

TOSHIBA

—
EXPERIENCE
THE FUTURE
—



Our vision is to be the No. 1 supplier in the UK of the most technologically-innovative, energy-efficient and environmentally-friendly heating and cooling solutions, combined with a first-class level of customer support.

We provide a number of key services to our customers, these include the following:

- **Spare Parts Availability** - Large stock, European warehouse based in the UK offering a 24-hour turnaround from point of order, including online parts availability check and ordering.
- **Pre-Sales Support** - Offering project support and assistance, equipment schedules, mechanical and electrical schematics and equipment selection.
- **Dedicated Training Sessions** - Training sessions are offered to our customers throughout the year and cover all elements from design and application, installation through to servicing and fault finding. The extensive programme can be delivered at one of our dedicated centres free of charge.
- **Controls** - Full support with an extensive range of standard control systems including bespoke controls and full site support functions to maximise efficiency.
- **Rewards Scheme** - The original and best scheme in the industry offering the most innovative customer reward scheme that sets the bar in terms of support.
- **Energy Efficient** - Industry leading SEER & SCOP figures on our range of equipment, and a commitment to continuous development of energy efficient sustainable solutions.
- **Warranty** - The only air conditioning manufacturer to offer a fully comprehensive warranty scheme, which emphasises our commitment to our customers and confidence in our equipment, with up to 7 years available with full labour content.
- **Technology** - Leading innovation by introducing reliable, innovative and cutting edge technology into our air conditioning systems.
- **24 Hour Helpline** - The only manufacturer in the UK to offer a 24 hour, 7 days per week, technical helpline where you can speak to a trained engineer for support as well as offering a full fault code text back service.
- **Support Tools** - We offer an extensive range of easily accessible support tools including smart phone apps and web based solutions.
- **Network** - A nationwide distribution network, providing easy access to Toshiba equipment, spare parts and services.
- **Technical Engineering Team** - An extensive range of site services available through our fully trained and highly experienced technical engineering team.
- **Carbon Neutral** - Toshiba are the only Carbon Neutral manufacturer of air conditioning products in the UK.
- **Leak Detection** - Toshiba provide the industry's only leak detection system capable of providing BREEAM points.

Warranty Schemes

All air conditioning products distributed by Toshiba Air Conditioning and supplied by Toshiba Carrier UK Limited to Toshiba T5 registered installers or Refcom (or equivalent) F-Gas registered installers, T7 approved partner or T7 enhanced warranty partner are warranted free from defects in manufacture, materials or workmanship for a period of:

5 years - Toshiba T5 registered installers or if installed by Refcom F-Gas registered installers

7 years - Toshiba T7 approved partner or Toshiba T7 enhanced warranty partner

from the date of delivery to the address specified by the Customer within the individual orders. In no event shall the warranty exceed 6 months from manufacture plus the relevant warranty periods above of 5 years or 7 years as applicable above under the terms of the individual order. The date of manufacture shall be determined by the serial number of the equipment in question. In cases where a complete unit is replaced, the replacement shall assume the remainder of the warranty period of the original unit or twelve months whichever is the longer.

Technical Services

Toshiba Air Conditioning offers a full and comprehensive technical service to our customers, starting with a 24/7 telephone technical response service. Enquiries are handled by trained technical engineers with "hands on" field experience of air conditioning systems enabling them to provide a vast knowledge of Toshiba air conditioning products.

Site Visits

Technical assistance for trouble shooting equipment on-site provides field support for the diagnostics of malfunctions of equipment which is either inside or outside of the Toshiba Warranty Period.

Health Check

The system health check provides field support to carry out a detailed health check for Toshiba VRF equipment, R22, R407C and R410A.

VRF Commissioning

The commissioning service provides field support services to commission Toshiba R410A VRF equipment. Please consult the "Toshiba Technical Services Price List" for more information.

Index

Toshiba Air Conditioning	5
Training Toshiba Professionals	6
Online Spare Parts	7
RAS Residential Air-to-Air	10
Seiya High-Wall Mounted Inverter Heat Pump	10
Seiya (E2) High-Wall Mounted Inverter Heat Pump	12
Shorai Edge High-Wall Mounted Inverter Heat Pump	14
Haori High-Wall Mounted Inverter Heat Pump	15
Daiseikai High-Wall Mounted Inverter Heat Pump	16
Bi-Flow Console Inverter Heat Pump	17
Multi-Split Outdoor Units	20
RAS Multi-Split Indoor Unit Compatibility Table	20
Multi-Split Seiya High-Wall Indoor Unit	22
Multi-Split Seiya (E2) High-Wall Indoor Unit	22
Multi-Split Shorai Edge High-Wall Indoor Unit	23
Multi-Split Haori High-Wall Indoor Unit	23
Multi-Split Daiseikai 9 High-Wall Indoor Unit	24
Multi-Split Cassette Indoor Unit	24
Multi-Split Ducted Indoor Unit	25
Multi-Split Bi-Flow Console Indoor Unit	25
RAV Digital Inverter and Super Digital Inverter Indoor Units	26
High-Wall Indoor Unit	28
Compact Cassette Indoor Unit	30
4-Way Cassette Indoor Unit	31
Ceiling Indoor Unit	33
Ducted Indoor Unit	35
Slim Ducted Indoor Unit	37
High-Static Ducted Indoor Unit	38
Floor-Mounted Cabinet Indoor Unit	39
Twin-Split High-Wall Indoor Unit	40
Twin-Split Compact Cassette Indoor Unit	42
Twin-Split 4-Way Cassette Indoor Unit	43
Twin-Split Ceiling Indoor Unit	45
Twin-Split Slim Ducted Indoor Unit	47
Twin-Split Ducted Indoor Unit	48
Twin-Split Floor-Mounted Cabinet Indoor Unit	50
Triple-Split High-Wall Indoor Unit	51
Triple-Split Compact Cassette Indoor Unit	53
Triple-Split 4-Way Cassette Indoor Unit	54
Triple-Split Ceiling Indoor Unit	55
Triple-Split Slim Ducted Indoor Unit	56
Triple-Split Ducted Indoor Unit	57
Triple-Split Floor-Mounted Cabinet Indoor Unit	58
Quad-Split High-Wall Indoor Unit	59
Quad-Split Compact Cassette Indoor Unit	60
Quad-Split 4-Way Cassette Indoor Unit	61
Quad-Split Ceiling Indoor Unit	62
Quad-Split Slim Ducted Indoor Unit	63
Quad-Split Ducted Indoor Unit	64
Quad-Split Floor-Mounted Cabinet Indoor Unit	65
Dimensions	66

High-Wall Indoor Unit	71
Smart Cassette Indoor Unit	72
Compact Cassette Indoor Unit	73
4-Way Cassette Indoor Unit	74
Ceiling Indoor Unit	76
Ducted Indoor Unit	78
Slim Ducted Indoor Unit	80
Floor-Mounted Cabinet Indoor Unit	81
Twin-Split High-Wall Indoor Unit	83
Twin-Split Smart Cassette Indoor Unit	85
Twin-Split Compact Cassette Indoor Unit	86
Twin-Split 4-Way Cassette Indoor Unit	87
Twin-Split Ceiling Indoor Unit	88
Twin-Split Slim Ducted Indoor Unit	89
Twin-Split Ducted Indoor Unit	90
Twin-Split Floor-Mounted Cabinet Indoor Unit	92
Triple-Split High-Wall Indoor Unit	93
Triple-Split Compact Cassette Indoor Unit	94
Triple-Split 4-Way Cassette Indoor Unit	95
Triple-Split Ceiling Indoor Unit	96
Triple-Split Slim Ducted Indoor Unit	97
Triple-Split Ducted Indoor Unit	98
Triple-Split Floor-Mounted Cabinet Indoor Unit	99
Quad-Split High-Wall Indoor Unit	100
Quad-Split Compact Cassette Indoor Unit	101
Quad-Split Ceiling Indoor Unit	102
Quad-Split Slim Ducted Indoor Unit	103
Dimensions	104
VRF Outdoor Units	109
Mini SMMS-e	113
Mini SMMS-e - VRF 2-Pipe Heat Pump Outdoor Unit/Single Fan VRF 2-Pipe Heat Pump Outdoor Unit	113
Dimensions	115
SMMS-u	118
SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit	119
Dimensions	131
SHRM-e	133
SHRM-e - VRF 3-Pipe Heat Recovery Outdoor Unit	133
SHRM-e - VRF 3-Pipe Heat Recovery High Efficiency Outdoor Unit	137
SHRM-e - VRF 3-Pipe Heat Recovery Flow Selector	139
Dimensions	140
VRF Indoor Units	144
VRF High-Wall Indoor Unit - 7 Series	145
VRF 4-Way Compact Cassette Indoor Unit	146
VRF 4-Way Cassette Indoor Unit	147
VRF 2-Way Cassette Indoor Unit	148
VRF 1-Way Cassette Indoor Unit	149
VRF Slim Ducted Indoor Unit	150

VRF Standard Ducted Indoor Unit.....	151
VRF High-Static Ducted Indoor Unit.....	152
VRF Vertical Ducted Indoor Unit	153
VRF Ceiling-Suspended Indoor Unit - 8 Series	154
VRF Concealed-Chassis Indoor Unit	155
VRF Floor-Mounted Console Indoor Unit	155
VRF Bi-Flow Console Indoor Unit	156
VRF Floor-Mounted Cabinet Indoor Unit.....	157
VRF Fresh Air Intake Indoor Unit	158
VRF High-Wall Indoor Unit - 7 Series	159
VRF Smart Cassette Indoor Unit.....	160
VRF 4-Way Compact Cassette Indoor Unit.....	161
VRF 4-Way Cassette Indoor Unit	162
VRF 2-Way Cassette Indoor Unit	163
VRF 1-Way Cassette Indoor Unit	164
VRF Slim Ducted Indoor Unit	165
VRF Standard Ducted Indoor Unit.....	166
VRF High-Static Ducted Indoor Unit.....	167
VRF Vertical Ducted Indoor Unit	168
VRF Ceiling-Suspended Indoor Unit - 8 Series	169
VRF Concealed-Chassis Indoor Unit	170
VRF Floor-Mounted Console Indoor Unit	170
VRF Bi-Flow Console Indoor Unit	171
VRF Floor-Mounted Cabinet Indoor Unit.....	172
VRF Fresh Air Intake Indoor Unit	173
VRF Hot Water Module Indoor Unit.....	174
VRF High Temperature Hot Water Module Indoor Unit	175
Air Handling Units Interface Panels.....	176
RBC-AHU1 Air Handling Unit Applications Digital Inverter - R32	176
RBC-AHU1 Air Handling Unit Applications Super Digital Inverter - R32	179
RBC-AHU1 Air Handling Unit Applications Digital Inverter - R410A.....	181
VRF Air Handling Unit Applications Single-Circuit DX Coils.....	182
VRF Air Handling Unit Applications Multi-Circuit DX Coils	185
Air Handling Unit 0-10 V BMS Control - Digital Inverter and Super Digital Inverter	190
Air Handling Unit 0-10 V BMS Control - SMMS-u	193
Air Curtains.....	194
VRF Air Curtains.....	194
Air Curtains Digital Inverter	195
Air-to-Air Heat Exchangers.....	196
Air-to-Air Heat Exchangers Standard Version	196
VRF Air-to-Air Heat Exchangers + DX Coil	197
VRF Air-to-Air Heat Exchangers + DX Coil + Humidifier	198
Estia Air-to-Water Heat Pumps.....	199
Estia All-In-One Air-to-Water Heat Pump - R32.....	203
Estia Air-to-Water Heat Pump - R32.....	206
Estia Air-to-Water Heat Pump - R410A	209
Estia Air-to-Water Heat Pump Powerful - R410A	211

Controls	213
The Local Network	214
Black Pear	214
Touch Screen Controller	215
BACnet	215
Windows Package	216
Smart Manager Controller	216
BMS Interfaces	217
LonWorks Gateway	217
Modbus Gateway	217
BMS Analogue/Modbus Individual or Group Interface	217
Remote Controllers For Use With RAV And VRF Indoor Units	218
Network Controls	222
Building Management Systems	222
Leak Detection and Containment - Panels	226
Leak Detection and Containment - Repeaters	227
Leak Detection and Containment - Detectors	228
Accessories	229
Accessories - Control Panels, Software, Infra-red and Wired Controllers	229
Accessories - Controls: Wired Controllers and Indoor Interfaces	231
Accessories - Controls: Indoor Interfaces	232
Accessories - Controls: Indoor Interfaces, Indoor Interface Leads and Interfaces	233
Accessories - Controls: Interfaces, Outdoor Interfaces	234
Accessories - Piping Kits: Condensate Pumps, Branch Joints and Headers	235
Accessories - Piping Kits: Y-Joints	236
Accessories - Miscellaneous: Coil Coatings and Case Sections	236
Accessories - Miscellaneous: Spigots, Pumps, Filters	237
Accessories - Miscellaneous: Filters, Heater Kits, Painted Finishes	238

The information shown in this Price List is based on the following data:

- Nominal capacities are based on NEMA - Cooling: indoor air temperature 27°C DB/19°C WB, outdoor air temperature 35°C DB/24°C WB. Heating: indoor air temperature 20°C DB, outdoor air temperature 7°C DB.
- UK capacities are based on the following conditions - Cooling: indoor air temperature 23°C DB/16°C WB, outdoor air temperature 29°C DB, 5 m or 7.5 m (dependent on mode) pipe run and high fan speed. Heating: indoor air temperature 20°C DB, outdoor air temperature -5°C DB/100% RH, 5 m or 7.5 m pipe run and high fan speed. Values are based on the maximum compressor output.
- The sound pressure levels are based on - Outdoor units at 1 m distance, indoor units at 1.5 m distance.
- The maximum run current is based on 230 V/1 phase/50 Hz or 380 V/3 phase+N/50 Hz.

IMPORTANT NOTICE

The Toshiba Air Conditioning Price List and information contained therein has been obtained from the manufacturer. The details are subject to change from time to time and availability of the products cannot always be assured at short notice. Toshiba Carrier UK Ltd shall bear no liability for information contained within this document and it is incumbent on purchasers to make enquiries prior to placing any order. Price list excludes Value Added Tax at the time of ruling and delivery charge.

The relevant terms contained within the Toshiba Carrier UK Ltd Terms of Sale and Installation (available on the following website: www.toshiba-aircon.co.uk) shall apply unless the purchaser has alternative signed terms of agreement with Toshiba Carrier UK Ltd.

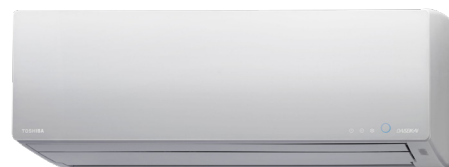
Toshiba Air Conditioning

It's What We Do

We provide an extensive range of air conditioning systems for a wide variety of residential, commercial and business environments. All of our products provide a cost-effective solution for heating and cooling of buildings and are engineered with energy efficiency and reliability in mind, complying with European Eco-Design guidelines. Our residential air conditioning products feature modern designs with energy savings that create a comfortable atmosphere.

Our commercial systems include advanced solutions to ensure the thermal comfort and flexibility of offices, hotels and industrial buildings, with environmental initiatives such as R22 replacement technology.

With the total energy consumption of many buildings increasing, it is important to achieve energy savings in the field of comfort heating and cooling. That's why we've put emphasis on the development of innovative solutions within our compressors, coil technology and hybrid inverter controls that result in the improvement of the air conditioning system in terms of both performance and operating efficiency offering the highest levels of user comfort, superior air flows and improved energy consumption.



Eurovent Certification certifies the performance ratings of air conditioning and refrigeration products according to European and international standards.

Toshiba's participation in the Eurovent program is a guarantee to its customers and users that our products will operate in accordance with the design specifications, that the data published and communicated are real and therefore the energy consumption and costs are correctly stated.



Reliable Solutions For The Commercial Market

Toshiba provides solutions for a wide range of sectors from large commercial offices, department stores, hospitals and laboratories through to smaller high street stores, food outlets, offices and server rooms. Our years of experience working with installers, retailers and specifiers have helped us to identify the challenges faced by our customers to develop bespoke solutions that exceed expectations.

"As a result of our extremely low failure rate, Toshiba offers an industry-first 7-year 'Comprehensive Warranty'."

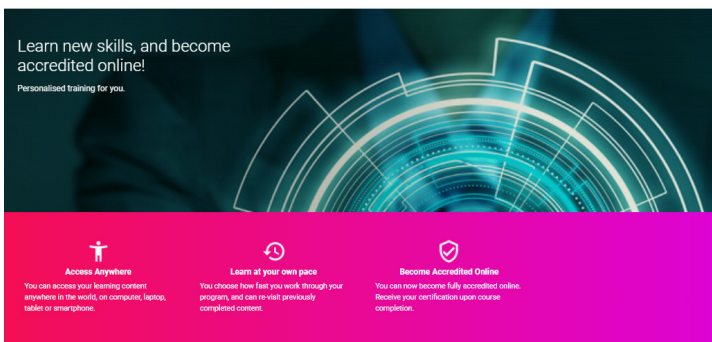
Training Toshiba Professionals

Toshiba Carrier UK Ltd is proud to be part of Carrier Corporation, a global group of companies built up of specialist industry leaders. Toshiba Air Conditioning is no exception. Toshiba is committed to ensuring that our customers receive the highest level of support and training to enable them to deliver technical excellence and expertise to the users of Toshiba air conditioners.

Our training programme contains ten primary courses, four of which are mandatory to comply with our warranty terms and conditions:

- Residential and light commercial (RAS/DI/SDI) - installation and service
- Commercial range (VRF) - installation and service
- Controls
- Refresher course (RAS/DI/SDI/VRF)
- Thermodynamics and basic air conditioning principles
- Basic practical air conditioning installation and fault finding
- Commercial range (VRF) - design and application
- Refrigerant leak detection systems
- Air-to-water systems (Estia)
- Understanding legislation and EUP Lot 10
- *Mandatory courses*

TOSHIBA

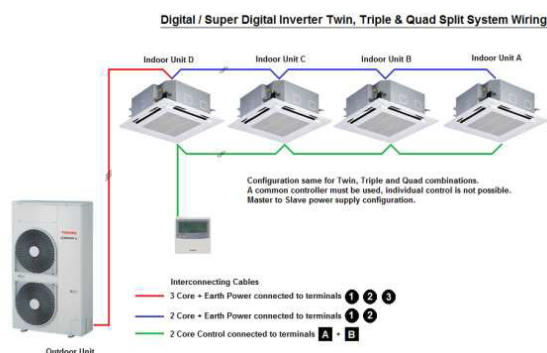


All of our training courses have been devised to ensure that we offer professionals the product and development training they require and deserve to deliver the highest possible standards. It also confirms our support to the industry in ensuring that high levels of professionalism are encouraged and maintained in our efforts to deliver excellence in all aspects of our supply chain. Delegates attending these courses receive electronic copies of the presentation material, course notes, a Technical HandBook Manual, certificate of achievement and personal Cardholder Identification Card valid for 3 years from date of registration.

Our courses are informative, beneficial and assist and enable professionals to deliver the right skills set required for the successful installation, service and maintenance of Toshiba air conditioners and applied products, and accordingly ensure the longevity of the equipment for the user. Delegates can register their interest in any course by simply contacting a local Toshiba Distributor or alternatively the Toshiba Training Team to discuss any requirements on:

Tel: **0870 843 0333**

or e-mail: **toshiba.training@toshiba-ac.com**



Training courses are conducted at our dedicated training facilities located in Leatherhead and Manchester. We are able to offer nine other training facilities located throughout the UK which are conducted by our distribution network. Each location has their own dedicated trainer to deliver the courses set out above.

Online Spare Parts

Meeting Your Needs

As a direct result of feedback we received from our customers both in the UK and across Europe we developed a single point of contact for our "Spare Parts Centre" covering all products produced and manufactured in Japan, Thailand and UK in one website with a straightforward search facility.

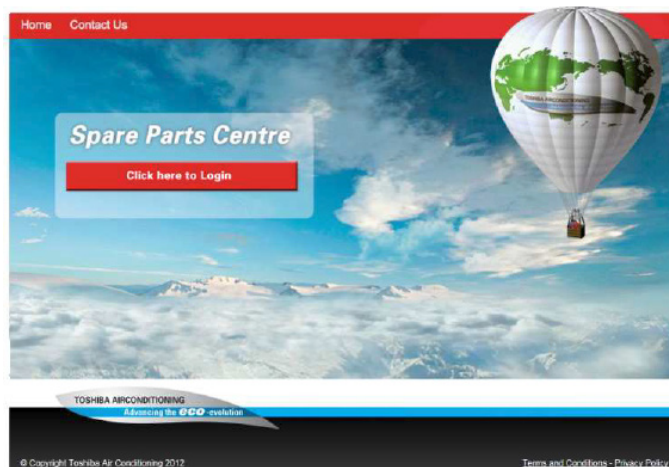
Features include:

- Search by model facility
- Full parts listing by model
- Exploded views in .pdf format
- Price and availability enquiry
- Option to place an order

The Toshiba Spare Parts Centre is accessed via:

www.toshiba-hvacspares.com

Simply register for secure access which is achieved using the website login page. Validated Toshiba customers receive a confirmation e-mail with attached user instructions typically within 24 hours of the application. We suggest and recommend that applicants use their e-mail address for the User Name.



Entirely scalable solutions

Toshiba Air Conditioning develops cutting-edge technologies and advances that benefit people everywhere by offering the ideal combination of comfort and ecologically-superior products for residential, light commercial and large building applications.

Toshiba Air Conditioning is the pioneer of inverter air conditioning technology which was developed in-house.

Superior manufacturing quality

Toshiba Air Conditioning's innovations ensure comprehensive building air conditioning solutions which have been subject to strict evaluation testing to guarantee world-class reliability.

Third party institute certifications for quality, safety and performance, guaranteed (TÜV, Eurovent, WEEE, RoHS, REACH, Intertek, NFPAC Certita, WPZ).



> RAS RESIDENTIAL AIR-TO-AIR

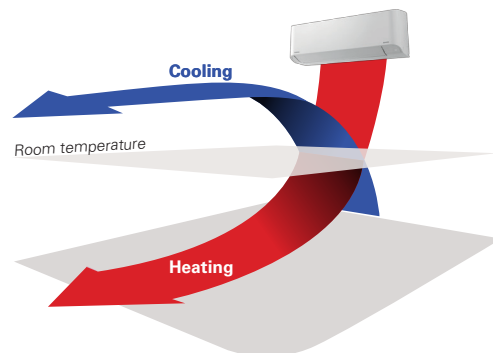
When technology meets comfort

> Innovation, efficiency, high reliability, energy savings, environmental respect ...

These are the powerful values at the heart of Toshiba's DNA. For over 50 years Toshiba has been providing its clients with the guaranteed accuracy and expertise of flawless Japanese quality. Technological, stylish, highly-efficient and environmentally-friendly, the Toshiba monosplit units proudly uphold the values rooted firmly in its name.

> **The development of the new and exclusive DC hybrid inverter system** has reaffirmed the ability to innovate and maintain technological leadership in a fast-growing market. But for Toshiba, innovation also means a strong commitment to international institutions that carefully evaluate the impact of new technologies on our environment. Toshiba combines technological development with care for future generations: the result is a range of extremely energy-efficient air conditioners, reducing greenhouse gas emissions at source.

Toshiba continues research into the development of PWM technology, which together with the traditional PAM control, allows total control of the system's performance and energy usage.



The new hybrid inverter features PAM (Pulse Amplitude Modulation) for the highest levels of power.



PWM (Pulse Width Modulation) for energy efficiency.

The future is now

> Energy efficiency by design

Toshiba products are designed to optimise energy performance at any time of year. This in turn reduces the amount of indirect CO₂ emissions generated by the electricity consumption.

> Lowest level refrigerant charge

Toshiba is committed to minimising the refrigerant charge of its products and has made this a key performance indicator for all new product developments.

> European F-GAS regulation

R32 is today the right alternative to R410A. The European F-gas regulation (517/2014) has been in force since 1 January 2015 and will progressively phase down the use of hydrofluorocarbons (HFCs) in the heating and cooling systems of the future. Toshiba already offers new heating and cooling systems operating with R32, which will be the alternative to R410A in the years ahead. The new R32 refrigerant ensures an ideal balance between energy-efficiency and respect for the environment. The quantities of HFCs that are placed on the market will be gradually reduced in a step-by-step approach, until they finally reach a minimum level by 2030.



HFC consumption related to tons of CO₂ equivalent





DAISEIKAI 9



SHORAI Edge



SEIYA



HAORI



CONSOLE



ADVANCED TECHNOLOGY AVAILABLE WITH R32 REFRIGERANT

TOSHIBA Home AC Control

Take complete control of your comfort with the Toshiba Home AC Control App. Simple to use on your smartphone or tablet, both at home and on the move. Fully-compatible, the adapter can be used with all Toshiba High-wall and Console units.





Seiya High-Wall Mounted Inverter Heat Pump

CODE		15		20		25		33		
Performance										
Indoor Unit		RAS-	B05J2KVG-E		B07J2KVG-E		B10J2KVG-E		B13J2KVG-E	
Outdoor Unit		RAS-	05J2AVG-E		07J2AVG-E		10J2AVG-E		13J2AVG-E	
Nominal	Cooling Capacity	kW	1.5		2.0		2.5		3.3	
	Heating Capacity	kW	2.0		2.5		3.2		3.6	
	EER/COP	W/W	4.05/4.26		3.77/3.91		3.25/3.72		3.00/3.91	
UK	Cooling Total/Sensible	kW	1.47/1.22		1.95/1.57		2.44/1.93		3.22/2.49	
	Heating	kW	1.18		1.60		2.03		2.20	
Cooling EN14825	Range Min. - Max.	kW	0.75 - 2.00		0.76 - 2.60		0.80 - 3.00		1.00 - 3.60	
	Power Input	kW	0.37		0.53		0.77		1.10	
	Pdesign	kW	1.5		2		2.5		3.3	
	SEER/Energy Efficiency Class		6.10/A++		6.10/A++		6.10/A++		6.10/A++	
	Seasonal Energy Consumption	kWh/a	86		115		143		189	
Heating EN14825	Range Min. - Max.	kW	0.90 - 3.00		0.92 - 3.30		1.00 - 3.90		1.10 - 4.50	
	Power Input	kW	0.47		0.64		0.86		0.92	
	Pdesign	kW	1.6		2.0		2.4		2.8	
	SCOP/Energy Efficiency Class		4.00/A+		4.00/A+		4.00/A+		4.00/A+	
	Seasonal Energy Consumption	kWh/a	560		699		839		980	

Indoor Data		RAS-	B05J2KVG-E	B07J2KVG-E	B10J2KVG-E	B13J2KVG-E
Air Flow	High - Low	l/s	145 - 65	148 - 65	153 - 67	172 - 73
	High - Low	m³/h	522 - 234	534 - 234	552 - 240	618 - 264
Sound	Pressure High - Low	dB(A)	37 - 19	38 - 20	39 - 21	42 - 21
	Power High - Low	dB(A)	52 - 34	53 - 35	54 - 36	56 - 36
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	9	9	9	9
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14
Remote controller			WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)

Outdoor Data		RAS-	05J2AVG-E	07J2AVG-E	10J2AVG-E	13J2AVG-E
Operating range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	1800 - 500	1800 - 500	1800 - 500	1980 - 550
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	48/50	48/50
	Power High Cooling/Heating	dB(A)	61/63	61/63	63/65	63/65
Unit	Height x Width x Depth	mm	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240
	Weight	kg	22	22	23	24
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Min.-Max. Length	m	2-15	2-15	2-15	2-15
	Maximum Height Difference	m	±12	±12	±12	±12
	Drain Port Connection	mm	16	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.4/15	0.4/15	0.43/15	0.46/15
	Additional Charge	g/m	0	0	0	0
Run Current	Maximum	A	2.40	3.25	4.20	5.50
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10

INDOOR RETAIL PRICE	£194	£205	£209	£214
OUTDOOR RETAIL PRICE	£458	£482	£492	£564
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£652	£687	£701	£778

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N105S-G	WiFi Control (model 24)	WiFi adapter	£129
RB-N106S-G	WiFi Control (model 05-18)	WiFi adapter and cable	£134



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Seiya High-Wall Mounted Inverter Heat Pump (continued)

CODE			42	50	65
Performance					
Indoor Unit		RAS-	B16J2KVG-E	18J2KVG-E	24J2KVG-E
Outdoor Unit		RAS-	16J2AVG-E	18J2AVG-E	24J2AVG-E
Nominal	Cooling Capacity	kW	4.2	5.0	6.5
	Heating Capacity	kW	5.0	5.4	7.0
	EER/COP	W/W	3.00/3.57	3.23/3.38	2.89/3.33
UK	Cooling Total/Sensible	kW	4.49/3.36	4.88/3.57	6.35/4.40
	Heating	kW	3.33	3.34	4.31
Cooling EN14825	Range Min. - Max.	kW	1.20 - 4.7	1.3 - 5.5	1.6 - 7.2
	Power Input	kW	1.40	1.55	2.25
	Pdesign	kW	4.2	5.0	6.5
	SEER/Energy Efficiency Class		6.10/A++	6.30/A++	6.10/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	241	278	373
	Range Min. - Max.	kW	1.30 - 6.00	1.0 - 6.0	1.6 - 8.1
	Power Input	kW	1.40	1.60	2.10
	Pdesign	kW	3.6	3.8	5.4
			4.00/A+	4.00/A+	4.00/A+
Seasonal Energy Consumption		kWh/a	1259	1329	1890

Indoor Data		RAS-	B16J2KVG-E	18J2KVG-E	24J2KVG-E
Air Flow	High - Low	l/s	213 - 92	233 - 133	298 - 185
	High - Low	m³/h	768 - 330	840 - 480	1074 - 666
Sound	Pressure High - Low	dB(A)	43 - 22	48 - 32	48 - 35
	Power High - Low	dB(A)	58 - 37	63 - 47	63 - 50
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
	Weight	kg	10	9	14
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote controller			WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)

Outdoor Data		RAS-	16J2AVG-E	18J2AVG-E	24J2AVG-E
Operating range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	2160 - 600	2160 - 600	2220 - 617
Sound	Pressure High Cooling/Heating	dB(A)	49/51	50/52	55/55
	Power High Cooling/Heating	dB(A)	64/66	65/67	70/70
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	30	34	38
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	2-20
	Maximum Height Difference	m	±12	±12	±12
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.62/15	0.88/15	1.08/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	7.19	7.50	10.55
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-16

INDOOR RETAIL PRICE	£280	£336	£403
OUTDOOR RETAIL PRICE	£794	£953	£1,142
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£1,074	£1,289	£1,545

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N105S-G	WIFI Control (model 24)	WiFi adapter	£129
RB-N106S-G	WIFI Control (model 05-18)	WiFi adapter and cable	£134



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Seiya (E2) High-Wall Mounted Inverter Heat Pump

CODE			15	20	25	33
Performance						
Indoor Unit		RAS-	B05E2KVG-E	B07E2KVG-E	B10E2KVG-E	B13E2KVG-E
Outdoor Unit		RAS-	05E2AVG-E	07E2AVG-E	10E2AVG-E	13E2AVG-E
Nominal	Cooling Capacity	kW	1.5	2.0	2.5	3.3
	Heating Capacity	kW	2.0	2.5	3.2	3.6
	EER/COP	W/W	4.17/4.26	3.77/3.91	3.57/3.72	3.00/3.91
UK	Cooling Total/Sensible	kW	1.47/1.22	1.95/1.57	2.44/1.93	3.22/2.49
	Heating	kW	1.18	1.60	2.03	2.20
Cooling EN14825	Range Min. - Max.	kW	0.75 - 2.00	0.76 - 2.60	0.80 - 3.00	1.20 - 3.60
	Power Input	kW	0.36	0.53	0.70	1.10
	Pdesign	kW	1.5	2.0	2.5	3.3
	SEER/Energy Efficiency Class		6.90/A++	6.90/A++	7.00/A++	7.00/A++
	Seasonal Energy Consumption	kWh/a	=P13	101	125	165
Heating EN14825	Range Min. - Max.	kW	0.8 - 3.00	0.82 - 3.30	0.95 - 3.90	0.97 - 4.50
	Power Input	kW	0.47	0.64	0.86	0.92
	Pdesign	kW	1.6	2.0	2.4	2.7
	SCOP/Energy Efficiency Class		4.60/A++	4.60/A++	4.60/A++	4.60/A++
	Seasonal Energy Consumption	kWh/a	487	609	730	822
Indoor Data		RAS-	B05E2KVG-E	B07E2KVG-E	B10E2KVG-E	B13E2KVG-E
Air Flow	High - Low	l/s	34 - 55	140 - 58	144 - 64	158 - 72
	High - Low	m³/h	48 - 199	500 - 209	510 - 233	560 - 259
Sound	Pressure High - Low	dB(A)	37 - 19	38 - 19	39 - 20	42 - 20
	Power High	dB(A)	50	51	52	54
Unit	Height x Width x Depth	mm	288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	288 x 770 x 225
	Weight	kg	9	9	9	9
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14
Remote controller			WH-TG01NE	WH-TG01NE	WH-TG01NE	WH-TG01NE
Outdoor Data		RAS-	05E2AVG-E	07E2AVG-E	10E2AVG-E	13E2AVG-E
Operating range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	1690 - 470	1800 - 500	1800 - 500	1980 - 550
Sound	Pressure High Cooling/Heating/Silent	dB(A)	47/48/42	47/49/42	47/49/43	48/49/43
	Power High Cooling/Heating/Silent	dB(A)	60/61/55	60/62/55	60/62/56	61/62/56
Unit	Height x Width x Depth	mm	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240
	Weight	kg	21	21	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Min.-Max. Length	m	2-15	2-15	2-15	2-15
	Maximum Height Difference	m	±12	±12	±12	±12
	Drain Port Connection	mm	16	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.34/15	0.34/15	0.49/15	0.54/15
	Additional Charge	g/m	0	0	0	0
Run Current	Maximum	A	-/*	-/*	-/*	-/*
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10
* Waiting for published data.						
INDOOR RETAIL PRICE			£207	£217	£222	£230
OUTDOOR RETAIL PRICE			£473	£497	£508	£581
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£680	£714	£730	£811

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N105S-G	WIFI Control (model 24)	WiFi adapter	£129
RB-N106S-G	WIFI Control (model 05-18)	WiFi adapter and cable	£134



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Seiya (E2) High-Wall Mounted Inverter Heat Pump (continued)

CODE			42	50	65
Performance					
Indoor Unit		RAS-	B16E2KVG-E	18E2KVG-E	24E2KVG-E
Outdoor Unit		RAS-	16E2AVG-E	18E2AVG-E	24E2AVG-E
Nominal	Cooling Capacity	kW	4.2	5.0	6.5
	Heating Capacity	kW	5.0	5.4	7.0
	EER/COP	W/W	3.31/3.73	3.33/3.60	2.89/3.33
UK	Cooling Total/Sensible	kW	4.49/3.36	4.88/3.57	6.35/4.40
	Heating	kW	3.33	3.34	4.31
Cooling EN14825	Range Min. - Max.	kW	1.40 - 4.70	1.45 - 5.50	1.7 - 7.2
	Power Input	kW	1.27	1.50	2.25
	Pdesign	kW	4.2	5.0	6.5
	SEER/Energy Efficiency Class		7.00/A++	7.00/A++	6.90/A++
	Seasonal Energy Consumption	kWh/a	210	250	330
Heating EN14825	Range Min. - Max.	kW	1.30 - 6.00	1.35 - 6.00	1.5 - 8.1
	Power Input	kW	1.34	1.50	2.10
	Pdesign	kW	3.6	3.8	5.4
	SCOP/Energy Efficiency Class		4.60/A++	4.40/A+	4.30/A+
	Seasonal Energy Consumption	kWh/a	1095	1209	1757
Indoor Data					
Air Flow	High - Low	l/s	213 - 92	233 - 133	298 - 185
	High - Low	m³/h	760 - 330	840 - 480	1070 - 666
Sound	Pressure High - Low	dB(A)	43 - 22	48 - 26	48 - 29
	Power High	dB(A)	56	60	61
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320x1050x250
	Weight	kg	9	9	15
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote controller			WH-TG01NE	WH-TG01NE	WH-TG01NE
Outdoor Data					
Operating range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	2160 - 600	2160 - 600	2220 - 617
Sound	Pressure High Cooling/Heating/Silent	dB(A)	50/51/43	50/51/44	54/54/49
	Power High Cooling/Heating/Silent	dB(A)	63/64/59	63/64/59	67/67/62
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	30	34	38
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	2-20
	Maximum Height Difference	m	±12	±12	±12
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.68/15	0.93/15	1.18/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	-/*	-/*	10.60
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-16
* Waiting for published data.					
INDOOR RETAIL PRICE			£281	£338	£405
OUTDOOR RETAIL PRICE			£835	£1,010	£1,214
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£1,116	£1,348	£1,619

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N105S-G	WiFi Control (model 24)	WiFi adapter	£129
RB-N106S-G	WiFi Control (model 05-18)	WiFi adapter and cable	£134



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides

SHORAI Edge



Shorai Edge High-Wall Mounted Inverter Heat Pump

CODE			25	35	46	50	61	70
Performance								
Indoor Unit		RAS-	B10J2KVSG-E	B13J2KVSG-E	B16J2KVSG-E	18J2KVSG-E	B22J2KVSG-E	B24J2KVSG-E
Outdoor Unit		RAS-	10J2AVSG-E1	13J2AVSG-E1	16J2AVSG-E1	18J2AVSG-E	22J2AVSG-E	24J2AVSG-E
Nominal	Cooling Capacity	kW	2.5	3.5	4.6	5.0	6.1	7.0
	Heating Capacity	kW	3.2	4.2	5.5	6.0	7.0	8.0
	EER/COP	W/W	4.63/4.57	3.89/3.89	3.41/3.62	3.52/3.77	3.07/3.72	3.11/3.40
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.49/3.56	4.88/3.57	5.96/4.24	6.84/4.71
	Heating	kW	2.05	2.61	3.59	3.83	3.98	5.27
Cooling EN14825	Range Min. - Max.	kW	0.89 - 3.20	1.00 - 4.10	1.20 - 5.30	1.20 - 6.00	1.39 - 6.70	1.70 - 7.70
	Power Input	kW	0.54	0.90	1.35	1.42	1.99	2.25
	Pdesign	kW	2.5	3.5	4.6	5.0	6.1	7.0
Heating EN14825	SEER/Energy Efficiency Class		8.60/A+++	8.60/A+++	7.80/A++	7.80/A++	7.30/A++	6.30/A++
	Seasonal Energy Consumption	kWh/a	102	142	206	224	292	389
	Range Min. - Max.	kW	0.90 - 4.80	1.00 - 5.30	1.10 - 6.50	1.10 - 6.50	1.15 - 7.50	1.70 - 8.80
	Power Input	kW	0.70	1.08	1.52	1.59	1.88	2.35
	Pdesign	kW	2.5	3.2	4.0	4.3	4.7	6.3
	SCOP/Energy Efficiency Class		5.10/A+++	5.10/A+++	4.60/A++	4.60/A++	4.60/A++	4.10/A+
	Seasonal Energy Consumption	kWh/a	686	878	1217	1309	1430	2149

Indoor Data		RAS-	B10J2KVSG-E	B13J2KVSG-E	B16J2KVSG-E	B18J2KVSG-E	B22J2KVSG-E	B24J2KVSG-E
Air Flow	High - Low	l/s	183 - 86	203 - 95	213 - 100	274 - 158	299 - 191	316 - 199
	High - Low	m³/h	660 - 312	732 - 342	768 - 360	990 - 570	1,080 - 690	1140 - 720
Sound	Pressure High - Low	dB(A)	40 - 19	43 - 19	44 - 22	44 - 26	46 - 27	48 - 28
	Power High - Low	dB(A)	55 - 34	58 - 34	59 - 37	59 - 41	61 - 42	63 - 43
Unit	Height x Width x Depth	mm	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245
	Weight	kg	10	10	10	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14	16/14
Remote Controller			WH-TA15PE	WH-TA15PE	WH-TA15PE	WH-TA12PE	WH-TA12PE	WH-TA12PE

Outdoor Data		RAS-	10J2AVSG-E1	13J2AVSG-E1	16J2AVSG-E1	18J2AVSG-E	22J2AVSG-E	24J2AVSG-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	1890 - 524	1950 - 540	2040 - 566	2076 - 576	2184 - 607	2916 - 810
Sound	Pressure High Cooling/Heating	dB(A)	44/46	46/48	48/50	48/50	49/51	50/52
	Power High Cooling/Heating	dB(A)	57/59	59/61	61/63	61/63	62/64	63/65
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300
	Weight	kg	26	30	33	34	34	42
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	2-20	2-20	2-20	2-25
	Maximum Height Difference	m	±12	±12	±12	±12	±12	±15
	Drain Port Connection	mm	16	16	16	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.55/15	0.8/15	0.8/15	1.1/15	1.1/15	1.14/15
	Additional Charge	g/m	20	20	20	20	20	20
Run Current	Maximum	A	3.75	5.35	7.55	8.35	9.11	11.16
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16	220-240/1/50-16	220-240/1/50-16

INDOOR RETAIL PRICE	£365	£384	£420	£490	£506	£559
OUTDOOR RETAIL PRICE	£700	£868	£1,063	£1,079	£1,201	£1,406
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£1,065	£1,252	£1,483	£1,569	£1,707	£1,965

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N105S-G	WIFI Control (model 10-24)	WiFi adapter	£129



Wall installation



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides



Anti-dust pre-filter



Toshiba IAQ filter



Haori High-Wall Mounted Inverter Heat Pump

CODE			25	35	46
Performance					
Indoor Unit		RAS-	B10N4KVRG-E	B13N4KVRG-E	B16N4KVRG-E
Outdoor Unit		RAS-	10J2AVSG-E1	13J2AVSG-E1	16J2AVSG-E1
Nominal	Cooling Capacity	kW	2.5	3.5	4.6
	Heating Capacity	kW	3.2	4.2	5.5
	EER/COP	W/W	4.63/4.32	4.38/3.89	3.41/3.62
UK	Cooling Total/Sensible	kW	2.44/1.93	3.42/2.64	4.49/3.42
	Heating	kW	1.86	2.54	3.37
Cooling EN14825	Range Min. - Max.	kW	0.89 - 3.20	1.00 - 4.10	1.20 - 5.30
	Power Input	kW	0.54	0.80	1.35
	Pdesign	kW	2.5	3.5	4.6
	SEER/Energy Efficiency Class		8.60/A+++	8.60/A+++	7.80/A++
	Seasonal Energy Consumption	kWh/a	102	142	206
Heating EN14825	Range Min. - Max.	kW	0.90 - 4.70	1.00 - 5.30	1.10 - 6.30
	Power Input	kW	0.74	1.08	1.52
	Pdesign	kW	2.5	3.2	4.0
	SCOP/Energy Efficiency Class		5.10/A+++	5.10/A+++	4.60/A++
	Seasonal Energy Consumption	kWh/a	684	876	1214

Indoor Data		RAS-	B10N4KVRG-E	B13N4KVRG-E	B16N4KVRG-E
Air Flow	High - Low	l/s	169 - 83	189 - 89	186 - 83
	High - Low	m³/h	610 - 300	680 - 320	730 - 340
Sound	Pressure High - Low	dB(A)	41 - 19	43 - 19	45 - 22
	Power High - Low	dB(A)	55 - 34	57 - 34	59 - 37
Unit	Height x Width x Depth	mm	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210
	Weight	kg	11	11	12
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote Controller			WH-UA01UE	WH-UA01UE	WH-UA01UE

Outdoor Data		RAS-	10J2AVSG-E1	13J2AVSG-E1	16J2AVSG-E1
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	1890 - 524	1950 - 540	2040 - 566
Sound	Pressure High Cooling/Heating	dB(A)	44/46	46/48	48/50
	Power High Cooling/Heating	dB(A)	57/59	59/61	61/63
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	26	30	33
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	2-20
	Maximum Height Difference	m	±12	±12	±12
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.55/15	0.8/15	0.8/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	3.25	4.80	6.75
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16

INDOOR RETAIL PRICE	£522	£571	£641
OUTDOOR RETAIL PRICE	£700	£868	£1,063
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£1,222	£1,439	£1,704

Accessories

RB-I4101-E	Fabric Cover Kit (supplied loose)		Fabric Dark Grey	£62
RB-I4102-E	Fabric Cover Kit (supplied loose)		Fabric Light Grey	£62
RB-I4103-E	Fabric Cover Kit (supplied loose)		Fabric Bluish Grey	£78
RB-I4104-E	Fabric Cover Kit (supplied loose)		Fabric Grey Beige	£78
RB-I4105-E	Fabric Cover Kit (supplied loose)		Fabric Dark Brown	£78
RB-I4106-E	Fabric Cover Kit (supplied loose)		Fabric Emerald Blue	£78



Wall installation



Self-cleaning



Automatic restart



Hi-power



Single-split



Remote control included



Dry function



ECO logic



Anti-dust pre-filter



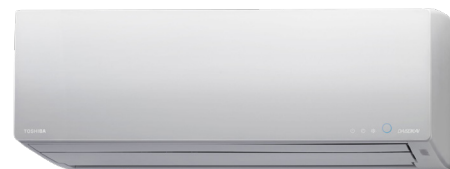
Auto-diagnosis



Drain connection both sides



Plasma air purifier (Ag+)



Daiseikai High-Wall Mounted Inverter Heat Pump

CODE			25	35	45
Performance					
Indoor Unit		RAS-	10PKVPG-E	13PKVPG-E	16PKVPG-E
Outdoor Unit		RAS-	10PAVPG-E	13PAVPG-E	16PAVPG-E
Nominal	Cooling Capacity	kW	2.5	3.5	4.5
	Heating Capacity	kW	3.2	4.0	4.5
	EER/COP	W/W	5.56/5.33	4.67/5.00	4.17/4.01
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.40/3.56
	Heating	kW	1.90	2.51	3.43
Cooling EN14825	Range Min. - Max.	kW	0.80 - 3.50	0.90 - 4.10	0.90 - 5.10
	Power Input	kW	0.45	0.75	1.08
	Pdesign	kW	2.5	3.5	4.5
	SEER/Energy Efficiency Class		10.60/A+++	9.50/A+++	8.50/A+++
Heating EN14825	Seasonal Energy Consumption	kWh/a	83	129	185
	Range Min. - Max.	kW	0.70 - 5.80	0.80 - 6.30	0.80 - 6.80
	Power Input	kW	0.60	.80	1.37
	Pdesign	kW	3.0	3.6	4.5
	SCOP/Energy Efficiency Class		5.20/A+++	5.10/A+++	4.60/A++
	Seasonal Energy Consumption	kWh/a	807	988	1369
Indoor Data					
Air Flow	High - Low	l/s	200 - 83	200 - 83	206 - 86
	High - Low	m³/h	720 - 300	720 - 300	740 - 310
Sound	Pressure High - Low	dB(A)	44 - 20	45 - 20	46 - 22
	Power High - Low	dB(A)	58 - 35	60 - 35	60 - 37
Unit	Height x Width x Depth	mm	293 x 851 x 270	293 x 851 x 270	293 x 851 x 270
	Weight	kg	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote Controller			WH-TA01LE (Infra-Red)	WH-TA01LE (Infra-Red)	WH-TA01LE (Infra-Red)
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	2160 - 600	2160 - 600	2160 - 600
Sound	Pressure High Cooling/Heating/Silent	dB(A)	46/47/42	48/50/43	49/50/44
	Power High Cooling/Heating/Silent	dB(A)	61/62/57	63/65/58	64/65/59
Unit	Height x Width x Depth	mm	630 x 800 x 300	630 x 800 x 300	630 x 800 x 300
	Weight	kg	38	38	38
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-25	2-25	2-25
	Maximum Height Difference	m	±10	±10	±10
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	1.0/15	1.0/15	1.0/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	3.40	4.01	6.44
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16
INDOOR RETAIL PRICE			£534	£549	£573
OUTDOOR RETAIL PRICE			£1,217	£1,292	£1,653
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£1,751	£1,841	£2,226

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N105S-G	WiFi Control (model 10-16)	WiFi adapter	£129



-  Wall installation
-  Self-cleaning
-  Automatic restart
-  Hi-power
-  Auto-diagnosis
-  Anti-dust pre-filter
-  Toshiba IAQ filter
-  Single-split
-  Remote control included
-  Dry function
-  ECO logic
-  Drain connection both sides
-  Plasma air purifier (Ag+)
-  Ionizer



Bi-Flow Console Inverter Heat Pump

CODE			25	35	50
Performance					
Indoor Unit		RAS-	B10J2FVG-E	B13J2FVG-E	B18J2FVG-E
Outdoor Unit		RAS-	10J2AVSG-E1	13J2AVSG-E1	18J2AVSG-E
Nominal	Cooling Capacity	kW	2.5	3.5	5.0
	Heating Capacity	kW	3.2	4.2	6.0
	EER/COP	W/W	4.24/3.90	4.02/3.31	2.98/2.93
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.40/3.56
	Heating	kW	1.90	2.51	3.43
Cooling EN14825	Range Min. - Max.	kW	0.95 - 3.2	1.05 - 4.1	1.2 - 5.6
	Power Input	kW	0.59	0.87	1.68
	Pdesign	kW	2.5	3.5	5.0
	SEER/Energy Efficiency Class		7.20/A++	7.00/A++	6.80/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	121	174	257
	Range Min. - Max.	kW	0.85 - 4.40	1.0 - 5.0	1.3 - 6.3
	Power Input	kW	0.82	1.27	2.05
	Pdesign	kW	2.5	3.0	4.0
SCOP/Energy Efficiency Class			4.70/A++	4.70/A++	4.60/A++
Seasonal Energy Consumption		kWh/a	744	893	1217
Indoor Data					
Air Flow	High - Low	l/s	136 - 71	153 - 75	183 - 101
	High - Low	m³/h	492 - 258	552 - 270	660 - 366
Sound	Pressure High - Low	dB(A)	39 - 23	40 - 24	47 - 31
	Power High - Low	dB(A)	54 - 38	55 - 39	61 - 46
Unit	Height x Width x Depth	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
	Weight	kg	16	16	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote controller			WH-TA12LE	WH-TA12LE	WH-TA12LE
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Air Flow	High	m³/h - l/s	1890 - 524	1950 - 540	2076 - 576
Sound	Pressure High Cooling/Heating/Silent	dB(A)	45/47/38	47/49/40	49/51/43
	Power High Cooling/Heating/Silent	dB(A)	58/60/51	60/62/53	62/64/56
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	26	30	34
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	2-20
	Maximum Height Difference	m	±12	±12	±12
	Drain Port Connection	mm	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.55/15	0.80/15	1.1/15
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	3.97	5.22	8.05
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16
INDOOR RETAIL PRICE			£688	£751	£833
OUTDOOR RETAIL PRICE			£700	£868	£1,079
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£1,388	£1,619	£1,912
Accessories					
RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)			£70
RB-N106S-G	WiFi Control (model 10-18)	WiFi adapter and cable			£134
RB-I301-E	Leak Detection	Leak detection sensor kit			£173



Floor-mounted bi-flow



Self-cleaning



Automatic restart



Hi-power



Auto-diagnosis



Anti-dust pre-filter



Single-split



Remote control included



Dry function



ECO logic



Drain connection both sides

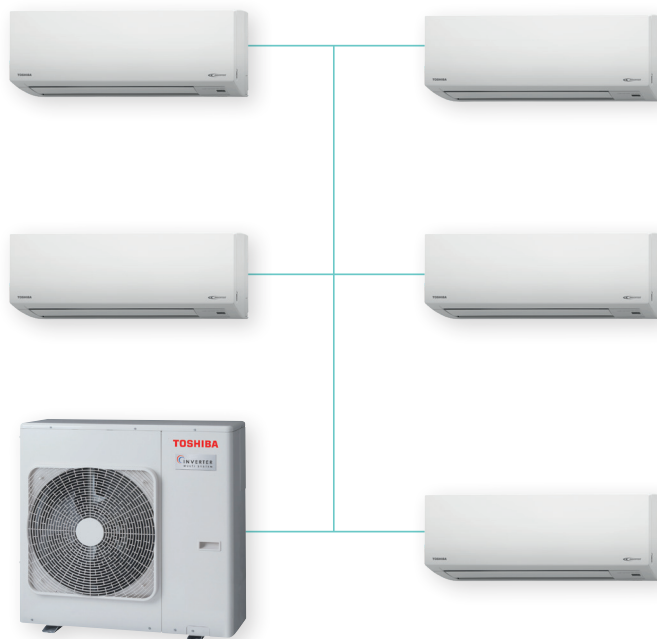


Toshiba IAQ filter

> MULTI-SPLIT INVERTER R32

Comfort and flexibility

- Toshiba inverter multi-split systems feature higher standards of indoor air quality, sound levels and environmental awareness. Special attention has been dedicated to night-time comfort, with the improvement of the silent operation mode, available in indoor units.
- One outdoor unit can serve up to five indoor units for exceptional flexibility and reliability. Toshiba inverter multi-split system outdoor units are lightweight and compact. Just one outdoor unit takes up little space on a wall or in a yard. It keeps the exterior of buildings neat with quieter operation. Choose from four types of indoor units, High-Wall, Ducted, Compact 4-Way Cassette and Console type to suit any application.



High-quality and savings

- Toshiba high-quality multi-split systems contribute to reducing drastically operating costs and increasing energy efficiency. The multi-split outdoor unit achieves efficiency in partial load conditions where the Toshiba inverters deliver their best performance. Toshiba's new super-efficient DC twin-rotary compressor enables top-class performance at low energy consumption (SEER up to 6.90 and SCOP up to 4.60). With this efficient unit, operating costs decrease dramatically, compared to other multi-split systems.
- Toshiba solutions are studied and verified in every tiny element and are recognised universally by air conditioning professionals for their total reliability. In fact, Toshiba quality has always been a priority both for today and into the future. The quality of Toshiba products will continue to differentiate us from other manufacturers.



Fast and precise temperature management, with Toshiba twin-rotary inverter compressors.

> MULTI-SPLIT INVERTER R32

Luxury through technology in RAS multi-split inverter systems

- From two to five rooms with this high-efficiency product.
- Just one outdoor unit can serve up to five indoor rooms.
- Wide choice of internal units: High-Walls, Cassettes, Duct-type and/or Console.
- Compressor DC twin-rotary throughout the whole range.
- Large operating range down to -20°C in heating mode and up to $+46^{\circ}\text{C}$ in cooling.
- Up to 80 metres of frigorific connections for any installation type.
- Full line-up available with R32.

Space-saving and silent

- Toshiba multi-split inverter system outdoor units are lightweight and compact. Just one outdoor unit takes up little space on a wall or in a yard. It keeps the exterior of buildings looking neat and offers quiet operating noise levels.

> INDOOR UNITS



Indoor Unit
DAISEIKAI 9
SHORAI EDGE
SEIYA
HAORI

CONSOLE
DUCT
COMPACT CASSETTE

> OUTDOOR UNITS



R32
RAS-2M10U2AVG-E
RAS-2M14U2AVG-E
RAS-2M18U2AVG-E
RAS-3M18U2AVG-E

R32
RAS-3M26U2AVG-E
RAS-4M27U2AVG-E
RAS-5M34U2AVG-E

> CONTROLS



Wireless remote controls

Weekly remote control optional

Wired remote control (Cassette and Duct only)



MAX EFFICIENCY



SEER 6.90

CAPACITY



4 kW > 10 kW

OPERATION



$-20^{\circ}\text{C} > +46^{\circ}\text{C}$

TOSHIBA



Multi-Split Outdoor Units

CODE			30	40	50	50
Performance						
Outdoor Unit		RAS-	2M10U2AVG-E	2M14U2AVG-E	2M18U2AVG-E	3M18U2AVG-E
Capacity Code	2 x Indoor Connection	Min.-Max.	10-20	10-26	10-32	10-32
	3+ Indoor Connection	Min.-Max.	-	-	-	10-36
Indoor Units Connected		Min.-Max.	2-2	2-2	2-2	2-3
Nominal	Cooling Capacity	kW	3.3	4.0	5.2	5.2
	Heating Capacity	kW	4.0	4.4	5.6	6.8
Cooling EN14825	EER/COP	W/W	4.35/4.94	4.35/4.94	3.88/4.71	4.44/4.30
	Range Min. - Max.	kW	1.0-3.9	1.6 - 4.9	1.7 - 6.2	2.4 - 6.5
	Power Input	kW	0.76	0.92	1.34	1.17
	Pdesign	kW	3.3	4.0	5.2	5.2
	SEER/Energy Efficiency Class		6.73/A++	6.73/A++	6.98/A++	6.80/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	172	208	261	268
	Range Min. - Max.	kW	1.0-4.9	1.30 - 5.20	1.30 - 7.50	1.90 - 8.00
	Power Input	kW	0.81	0.89	1.19	1.58
	Pdesign	kW	2.7	3.1	3.2	3.5
	SCOP/Energy Efficiency Class		4.60/A++	4.60/A++	4.63/A++	4.60/A++
Seasonal Energy Consumption		kWh/a	822	943	967	1065
Outdoor Data						
Operating Range		RAS-	2M10U2AVG-E	2M14U2AVG-E	2M18U2AVG-E	3M18U2AVG-E
Cooling/Heating		°C	-10 to 46/-20 to 24	-10 to 46/-20 to 24	-10 to 46/-20 to 24	-10 to 46/-20 to 24
Air Flow	High	m³/h - l/s	1863 - 517	1863 - 517	2107 - 585	2178 - 605
Sound	Pressure High	dB(A)	46	46	50	50
	Power High	dB(A)	59	59	63	63
Unit	Height x Width x Depth	mm	630 x 800 x 300	630 x 800 x 300	630 x 800 x 300	630 x 800 x 300
	Weight	kg	38	43	45	46
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 x 2 - 1/4 x 2	3/8 x 2 - 1/4 x 2	3/8 x 2 - 1/4 x 2	3/8 x 2 + 1/2 x 1 - 1/4 x 3
	Min.-Max. Length	m	2-20	2-30	2-30	2-50
	Maximum Pipe Length Per Unit	m	15	20	20	25
	Maximum Height Difference	m	10	10	10	10
	Drain Port Connection	mm	16	16	16	16
Refrigerant R32	Base Charge/Chargeless Length	kg/m	0.85/20	1.02/30	1.02/30	1.05/50
	Additional Charge	g/m	0	0	0	0
Run Current	Maximum	A	4.17	4.87	6.96	8.79
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16
OUTDOOR RETAIL PRICE			£1,010	£1,030	£1,133	£1,605

RAS Multi-Split Indoor Unit Compatibility Table

RAS Indoor Model	Cooling kW	Heating kW	SEIYA	SEIYA (E2)	SHORAI EDGE	HAORI	DAISEIKAI	CONSOLE	CASSETTE	DUCTED
05	1.5	2.0	●	●	-	-	-	-	-	-
07	2.0	2.7	●	●	-	-	-	-	-	●
10	2.7	4.0	●	●	●	●	●	●	●	●
13	3.7	5.0	●	●	●	●	●	●	●	●
16	4.5	5.5	●	●	●	●	●	-	●	●
18	5.0	6.0	-	-	-	-	-	●	-	-
22	6.0	7.0	-	-	●	-	-	-	-	●
24	7.1	8.1	-	-	●	-	-	-	-	●

Outdoor Unit	Capacity	Indoor Unit	05	07	10	13	16	18	22	24
		Min.-Max.	1.5 kW	2.0 kW	2.7 kW	3.7 kW	4.5 kW	5.0 kW	6.0 kW	7.1 kW
RAS-2M10U2AVG-E	3.3 kW	2-2	●	●	●	-	-	-	-	-
RAS-2M14U2AVG-E	4.0 kW	2-2	●	●	●	●	-	-	-	-
RAS-2M18U2AVG-E	5.2 kW	2-2	●	●	●	●	●	-	-	-
RAS-3M18U2AVG-E	5.2 kW	2-3	●	●	●	●	●	-	-	-
RAS-3M26U2AVG-E	7.5 kW	2-3	●	●	●	●	●	●	●	●
RAS-4M27U2AVG-E	8.0 kW	2-4	●	●	●	●	●	●	●	●
RAS-5M34U2AVG-E	10.0 kW	2-5	●	●	●	●	●	●	●	●

● Connectable



RAS

Multi-Split Outdoor Units (continued)

CODE			75	80	100
Performance					
Outdoor Unit		RAS-	3M26U2AVG-E	4M27U2AVG-E	5M34U2AVG-E
Capacity Code	2 x Indoor Connection	Min.-Max.	10-42	10-42	10-48
	3+ Indoor Connection	Min.-Max.	10-54	10-54	10-68
Indoor Units Connected		Min.-Max.	2-3	2-4	2-5
Nominal	Cooling Capacity	kW	7.5	8.0	10.0
	Heating Capacity	kW	9.0	9.0	12.0
Cooling EN14825	EER/COP	W/W	3.75/4.09	3.5/4.67	3.36/4.24
	Range Min. - Max.	kW	4.1 - 9.0	4.2 - 9.3	3.7 - 11.0
	Power Input	kW	2	2.29	2.98
	Pdesign	kW	7.5	8.0	10.0
	SEER/Energy Efficiency Class		6.19/A++	6.11/A++	6.31/A++
	Seasonal Energy Consumption	kWh/a	424	459	555
Heating EN14825	Range Min. - Max.	kW	2.0 - 11.2	2.9 - 11.7	2.7 - 14.0
	Power Input	kW	2.20	1.93	2.83
	Pdesign	kW	5.2	5.2	6.8
	SCOP/Energy Efficiency Class		4.44/A+	4.26/A+	4.08/A+
	Seasonal Energy Consumption	kWh/a	1641	1711	2336
Outdoor Data					
Operating Range		°C	-10 to 46/-15 to 24	-10 to 46/-15 to 24	-10 to 46/-15 to 24
Air Flow	High	m³/h - l/s	2508 - 696	2508 - 696	3666 - 1018
	Pressure High	dB(A)	49	49	55
Sound	Power High	dB(A)	64	64	68
	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
Unit	Weight	kg	72	72	78
	Pipe Connection	inch	3/8 x 1 + 1/2 x 2 - 1/4 x 3	3/8 x 2 + 1/2 x 2 - 1/4 x 4	3/8 x 3 + 1/2 x 2 - 1/4 x 5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 x 1 + 1/2 x 2 - 1/4 x 3	3/8 x 2 + 1/2 x 2 - 1/4 x 4	3/8 x 3 + 1/2 x 2 - 1/4 x 5
	Min.-Max. Length	m	3-70	3-70	3-80
	Maximum Pipe Length Per Unit	m	25	25	25
	Maximum Height Difference	m	15	15	15
Refrigerant R32	Drain Port Connection	mm	16	16	16
	Base Charge/Chargeless Length	kg/m	1.92/40	1.92/40	2.39/40
	Additional Charge	g/m	20	20	20
Run Current	Maximum	A	11.67	13.09	13.64
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-20	220-240/1/50-20
OUTDOOR RETAIL PRICE			£1,893	£2,311	£2,632

RAS Multi-Split Indoor Unit Compatibility Table

RAS Indoor Model	Cooling kW	Heating kW	SEIYA	SEIYA (E2)	SHORAI EDGE	HAORI	DAISEIKAI	CONSOLE	CASSETTE	DUCTED
05	1.5	2.0	●	●	-	-	-	-	-	-
07	2.0	2.7	●	●	-	-	-	-	-	●
10	2.7	4.0	●	●	●	●	●	●	●	●
13	3.7	5.0	●	●	●	●	●	●	●	●
16	4.5	5.5	●	●	●	●	●	-	●	●
18	5.0	6.0	-	-	-	-	-	●	-	-
22	6.0	7.0	-	-	●	-	-	-	-	●
24	7.1	8.1	-	-	●	-	-	-	-	●

Outdoor Unit	Capacity	Indoor Unit	05	07	10	13	16	18	22	24
		Min.-Max.	1.5 kW	2.0 kW	2.7 kW	3.7 kW	4.5 kW	5.0 kW	6.0 kW	7.1 kW
RAS-2M10U2AVG-E	3.3 kW	2-2	●	●	●	-	-	-	-	-
RAS-2M14U2AVG-E	4.0 kW	2-2	●	●	●	●	-	-	-	-
RAS-2M18U2AVG-E	5.2 kW	2-2	●	●	●	●	●	-	-	-
RAS-3M18U2AVG-E	5.2 kW	2-3	●	●	●	●	●	-	-	-
RAS-3M26U2AVG-E	7.5 kW	2-3	●	●	●	●	●	●	●	●
RAS-4M27U2AVG-E	8.0 kW	2-4	●	●	●	●	●	●	●	●
RAS-5M34U2AVG-E	10.0 kW	2-5	●	●	●	●	●	●	●	●

● Connectable



Multi-Split Seiya High-Wall Indoor Unit

CODE			15	20	27	37	45
Performance							
Indoor Unit		RAS-	B05J2KVG-E	B07J2KVG-E	B10J2KVG-E	B13J2KVG-E	B16J2KVG-E
Capacity Code			5	7	10	13	16
Nominal	Cooling Capacity	kW	1.5	2.0	2.7	3.7	4.5
	Heating Capacity	kW	2.0	2.7	4.0	5.0	5.5
UK	Cooling Total/Sensible	kW	1.47/1.22	1.95/1.57	2.44/1.93	3.22/2.49	4.49/3.36
	Heating	kW	1.18	1.60	2.03	2.20	3.33
Cooling EN14825	Range Min. - Max.	kW	0.76 - 1.70	1.01 - 2.03	1.31 - 2.75	1.71 - 3.70	2.13 - 4.50
	Power Input	kW	0.029	0.031	0.033	0.034	0.045
Heating EN14825	Range Min. - Max.	kW	0.93 - 2.00	1.23 - 2.95	1.73 - 8.10	2.07 - 5.00	2.33 - 5.50
	Power Input	kW	0.040	0.040	0.031	0.035	0.031
Indoor Data							
Air Flow	High - Low	l/s	145 - 65	148 - 65	153 - 67	172 - 73	213 - 97
	High - Low	m³/h	522 - 65	534 - 65	552 - 67	618 - 73	768 - 92
Sound	Pressure High - Low	dB(A)	37 - 22	38 - 23	39 - 24	42 - 24	43 - 25
	Power High - Low	dB(A)	52 - 37	53 - 38	54 - 39	57 - 39	58 - 40
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	9	9	9	9	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14
Remote Controller			WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)	WH-UC01NE (Infra-Red)
INDOOR RETAIL PRICE			£194	£205	£209	£214	£280

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N106S-G	WiFi Control (model 05-16)	WiFi adapter and cable	£134



Multi-Split Seiya (E2) High-Wall Indoor Unit

CODE			15	20	27	37	45
Performance							
Indoor Unit		RAS-	B05E2KVG-E	B07E2KVG-E	B10E2KVG-E	B13E2KVG-E	B16E2KVG-E
Capacity Code			5	7	10	13	16
Nominal	Cooling Capacity	kW	1.5	2.0	2.7	3.7	4.5
	Heating Capacity	kW	2.0	2.7	4.0	5.0	5.5
UK	Cooling Total/Sensible	kW	1.47/1.22	1.95/1.57	2.44/1.93	3.22/2.49	4.49/3.36
	Heating	kW	1.18	1.60	2.03	2.20	3.33
Cooling EN14825	Range Min. - Max.	kW	0.76 - 1.70	1.01 - 2.03	1.31 - 2.75	1.71 - 3.70	2.13 - 4.50
	Power Input	kW	0.029	0.031	0.033	0.034	0.045
Heating EN14825	Range Min. - Max.	kW	0.93 - 2.00	1.23 - 2.95	1.73 - 8.10	2.07 - 5.00	2.33 - 5.50
	Power Input	kW	0.040	0.040	0.031	0.035	0.031
Indoor Data		RAS-	B05E2KVG-E	B07E2KVG-E	B10E2KVG-E	B13E2KVG-E	B16E2KVG-E
Air Flow	High - Low	l/s	34 - 55	140 - 58	144 - 64	158 - 72	213 - 92
	High - Low	m³/h	48 - 199	500 - 209	510 - 233	560 - 259	760 - 330
Sound	Pressure High - Low	dB(A)	37 - 19	38 - 19	39 - 20	42 - 20	43 - 22
	Power High - Low	dB(A)	50	51	52	54	56
Unit	Height x Width x Depth	mm	288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230
	Weight	kg	9	9	9	9	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14
Remote Controller			WH-TG01NE	WH-TG01NE	WH-TG01NE	WH-TG01NE	WH-TG01NE
INDOOR RETAIL PRICE			£207	£217	£222	£230	£281

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N106S-G	WiFi Control (model 05-16)	WiFi adapter and cable	£134

SHORAI Edge



RAS

Multi-Split Shorai Edge High-Wall Indoor Unit

CODE			27	37	45	60	71
Performance							
Indoor Unit		RAS-	B10J2KVSG-E	B13J2KVSG-E	B16J2KVSG-E	B22J2KVSG-E	B24J2KVSG-E
Capacity Code			10	13	16	22	24
Nominal	Cooling Capacity	kW	2.7	3.7	4.5	6.0	7.1
	Heating Capacity	kW	4.0	5.0	5.5	7.0	8.1
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.49/3.56	5.96/4.24	6.84/4.71
	Heating	kW	2.05	2.61	3.59	3.98	5.27
Cooling EN14825	Range Min. - Max.	kW	1.31 - 2.75	1.71 - 3.70	2.13 - 4.50	2.93 - 6.00	3.28 - 7.10
	Power Input	kW	0.035	0.040	0.045	0.045	0.050
Heating EN14825	Range Min. - Max.	kW	1.73 - 8.10	2.07 - 5.00	2.33 - 5.50	3.04 - 7.00	3.36 - 8.10
	Power Input	kW	0.035	0.040	0.045	0.045	0.050
Indoor Data		RAS-	B10J2KVSG-E	B13J2KVSG-E	B16J2KVSG-E	B22J2KVSG-E	B24J2KVSG-E
Air Flow	High - Low	l/s	183 - 86	203 - 95	213 - 100	299 - 191	316 - 199
	High - Low	m³/h	660 - 312	732 - 342	768 - 360	1,080 - 690	1140 - 720
Sound	Pressure High - Low	dB(A)	40 - 19	43 - 19	44 - 22	46 - 27	48 - 28
	Power High - Low	dB(A)	55 - 34	58 - 34	59 - 37	61 - 42	63 - 43
Unit	Height x Width x Depth	mm	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245
	Weight	kg	10	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14
Remote Controller			WH-TA15PE	WH-TA15PE	WH-TA15PE	WH-TA12PE	WH-TA12PE
INDOOR RETAIL PRICE			£365	£384	£420	£506	£559

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N105S-G	WIFI Control (model 10-24)	WIFI adapter	£129

HAORI



Multi-Split Haori High-Wall Indoor Unit

CODE			25	35	46
Performance					
Indoor Unit		RAS-	B10N4KVRG-E	B13N4KVRG-E	B16N4KVRG-E
Capacity Code			10	13	16
Nominal	Cooling Capacity	kW	2.5	3.5	4.6
	Heating Capacity	kW	3.2	4.2	5.5
UK	Cooling Total/Sensible	kW	2.44/1.93	3.42/2.64	4.49/3.42
	Heating	kW	1.86	2.54	3.37
Cooling EN14825	Range Min. - Max.	kW	0.89 - 3.20	1.00 - 4.10	1.20 - 5.30
	Power Input	kW	0.54	0.80	1.35
Heating EN14825	Range Min. - Max.	kW	0.90 - 4.70	1.00 - 5.30	1.10 - 6.30
	Power Input	kW	0.74	1.08	1.52
Indoor Data		RAS-	B10N4KVRG-E	B13N4KVRG-E	B16N4KVRG-E
Air Flow	High - Low	l/s	169 - 83	189 - 89	186 - 83
	High - Low	m³/h	610 - 300	680 - 320	730 - 340
Sound	Pressure High - Low	dB(A)	41 - 19	43 - 19	45 - 22
	Power High - Low	dB(A)	55 - 34	57 - 34	59 - 37
Unit	Height x Width x Depth	mm	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210
	Weight	kg	11	11	12
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote Controller			WH-UA01UE	WH-UA01UE	WH-UA01UE
INDOOR RETAIL PRICE			£522	£571	£641

Accessories

RB-I4101-E	Fabric Cover Kit (supplied loose)		Fabric Dark Grey	£62
RB-I4102-E	Fabric Cover Kit (supplied loose)		Fabric Light Grey	£62
RB-I4103-E	Fabric Cover Kit (supplied loose)		Fabric Bluish Grey	£78
RB-I4104-E	Fabric Cover Kit (supplied loose)		Fabric Grey Beige	£78
RB-I4105-E	Fabric Cover Kit (supplied loose)		Fabric Dark Brown	£78
RB-I4106-E	Fabric Cover Kit (supplied loose)		Fabric Emerald Blue	£78

TOSHIBA



Multi-Split Daiseikai 9 High-Wall Indoor Unit

CODE			27	37	45
Performance					
Indoor Unit		RAS-	10PKVPG-E	13PKVPG-E	16PKVPG-E
Capacity Code			10	13	16
Nominal	Cooling Capacity	kW	2.7	3.7	4.5
	Heating Capacity	kW	4.0	5.0	5.5
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.40/3.56
	Heating	kW	1.9	2.51	3.43
Cooling EN14825	Range Min. - Max.	kW	1.31 - 2.75	1.71 - 3.70	2.13 - 4.50
	Power Input	kW	0.030	0.030	0.030
Heating EN14825	Range Min. - Max.	kW	1.73 - 8.10	2.07 - 5.00	2.33 - 5.50
	Power Input	kW	0.035	0.035	0.035
Indoor Data					
Air Flow	High - Low	l/s	200 - 83	200 - 83	206 - 86
	High - Low	m³/h	720 - 300	720 - 300	740 - 310
Sound	Pressure High - Low	dB(A)	42 - 20	44 - 20	45 - 22
	Power High - Low	dB(A)	57 - 35	59 - 35	60 - 37
Unit	Height x Width x Depth	mm	293 x 851 x 270	293 x 851 x 270	293 x 851 x 270
	Weight	kg	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote Controller			WH-TA01LE	WH-TA01LE	WH-TA01LE
INDOOR RETAIL PRICE			£534	£549	£573

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N105S-G	WiFi Control (model 10-24)	WiFi adapter	£129



Multi-Split Cassette Indoor Unit

CODE			27	37	45
Performance					
Indoor Unit		RAS-	M10U2MUVG-E	M13U2MUVG-E	M16U2MUVG-E
Capacity Code			10	13	16
Nominal	Cooling Capacity	kW	2.7	3.7	4.5
	Heating Capacity	kW	4.0	5.0	5.5
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.49/3.56
	Heating	kW	2.05	2.61	3.53
Cooling EN14825	Range Min. - Max.	kW	1.31 - 2.75	1.71 - 3.70	2.13 - 4.50
	Power Input	kW	0.023	0.023	0.023
Heating EN14825	Range Min. - Max.	kW	1.73 - 8.10	2.07 - 5.00	2.33 - 5.50
	Power Input	kW	0.023	0.023	0.023
Indoor Data					
Air Flow	High - Low	l/s	164 - 119	172 - 119	189 - 125
	High - Low	m³/h	590 - 430	620 - 430	680 - 450
Sound	Pressure High - Low	dB(A)	37 - 30	38 - 30	40 - 31
	Power High - Low	dB(A)	52 - 45	53 - 45	55 - 46
Unit	Height x Width x Depth	mm	268 x 575 x 575	268 x 575 x 575	268 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	27 x 700 x 700	27 x 700 x 700	27 x 700 x 700
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25
INDOOR RETAIL PRICE			£1,126	£1,211	£1,275

Accessories

RBC-AX32UM(W)-E	Remote Controller	Wireless remote controller (new 7 series compact cassettes)	£120
RB-RWS21E	Remote Controller	Hard-wired remote controller RAS cassette	£199
TCB-SIR41UM-E	Occupancy Sensor	Occupancy sensor (new 7 series compact cassettes)	£94



Multi-Split Ducted Indoor Unit

CODE			20	27	37	45	60	71
Performance								
Indoor Unit		RAS-	M07U2DVG-E	M10U2DVG-E	M13U2DVG-E	M16U2DVG-E	M22U2DVG-E	M24U2DVG-E
Capacity Code			7	10	13	16	22	24
Nominal	Cooling Capacity	kW	2.0	2.7	3.7	4.5	6.0	7.1
	Heating Capacity	kW	2.7	4.0	5.0	5.5	7.0	8.1
UK	Cooling Total/Sensible	kW	1.95/1.57	2.44/1.93	3.22/2.49	4.49/3.36	5.96/4.24	6.84/4.71
	Heating	kW	1.60	2.03	2.20	3.33	3.98	5.27
Cooling EN14825	Range Min. - Max.	kW	1.01 - 2.03	1.31 - 2.75	1.71 - 3.70	2.13 - 4.50	2.93 - 6.00	3.28 - 7.10
	Power Input	kW	0.048	0.048	0.054	0.062	0.069	0.076
Heating EN14825	Range Min. - Max.	kW	1.23 - 2.95	1.73 - 8.10	2.07 - 5.00	2.33 - 5.50	3.04 - 7.00	3.36 - 8.10
	Power Input	kW	0.048	0.048	0.054	0.062	0.069	0.076
Indoor Data		RAS-	M07U2DVG-E	M10U2DVG-E	M13U2DVG-E	M16U2DVG-E	M22U2DVG-E	M24U2DVG-E
Air Flow	High - Low	l/s	158 - 106	158 - 106	169 - 107	217 - 117	278 - 206	294 - 211
	High - Low	m³/h	570 - 380	570 - 380	610 - 385	780 - 420	1000 - 740	1060 - 760
External Static Pressure	Standard (Upper - Lower)	Pa	10 (10 - 45)	10 (10 - 45)	10 (10 - 45)	10 (10 - 45)	10 (10 - 45)	10 (10 - 45)
Sound Pressure	High - Low	dB(A)	35 - 27	35 - 27	37 - 27	35 - 25	38 - 32	39 - 33
	High - Low (under inlet)	dB(A)	44 - 30	44 - 30	46 - 30	44 - 27	45 - 37	46 - 38
Sound Power	High - Low	dB(A)	50 - 42	50 - 42	52 - 42	50 - 40	53 - 47	54 - 48
	High - Low (under inlet)	dB(A)	59 - 45	59 - 45	61 - 45	59 - 42	60 - 52	61 - 53
Unit	Height x Width x Depth	mm	210 × 700 × 450	210 × 700 × 450	210 × 700 × 450	210 × 900 × 450	210 × 1100 × 450	210 × 1100 × 450
	Weight	kg	16	16	16	19	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25	32/25
Remote Controller			WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)	WH-TA04NE (Infra-Red)
INDOOR RETAIL PRICE			£793	£803	£814	£868	£1.014	£1.049

Accessories

RB-RWS21E	Remote Controller	Hard-wired remote controller	£199
-----------	-------------------	------------------------------	------

Bi-flow



Multi-Split Bi-Flow Console Indoor Unit

CODE			27	37	45
Performance					
Indoor Unit		RAS-	B10J2FVG-E	B13J2FVG-E	B18J2FVG-E
Capacity Code			10	13	18
Nominal	Cooling Capacity	kW	2.7	3.7	5.0
	Heating Capacity	kW	4.0	5.0	6.0
UK	Cooling Total/Sensible	kW	2.44/2.03	3.42/2.74	4.40/3.56
	Heating	kW	1.9	2.51	3.43
Cooling EN14825	Range Min. - Max.	kW	1.31 - 2.75	1.71 - 3.70	2.31 - 5.00
	Power Input	kW	0.025	0.030	0.045
Heating EN14825	Range Min. - Max.	kW	1.73 - 8.10	2.07 - 5.00	2.49 - 6.00
	Power Input	kW	0.025	0.030	0.045
Indoor Data		RAS-	B10J2FVG-E	B13J2FVG-E	B18J2FVG-E
Air Flow	High - Low	l/s	136 - 71	153 - 75	183 - 101
	High - Low	m³/h	492 - 258	552 - 270	660 - 366
Sound	Pressure High - Low	dB(A)	39 - 23	40 - 24	47 - 31
	Power High - Low	dB(A)	54 - 38	55 - 39	61 - 46
Unit	Height x Width x Depth	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
	Weight	kg	16	16	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Remote Controller			WH-TA12LE	WH-TA12LE	WH-TA12LE
INDOOR RETAIL PRICE			£688	£751	£833

Accessories

RB-RXS33-E	Remote Controller	Remote controller weekly-timer (WH-TA15PE)	£70
RB-N106S-G	WiFi Control (model 10-18)	WiFi adapter and cable	£134
RB-I301-E	Leak Detection	Leak detection sensor kit	£173

> DIGITAL INVERTER

Toshiba continues to improve its range of split systems dedicated to commercial applications. Digital Inverter (DI), compact and already previously highly efficient has been totally redesigned. The performance of these systems provides significant energy savings for a rapid return on investment. Comfort, ease of installation and simplicity are the strength of Toshiba systems.

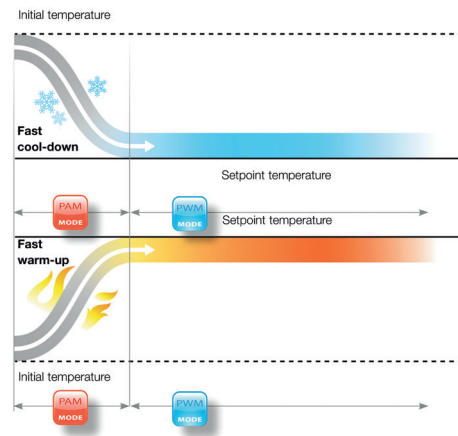
> Small and light chassis

- Less than 900 mm up to 5 hp, the Digital Inverter is extremely compact and can be installed in very small places. In addition, chassis under 5 hp are less than 70 kg.



> Smart Inverter

- Hybrid inverter control combines two intelligent control mechanisms to reach the setpoint temperature as quickly as possible with maximum efficiency:
 - the PAM mode, quickly achieves high capacity and desired comfort.
 - the PWM mode minimises power input to maximise efficiency.
- The result: high efficiency level.



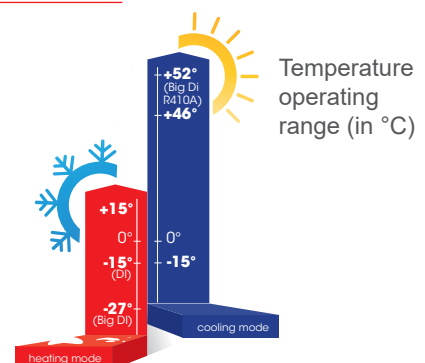
> Wide capacity range

- 9 sizes from 1 hp to 10 hp with 1 ph or 3 ph electrical connections to cover every type of project from the 15 m² room to the 200 m² shop in both new construction and refurbishment.

	kW	2.8	4.5	5.6	8.0	9.0	11.2	14.0	16.0	22.4	28.0
	hp	1	1.5	2	3	3.5	4	5	6	8	10
	1 ph	✓	✓	✓	✓	✓	✓	✓	✓		
	3 ph						✓	✓	✓	✓	✓
	1 ph								✓		
	3 ph									✓	✓

> Operating temperature range

- Heating operation is possible starting from an outdoor temperature of -15°C (-25°C for Big DI), while cooling operation is possible at -15°C and up to 46°C (52°C for Big DI R410A) outdoor temperature. This enables wider applications and usage of the system everywhere.



> SUPER DIGITAL INVERTER

Toshiba Super Digital Inverter series air conditioners combine economy and ecology in a compact body. They feature state-of-the-art technology, flexible control, and easy installation to bring natural comfort and convenience to any business environment. SDI outdoor units are compatible with a complete range of indoor units: Cassette, Ducted, Ceiling and High-Wall units.

> Maximum efficiency

- Very efficient energy consumption, keeps down operating costs: SEER of 9.40 and SCOP of 5.51 achieved by Toshiba's unrivalled Super Digital Inverter technologies and newly-developed components.



- Top-class seasonal efficiency
- Lower stand-by power
- Energy monitoring
- Wider operating range

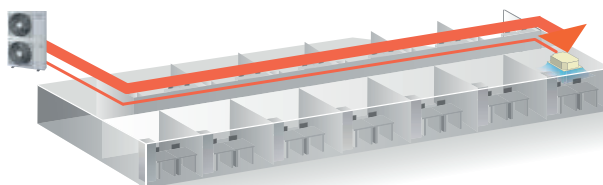
> Ideal couple: DC twin-rotary compressor and vector-controlled inverter

- The benefits of inverter technology are further optimised in combination with Toshiba twin-rotary compressors. These allow excellent speed control in the capacity range from 20 to 100% capacity: this is an exclusive Toshiba benefit!

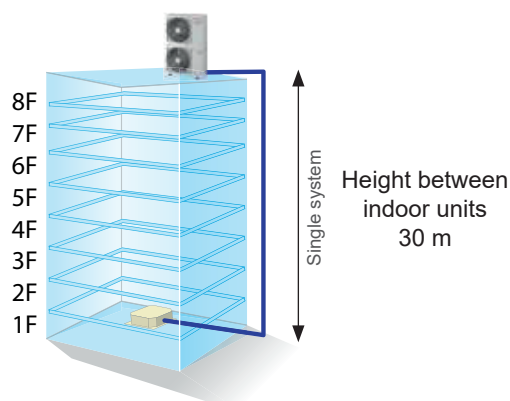


> Piping flexibility

- Super Digital Inverter leads the industry with support for height differences of up to 30 metres on a single system. That is enough height to cover an 8-storey building. Enabling the outdoor unit to be installed out of sight increases installation flexibility (only 4 and 5 hp).



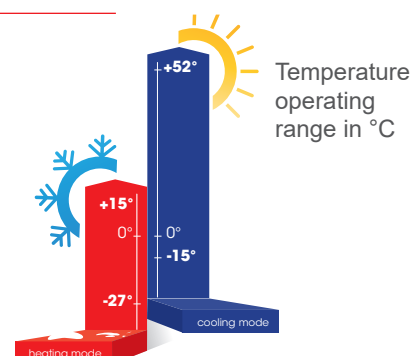
Farthest equivalent length 75 m



Calculated at 3.5 metres per floor

> Operating temperature range

- Heating operation is possible starting from an outdoor temperature of -27°C to create a comfortable space even during cold winters, while cooling operation is possible up to 52°C outdoor temperature. This enables wider applications and use of the system in colder regions.





High-Wall Indoor Unit

CODE			25	36	50	67
Indoor Unit		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Outdoor Unit		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E
Nominal	Cooling Capacity	kW	2.5	3.6	5.0	6.7
	Heating Capacity	kW	3.4	4.0	5.3	7.7
	EER/COP	W/W	4.10/4.00	3.19/3.57	3.01/3.42	2.75/2.95
UK	Cooling Total/Sensible	kW	2.37/1.97	3.42/2.67	4.75/3.61	6.36/4.66
	Heating	kW	2.43	2.86	3.79	5.51
Cooling EN14825	Range Min. - Max.	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 8.0
	Power Input	kW	0.61	1.13	1.66	2.44
	Pdesign	kW	2.5	3.6	5.0	6.7
	SEER/Energy Efficiency Class		6.36/A++	6.12/A++	6.19/A++	5.73/A+
	Seasonal Energy Consumption	kWh/a	138	206	283	409
Heating EN14825	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0
	Power Input	kW	0.85	1.12	1.55	2.61
	Pdesign	kW	2.6	2.7	2.8	5.1
	SCOP/Energy Efficiency Class		4.10/A+	4.22/A+	4.00/A+	4.01/A+
Seasonal Energy Consumption		kWh/a	887	895	980	1780

Indoor Data		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	194 - 161 - 125	267 - 231 - 189	289 - 253 - 189
	High - Medium - Low	m³/h	670 - 540 - 450	700 - 580 - 450	960 - 830 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	41 - 36 - 30	42 - 39 - 36	45 - 41 - 35
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 51 - 45	57 - 54 - 51	60 - 56 - 51
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14
Remote Controller			WH-TA09NE	WH-TA09NE	WH-TA09NE	WH-TA09NE

Outdoor Data		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	1800 - 500	2200 - 611	2400 - 667	2700 - 750
Sound	Pressure High Cooling/Heating	dB(A)	46/47	49/50	46/48	48/52
	Power High Cooling/Heating	dB(A)	61/62	64/65	63/65	65/69
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	29	34	40	42
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Min.-Max. Length	m	2-20	2-20	5-30	5-30
	Maximum Height Difference	m	±10	±10	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	m	R32 - 0.63/15	R32 - 0.9/15	R32 - 0.9/20	R32 - 1.3/20
	Additional Charge Liquid Side	g/m	20	20	20	35
Run Current	Maximum	Amps	4.17	5.60	7.78	12.23
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16

INDOOR RETAIL PRICE	£379	£412	£507	£547
OUTDOOR RETAIL PRICE	£691	£827	£987	£1,301
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£1,070	£1,239	£1,494	£1,848

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Wall installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Remote control included

DIGITAL INVERTER



High-Wall Indoor Unit (continued)

CODE			90	100	100
Indoor Unit		RAV-	GM901KRTP-E	GM1101KRTP-E	GM1101KRTP-E
Outdoor Unit		RAV-	GM901ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	8.0	9.5	9.5
	Heating Capacity	kW	9.0	11.2	11.2
	EER/COP	W/W	3.00/3.10	3.20/3.23	3.20/3.23
UK	Cooling Total/Sensible	kW	7.83/6.35	9.28/7.22	9.28/7.22
	Heating	kW	6.12	6.93	6.93
Cooling EN14825	Range Min. - Max.	kW	1.9 - 8.8	3.0 - 11.2	3.0 - 11.2
	Power Input	kW	2.67	2.97	2.97
	Pdesign	kW	6.7	9.50	9.50
	SEER/Energy Efficiency Class		6.10/A++	6.10/A++	6.10/A++
	Seasonal Energy Consumption	kWh/a	459	545	545
Heating EN14825	Range Min. - Max.	kW	1.6 - 9.9	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	2.90	3.47	3.47
	Pdesign	kW	5.1	8.00	8.00
	SCOP/Energy Efficiency Class		4.10/A+	4.20/A+	4.20/A+
Seasonal Energy Consumption		kWh/a	2151	2665	2664

Indoor Data		RAV-	GM901KRTP-E	GM1101KRTP-E	GM1101KRTP-E
Air Flow	High - Medium - Low	l/s	328 - 253 - 189	447 - 375 - 328	447 - 375 - 328
	High - Medium - Low	m³/h	1180 - 910 - 680	1610 - 1350 - 1180	1610 - 1350 - 1180
Sound	Pressure High - Medium - Low	dB(A)	47 - 41 - 35	49 - 45 - 41	49 - 45 - 41
	Power High - Medium - Low	dB(A)	62 - 56 - 50	64 - 60 - 56	64 - 60 - 56
Unit	Height x Width x Depth	mm	320 x 1050 x 250	348 x 1200 x 280	348 x 1200 x 280
	Weight	kg	14	19	19
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14
Remote Controller			WH-TA09NE	WH-TA09NE	WH-TA09NE

Outdoor Data		RAV-	GM901ATP-E	GM1101ATP-E	GM1101AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2900 - 806	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	51/68	54/57	54/57
	Power High Cooling/Heating	dB(A)	68/72	70/74	70/74
Unit	Height x Width x Depth	mm	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320
	Weight	kg	47	68	68
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	m	R32 - 2.0/20	R32 - 2.1/20	R32 - 2.1/20
	Additional Charge Liquid Side	g/m	35	35	35
Run Current	Maximum	Amps	14.02	16.80	5.60
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£602	£657	£657
OUTDOOR RETAIL PRICE	£1,431	£1,712	£2,070
SYSTEM RETAIL PRICE (inc. Infra-red controller)	£2,033	£2,369	£2,727

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Wall installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Remote control included



Compact Cassette Indoor Unit

CODE			25	36	50
Performance					
Indoor Unit		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E
Outdoor Unit		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E
Nominal	Cooling Capacity	kW	2.5	3.6	5.0
	Heating Capacity	kW	3.4	4.0	5.3
	EER/COP	W/W	4.24/4.47	4/4.21	3.05/3.61
UK	Cooling Total/Sensible	kW	2.40/1.95	3.45/2.79	4.80/3.50
	Heating	kW	2.18	2.56	3.79
Cooling EN14825	Range Min. - Max.	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6
	Power Input	kW	0.59	0.9	1.64
	Pdesign	kW	2.50	3.60	5.00
	SEER/Energy Efficiency Class		5.94/A++	5.76/A+	5.69/A+
Heating EN14825	Seasonal Energy Consumption	kWh/a	158	235	319
	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3
	Power Input	kW	0.76	0.95	1.47
	Pdesign	kW	2.30	2.70	2.80
	SCOP/Energy Efficiency Class		4.7/A++	4.44/A+	4.37/A+
	Seasonal Energy Consumption	kWh/a	705	1032	1279
Indoor Data					
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	660 - 552 - 468	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	1800 - 500	2200 - 611	2400 - 667
Sound	Pressure High Cooling/Heating	dB(A)	46/47	49/50	46/48
	Power High Cooling/Heating	dB(A)	61/62	64/65	63/65
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	33	39	40
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	5-30
	Maximum Height Difference	m	±10	±10	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.63/15	R32 - 0.9/15	R32 - 0.9/20
	Additional Charge Liquid Side	g/m	20	20	20
Run Current	Maximum	A	3.75	4.64	7.93
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16
INDOOR RETAIL PRICE			£1,082	£1,089	£1,106
OUTDOOR RETAIL PRICE			£691	£827	£987
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£1,852	£1,995	£2,172

Accessories

RBC-AX32UM(W)-E	Remote Controller	Wireless infra-red controller and receiver	£120
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	£94



False ceiling installation



Auto-diagnosis



Built-in drain pump



Wired controller



Self-cleaning



Single-split



Standard 600 x 600 ceiling size



Automatic restart



Louvre control



Low ambient cooling to -15°C DB



4-Way Cassette Indoor Unit

CODE			50	67	90	95	95
Performance							
Indoor Unit		RAV-	RM561UTP-E	RM801UTP-E	GM901UTP-E	RM1101UTP-E	RM1101UTP-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM901ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	8.0	9.5	9.5
	Heating Capacity	kW	5.3	7.7	9.0	11.2	11.2
	EER/COP	W/W	3.21/3.9	3.02/3.62	3.30/3.72	3.31/3.82	3.31/3.82
UK	Cooling Total/Sensible	kW	4.80/3.60	6.40/4.80	7.83/6.35	9.10/7.56	9.10/7.56
	Heating	kW	3.79	5.51	6.12	8.01	8.01
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 8.0	1.9 - 8.8	3.0 - 11.2	3.0 - 11.2
	Power Input	kW	1.56	2.22	2.42	2.87	2.87
	Pdesign	kW	5.00	6.70	6.7	9.50	9.50
	SEER/Energy Efficiency Class (or ηsc %)		6.34/A++	5.81/A+	7.00/A++	6.15/A++	6.15/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	285	404	389	597	597
	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	1.8 - 9.9	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	1.36	2.13	2.65	2.93	2.93
	Pdesign	kW	2.80	5.10	5.1	8.00	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.60/A+	4.42/A+	4.60/A++	4.28/A+	4.28/A+
	Seasonal Energy Consumption	kWh/a	1459	2349	1917	2616	2616
Indoor Data							
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	342 - 267 - 225	444 - 306 - 250	558 - 400 - 325	558 - 400 - 325
	High - Medium - Low	m³/h	1050 - 870 - 780	1230 - 960 - 810	1600 - 1100 - 900	2010 - 1440 - 1170	2010 - 1440 - 1170
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	35 - 31 - 28	40 - 36 - 33	43 - 38 - 33	43 - 38 - 33
	Power High - Medium - Low	dB(A)	47 - 44 - 43	50 - 46 - 43	55 - 51 - 48	58 - 53 - 48	58 - 53 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	20	24	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4.2	4.2	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	2900 - 806	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	51/55	54/57	54/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	68/72	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	47	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5 - 50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.9/20	R32 - 0.9/20	R32 - 2.0/20	R32 - 2.1/30	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	20	35	35	35	35
Run Current	Maximum	A	7.31	10.40	12.81	14.20	4.75
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	220-240/1/50-20	380-415/3/50-10
INDOOR RETAIL PRICE			£956	£1,027	£1,073	£1,119	£1,119
OUTDOOR RETAIL PRICE			£987	£1,301	£1,431	£1,712	£2,070
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£2,022	£2,407	£2,583	£2,910	£3,268

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-AXU31U-E	Remote Controller	Wireless receiver kit for 4-Way Cassette	£202
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



False ceiling installation



Auto-diagnosis



Built-in drain pump



Individual louvre control



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Wired controller



Automatic restart



Louvre control



Chargeless



4-Way Cassette Indoor Unit (continued)

CODE			120	120	140	140
Performance						
Indoor Unit		RAV-	RM1401UTP-E	RM1401UTP-E	RM1601UTP-E	RM1601UTP-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Nominal	Cooling Capacity	kW	12.0	12.0	14.0	14.0
	Heating Capacity	kW	12.8	12.8	16.0	16.0
	EER/COP	W/W	2.8/3.76	2.8/3.76	3.12/3.61	3.12/3.61
UK	Cooling Total/Sensible	kW	11.40/8.80	11.40/8.80	13.30/9.70	13.30/9.70
	Heating	kW	9.30	9.30	10.88	10.88
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	3.57	3.57	4.49	4.49
	Pdesign	kW	12.00	12.00	12.0	12.0
	SEER/Energy Efficiency Class (or ηsc %)		5.71/A+	5.71/A+	6.30/249.0	6.30/249.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	783	783	1033	1033
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0
	Power Input	kW	3.46	3.46	4.43	4.43
	Pdesign	kW	8.00	8.00	8.0	8.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.29/A+	4.29/A+	4.35/171.0	4.35/171.0
	Seasonal Energy Consumption	kWh/a	2672	2672	2575	2575

Indoor Data		RAV-	RM1401UTP-E	RM1401UTP-E	RM1601UTP-E	RM1601UTP-E
Air Flow	High - Medium - Low	l/s	583 - 400 - 342	583 - 400 - 342	592 - 408 - 350	592 - 408 - 350
	High - Medium - Low	m³/h	2100 - 1440 - 1230	2100 - 1440 - 1230	2130 - 1470 - 1260	2130 - 1470 - 1260
Sound	Pressure High - Medium - Low	dB(A)	44 - 38 - 34	44 - 38 - 34	45 - 40 - 36	45 - 40 - 36
	Power High - Medium - Low	dB(A)	59 - 53 - 49	59 - 53 - 49	60 - 55 - 51	60 - 55 - 51
Unit	Height x Width x Depth	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	24	24	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4.2	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6900 - 1917	6900 - 1917
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	53/55	53/55
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/72	70/72
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	95	94
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 2.1/30	R32 - 2.1/30	R32 - 2.4/30	R32 - 2.4/30
	Additional Charge Liquid Side	g/m	35	35	35	35
Run Current	Maximum	A	20.75	6.90	21.71	7.23
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16

INDOOR RETAIL PRICE	£1,145	£1,145	£1,224	£1,224
OUTDOOR RETAIL PRICE	£1,804	£2,182	£2,431	£2,702
REMOTE CONTROLLER RBC-AMTU31-E	£79	£79	£79	£79
SYSTEM RETAIL PRICE	£3,028	£3,406	£3,734	£4,005

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-AXU31U-E	Remote Controller	Wireless receiver kit for 4-Way Cassette	£202
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



False ceiling installation



Auto-diagnosis



Built-in drain pump



Individual louvre control



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Wired controller



Louvre control



Chargeless



Automatic restart



Ceiling Indoor Unit

CODE			36	50	69	90	95
Performance							
Indoor Unit		RAV-	RM401CTP-E	RM561CTP-E	RM801CTP-E	GM901CTP-E	RM1101CTP-E
Outdoor Unit		RAV-	GM401ATP-E	GM561ATP-E	GM801ATP-E	GM901ATP-E	GM1101ATP-E
Nominal	Cooling Capacity	kW	3.6	5.0	6.9	8.0	9.5
	Heating Capacity	kW	4.0	5.3	7.7	9.0	11.2
	EER/COP	W/W	4.34/5.13	3.11/3.9	2.9/3.62	3.10/3.40	3.22/3.81
UK	Cooling Total/Sensible	kW	3.45/2.89	4.80/3.06	6.60/5.00	7.83/6.61	9.10/7.18
	Heating	kW	2.56	3.79	5.51	6.12	8.01
Cooling EN14825	Range Min. - Max.	kW	0.9 - 4.0	1.5 - 5.6	1.5 - 7.4	1.9 - 8.8	3.0 - 11.2
	Power Input	kW	0.83	1.61	2.38	2.58	2.95
	Pdesign	kW	3.60	5.00	6.90	6.9	9.50
	SEER/Energy Efficiency Class (or ηsc %)			6.34/A++	5.50/A	5.62/A+	6.10/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	211	324	429	459	604
	Range Min. - Max.	kW	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0	1.8 - 9.9	3.0 - 13.0
	Power Input	kW	0.78	1.36	2.13	2.65	2.94
	Pdesign	kW	2.70	2.80	5.10	5.10	7.60
	SCOP/Energy Efficiency Class (or ηsc(A) %)			5.1/A+++	4.32/A+	4.21/A+	4.60/A++
Seasonal Energy Consumption		kWh/a	1125	1562	2372	1917	2489
Indoor Data							
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	392 - 278 - 208	444 - 278 - 250	517 - 375 - 283
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	1410 - 1000 - 750	1600 - 1000 - 900	1860 - 1350 - 1020
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	41 - 36 - 29	42 - 38 - 30	44 - 38 - 32
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	56 - 51 - 44	57 - 53 - 45	59 - 53 - 47
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	23	23	29	29	37
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 -1/4	1/2 -1/4	5/8 -3/8	5/8 -3/8	5/8 -3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2200 - 611	2400 - 667	2700 - 750	2900 - 806	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	49/50	46/48	48/52	51/55	54/57
	Power High Cooling/Heating	dB(A)	64/65	63/65	65/69	68/72	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	890 x 900 x 320
	Weight	kg	39	40	44	47	68
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	2-20	5-30	5-30	5-50	5-50
	Maximum Height Difference	m	±10	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.9/20	R32 - 0.9/20	R32 - 1.3/20	R32 - 2.0/20	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	20	20	35	35	35
Run Current	Maximum	A	4.10	7.54	11.15	12.81	14.30
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	220-240/1/50-20
INDOOR RETAIL PRICE			£736	£803	£951	£994	£1,037
OUTDOOR RETAIL PRICE			£827	£987	£1,301	£1,431	£1,712
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£1,642	£1,869	£2,331	£2,504	£2,828

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Ceiling installation



Self-cleaning



Automatic restart



Auto-diagnosis



Single-split



Drain connection both sides



Chargeless



Low ambient cooling to -15°C DB



Wired controller



Ceiling Indoor Unit (continued)

CODE			95	121	121	140	140
Performance							
Indoor Unit		RAV-	RM1101CTP-E	RM1401CTP-E	RM1401CTP-E	RM1601CTP-E	RM1601CTP-E
Outdoor Unit		RAV-	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Nominal	Cooling Capacity	kW	9.5	12.1	12.1	14.0	14.0
	Heating Capacity	kW	11.2	12.8	12.8	16.0	16.0
	EER/COP	W/W	3.22/3.81	2.74/3.74	2.74/3.74	3.01/3.90	3.01/3.90
UK	Cooling Total/Sensible	kW	9.10/7.18	11.50/8.40	11.50/8.40	13.30/9.30	13.30/9.30
	Heating	kW	9.30	9.30	9.30	10.88	10.88
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	2.95	4.67	4.67	4.65	4.65
	Pdesign	kW	9.50	12.00	12.00	12.0	12.0
SEER/Energy Efficiency Class (or ηsc %)			5.86/A+	5.36/211.4	5.36/211.4	5.90/233.0	5.90/233.0
Seasonal Energy Consumption		kWh/a	604	660	660	831	831
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0
	Power Input	kW	2.94	3.48	3.48	4.61	4.61
	Pdesign	kW	7.60	8.0	8.0	8.0	8.0
SCOP/Energy Efficiency Class (or ηsc(A) %)			4.27/A+	4.19/164.6	4.19/164.6	4.35/171.0	4.35/171.0
Seasonal Energy Consumption		kWh/a	2489	2543	2543	2732	2732

Indoor Data		RAV-	RM1101CTP-E	RM1401CTP-E	RM1401CTP-E	RM1601CTP-E	RM1601CTP-E
Air Flow	High - Medium - Low	l/s	517 - 375 - 283	567 - 425 - 333	567 - 425 - 333	567 - 425 - 333	567 - 425 - 333
	High - Medium - Low	m³/h	1860 - 1350 - 1020	2040 - 1530 - 1200	2040 - 1530 - 1200	2040 - 1530 - 1200	2040 - 1530 - 1200
Sound	Pressure High - Medium - Low	dB(A)	44 - 38 - 32	46 - 41 - 35	46 - 41 - 35	46 - 41 - 35	46 - 41 - 35
	Power High - Medium - Low	dB(A)	59 - 53 - 47	61 - 56 - 50	61 - 56 - 50	61 - 56 - 50	61 - 56 - 50
Unit	Height x Width x Depth	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	37	37	37	37	37
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4200 - 1167	4200 - 1167	6900 - 1917	6900 - 1917
Sound	Pressure High Cooling/Heating	dB(A)	54/57	55/57	55/57	53/55	53/55
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/72	70/72
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	69	68	69	95	94
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 2.1/30	R32 - 2.1/30	R32 - 2.1/30	R32 - 2.4/30	R32 - 2.4/30
	Additional Charge Liquid Side	g/m	35	35	35	35	35
Run Current	Maximum	A	4.75	21.40	7.15	22.48	7.49
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16

INDOOR RETAIL PRICE	£1,037	£1,307	£1,307	£1,331	£1,331
OUTDOOR RETAIL PRICE	£2,070	£1,804	£2,182	£2,431	£2,702
REMOTE CONTROLLER RBC-AMTU31-E	£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE	£3,186	£3,190	£3,568	£3,841	£4,112

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Ceiling installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Wired controller

DIGITAL INVERTER



Ducted Indoor Unit

CODE			50	67	90	95	95
Performance							
Indoor Unit		RAV-	RM561BTP-E	RM801BTP-E	GM901BTP-E	RM1101BTP-E	RM1101BTP-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM901ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	8.0	9.5	9.5
	Heating Capacity	kW	5.3	7.7	9.0	11.2	11.2
UK	EER/COP	W/W	2.73/3.27	2.82/3.32	3/3.4	3.18/3.75	3.18/3.75
	Cooling Total/Sensible	kW	4.80/3.60	6.30/4.90	7.83/5.78	9.10/7.37	9.10/7.37
Cooling EN14825	Heating	kW	3.79	5.51	6.12	8.01	8.01
	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	1.9 - 8.8	3.0 - 11.2	3.0 - 11.2
Heating EN14825	Power Input	kW	1.83	2.38	2.67	2.99	2.99
	Pdesign	kW	5.00	6.70	6.7	9.50	9.50
SEER/Energy Efficiency Class (or ηsc %)			5.28/A	5.2/A	6.10/A++	5.28/A	5.28/A
	Seasonal Energy Consumption	kWh/a	365	466	459	696	696
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	1.8 - 9.9	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	1.62	2.32	2.65	2.99	2.99
SCOP/Energy Efficiency Class (or ηsc(A) %)		kW	2.80	5.10	5.10	7.60	7.60
	Seasonal Energy Consumption	kWh/a	1549	2450	1917	2569	2569

Indoor Data		RAV-	RM561BTP-E	RM801BTP-E	GM901BTP-E	RM1101BTP-E	RM1101BTP-E
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	333 - 258 - 200	472 - 375 - 278	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	800 - 630 - 480	1200 - 930 - 720	1700 - 1350 - 1000	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	34 - 30 - 26	37 - 33 - 30	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	48 - 44 - 40	49 - 45 - 41	52 - 48 - 45	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	23	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GM561ATP-E	GM801ATP-E	GM901ATP-E	GM1101ATP-E	GM1101AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	2900 - 806	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	51/55	54/57	54/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	68/72	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	47	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.9/20	R32 - 1.3/20	R32 - 2.0/20	R32 - 2.1/30	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	20	35	35	35	35
Run Current	Maximum	A	8.58	11.20	12.91	14.50	4.85
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£718	£926	£993	£1,059	£1,059
OUTDOOR RETAIL PRICE	£987	£1,301	£1,431	£1,712	£2,070
REMOTE CONTROLLER RBC-AMTU31-E	£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE	£1,784	£2,306	£2,503	£2,850	£3,208

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£263
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
RBC-VCK1	Vertical Mounting	Ducted vertical conversion kit	£521
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	£128
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	£150
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E	£191



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Built-in drain pump



Automatic restart



Single-split



Chargeless



Wired controller



Self-cleaning

TOSHIBA



Ducted Indoor Unit (continued)

CODE			121	121	140	140
Performance						
Indoor Unit		RAV-	RM1401BTP-E	RM1401BTP-E	RM1601BTP-E	RM1601BTP-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	14.0
	Heating Capacity	kW	12.8	12.8	16.0	16.0
	EER/COP	W/W	2.74/3.61	2.74/3.61	2.73/3.41	2.73/3.41
UK	Cooling Total/Sensible	kW	11.15/8.90	11.15/8.90	13.30/9.70	13.30/9.70
	Heating	kW	9.30	9.30	10.88	10.88
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	4.67	4.42	5.13	5.13
	Pdesign	kW	12.00	12.00	12.0	12.0
	SEER/Energy Efficiency Class (or ηsc %)		5.36/211.4	5.36/211.4	5.30/202.2	5.30/202.2
Heating EN14825	Seasonal Energy Consumption	kWh/a	707	707	925	925
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0
	Power Input	kW	3.60	3.60	4.69	4.69
	Pdesign	kW	8.0	8.0	8.0	8.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.19/164.6	3.90/153.0	3.90/153.0
	Seasonal Energy Consumption	kWh/a	2569	2569	2782	2782

Indoor Data		RAV-	RM1401BTP-E	RM1401BTP-E	RM1601BTP-E	RM1601BTP-E
Air Flow	High - Medium - Low	l/s	583 - 458 - 350	583 - 458 - 350	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	2100 - 1650 - 1260	2100 - 1650 - 1260	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	50 (120 - 30)	50 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	40	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6900 - 1917	6900 - 1917
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	53/55	53/55
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/72	70/72
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	95	94
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 2.1/30	R32 - 2.1/30	R32 - 2.4/30	R32 - 2.4/30
	Additional Charge Liquid Side	g/m	35	35	35	35
Run Current	Maximum	A	21.40	7.15	24.81	8.27
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16

INDOOR RETAIL PRICE	£1,183	£1,183	£1,290	£1,290
OUTDOOR RETAIL PRICE	£1,804	£2,182	£2,431	£2,702
REMOTE CONTROLLER RBC-AMTU31-E	£79	£79	£79	£79
SYSTEM RETAIL PRICE	£3,066	£3,444	£3,800	£4,071

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£263
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
RBC-VCK1	Vertical Mounting	Ducted vertical conversion kit	£521
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	£128
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	£150
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E	£191

	Concealed false ceiling installation		Auto-diagnosis		Low ambient cooling to -15°C DB		Built-in drain pump		Automatic restart
	Self-cleaning		Single-split		Chargeless		Wired controller		

DIGITAL INVERTER



Slim Ducted Indoor Unit

CODE			25	36	50
Performance					
Indoor Unit		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E
Nominal	Cooling Capacity	kW	2.5	3.6	5.0
	Heating Capacity	kW	3.4	4.0	5.3
	EER/COP	W/W	4.46/3.95	3.87/4.12	2.62/3.53
UK	Cooling Total/Sensible	kW	2.40/1.79	3.45/2.84	4.80/3.30
	Heating	kW	2.18	2.56	3.79
Cooling EN14825	Range Min. - Max.	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6
	Power Input	kW	0.56	0.93	1.91
	Pdesign	kW	2.50	3.60	5.00
	SEER/Energy Efficiency Class		6.29/A++	5.86/A+	5.14/A
Heating EN14825	Seasonal Energy Consumption	kWh/a	143	227	346
	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3
	Power Input	kW	0.86	0.97	1.50
	Pdesign	kW	2.60	2.70	2.80
	SCOP/Energy Efficiency Class		4.6/A++	4.01/A+	4.16/A+
	Seasonal Energy Consumption	kWh/a	907	1337	1517
Indoor Data					
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	1800 - 500	2200 - 611	2400 - 667
Sound	Pressure High Cooling/Heating	dB(A)	46/47	49/50	46/48
	Power High Cooling/Heating	dB(A)	61/62	64/65	63/65
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	33	39	40
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	5-30
	Maximum Height Difference	m	±10	±10	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.63/15	R32 - 0.9/15	R32 - 0.9/20
	Additional Charge Liquid Side	g/m	20	20	20
Run Current	Maximum	A	4.20	4.75	8.95
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16
INDOOR RETAIL PRICE			£730	£746	£761
OUTDOOR RETAIL PRICE			£691	£827	£987
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£1,500	£1,652	£1,827

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£263
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Automatic restart



Built-in drain pump



Self-cleaning



Single-split



Chargeless



Wired controller

TOSHIBA



High-Static Ducted Indoor Unit

CODE			200	230
Performance				
Indoor Unit		RAV-	RM2241DTP-E2	RM2801DTP-E2
Outdoor Unit		RAV-	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	19.0	22.5
	Heating Capacity	kW	22.4	27.0
	EER/COP	W/W	3.24/3.92	2.82/3.59
UK	Cooling Total/Sensible	kW	19.0/15.4	22.8/19.3
	Heating	kW	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	5.86	7.98
	Pdesign	kW	19	22.5
	SEER/Energy Efficiency Class (or ηsc %)		4.62/181.8	4.61/181.4
Heating EN14825	Seasonal Energy Consumption	kWh/a	2468	2928
	Range Min. - Max.	kW	4.6-25.0	4.6-31.5
	Power Input	kW	5.71	7.52
	Pdesign	kW	18.0	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.51/137.4	3.44/134.6
	Seasonal Energy Consumption	kWh/a	7174	8136
Indoor Data				
Air Flow	High - Medium - Low	l/s	1056 - 889 - 694	1333 - 1167 - 972
	High - Medium - Low	m³/h	3800 - 3200 - 2500	4800 - 4200 - 3500
External Static Pressure	Standard (Upper - Lower)	Pa	150 (250 - 50)	150 (250 - 50)
Sound	Pressure High - Medium - Low	dB(A)	44 - 40 - 36	46 - 42 - 38
	Power High - Medium - Low	dB(A)	79 - 75 - 71	81 - 77 - 73
Unit	Height x Width x Depth	mm	448 x 1400 x 900	448 x 1400 x 900
	Weight	kg	97	97
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-15	220-240/1/50-15
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data				
Operating Range	Cooling/Heating	°C	46 to -15/15 to -27	46 to -15/15 to -27
Air Flow	High	m³/h - l/s	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	58/60	61/63
	Power High Cooling/Heating	dB(A)	76/76	78/80
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-100	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	5.0/30	5.0/30
	Additional Charge Liquid Side	g/m	80	80
Run Current	Maximum	A	9.52	13.04
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£3,079	£3,263
OUTDOOR RETAIL PRICE			£4,698	£4,706
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79
SYSTEM RETAIL PRICE			£7,856	£8,048

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Concealed false ceiling installation



Auto-diagnosis



Chargeless



Low ambient cooling to -15°C DB



Self-cleaning



Single-split



Wired controller



Automatic restart



Floor-Mounted Cabinet Indoor Unit

CODE			50	71	100	100	125	125
Performance								
Indoor Unit			RAV-	RM561FT-ES	RM801FT-ES	RM1101FT-ES	RM1101FT-ES	RM1401FT-ES
Outdoor Unit			RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E
Nominal	Cooling Capacity	kW	5.0	6.9	9.5	9.5	12.1	12.1
	Heating Capacity	kW	5.3	7.7	11.2	11.2	13.0	13.0
	EER/COP	W/W	2.79/3.08	2.11/2.41	3.10/3.51	3.10/3.51	2.57/3.24	2.57/3.24
UK	Cooling Total/Sensible	kW	4.80/3.40	6.40/4.40	9.00/6.90	9.50/7.10	11.50/8.20	11.50/8.20
	Heating	kW	3.79	5.51	8.01	8.01	9.30	9.30
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
	Power Input	kW	1.79	3.18	3.06	3.06	4.71	4.71
	Pdesign	kW	5.0	6.7	9.5	9.5	12.1	12.1
	SEER/Energy Efficiency Class (or ηsc %)		5.15/A	4.89/B	5.16/A	5.16/A	4.86/191.4	4.86/191.4
Heating EN14825	Seasonal Energy Consumption	kWh/a	340	479	644	644	1492	1492
	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	1.72	3.20	3.19	3.19	4.01	4.01
	Pdesign	kW	2.8	4.7	7.6	7.6	7.6	7.6
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.00/A+	3.81/A	3.92/A	3.92/A	3.90/153.0	3.90/153.0
	Seasonal Energy Consumption	kWh/a	980	1727	2711	2711	2727	2727
Indoor Data								
Air Flow	High - Medium - Low	l/s	228 - 194 - 167	258 - 214 - 178	461 - 394 - 331	461 - 394 - 331	489 - 411 - 375	489 - 411 - 375
	High - Medium - Low	m³/h	820 - 700 - 600	930 - 770 - 640	1660 - 1420 - 1190	1660 - 1420 - 1190	1760 - 1480 - 1350	1760 - 1480 - 1350
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 38	50 - 45 - 41	51 - 46 - 41	51 - 46 - 41	53 - 48 - 45	53 - 48 - 45
	Power High - Medium - Low	dB(A)	60 - 56 - 52	64 - 60 - 54	65 - 61 - 55	65 - 61 - 55	67 - 62 - 59	67 - 62 - 59
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
	Weight	kg	44	45	59	59	59	59
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Remote Controller (fitted)			RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES
Outdoor Data								
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57	54/57	55/57	55/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	68	69	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	m	R32 - 0.9/20	R32 - 1.3/20	R32 - 2.1/30	R32 - 2.1/30	R32 - 2.1/30	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	20	35	35	35	35	35
Run Current	Maximum	Amps	8.39	15.00	15.43	5.98	22.10	8.23
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-20	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£1,868	£1,998	£2,148	£2,148	£2,248	£2,248
OUTDOOR RETAIL PRICE			£987	£1,301	£1,712	£2,070	£1,804	£2,182
SYSTEM RETAIL PRICE			£2,855	£3,299	£3,860	£4,218	£4,052	£4,430

Accessories

RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12



Twin-Split High-Wall Indoor Unit

CODE		50	69	95	95	120
Performance						
Indoor Unit 1		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	9.5	12.1
	Heating Capacity	kW	5.3	7.7	11.2	13.0
	EER/COP	W/W	3.01/3.42	2.75/2.95	3.19/3.75	2.57/3.37
UK	Cooling Total/Sensible	kW	4.75/3.61	6.36/4.66	9.5/7.22	12.72/9.32
	Heating	kW	3.79	5.51	8.01	9.3
	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 8.0	3.0 - 11.2	3.0 - 13.2
Cooling EN14825	Power Input	kW	1.66	2.44	2.98	4.71
	Pdesign	kW	5.00	6.70	9.50	12.10
	SEER/Energy Efficiency Class		6.19/A++	5.73/A+	5.32/A	5.24/206.6
Heating EN14825	Seasonal Energy Consumption	kWh/a	283	409	625	1385
	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	3.0 - 13.0	3.0 - 16.0
	Power Input	kW	1.55	2.61	2.99	3.86
	Pdesign	kW	2.80	5.10	7.60	13.00
	SCOP/Energy Efficiency Class		4.00/A+	4.01/A+	4.19/A+	4.19/164.6
	Seasonal Energy Consumption	kWh/a	980	1780	2539	2539
Indoor Data						
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	194 - 161 - 125	267 - 231 - 189	289 - 253 - 189
	High - Medium - Low	m³/h	670 - 540 - 450	700 - 580 - 450	960 - 830 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	41 - 36 - 30	42 - 39 - 36	45 - 41 - 35
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 51 - 45	57 - 54 - 51	60 - 56 - 51
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	10	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-L17SE	WH-L17SE	WH-L11SE	WH-L17SE
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57	55/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	68	68
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 0.9	R32 - 1.3	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	20	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	35
Run Current	Maximum	A	7.78	12.23	14.50	22.80
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10
INDOOR RETAIL PRICE			£758	£824	£1,014	£1,014
OUTDOOR RETAIL PRICE			£987	£1,301	£1,712	£2,070
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£1,824	£2,204	£2,805	£3,163

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split High-Wall Indoor Unit (continued)

CODE			120	140	140	200
Performance						
Indoor Unit 1		RAV-	RM801KRTP-E	RM801KRTP-E	RM801KRTP-E	GM1101KRTP-E
Indoor Unit 2		RAV-	RM801KRTP-E	RM801KRTP-E	RM801KRTP-E	GM1101KRTP-E
Outdoor Unit		RAV-	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1
Nominal	Cooling Capacity	kW	12.1	14.0	14.0	20.0
	Heating Capacity	kW	13.0	16.0	16.0	22.4
	EER/COP	W/W	2.57/3.37	2.75/3.21	2.75/3.21	3.00/3.66
UK	Cooling Total/Sensible	kW	12.72/9.32	13.40/9.60	13.40/9.60	20.10/14.40
	Heating	kW	9.3	10.88	10.88	13.78
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0	4.6 - 22.4
	Power Input	kW	4.71	5.09	5.09	6.67
	Pdesign	kW	12.10	12.1	12.1	20.0
	SEER/Energy Efficiency Class (or ηsc %)		5.24/206.6	5.10/201.0	5.10/201.0	5.58/220.2
Heating EN14825	Seasonal Energy Consumption	kWh/a	1385	-	-	-
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0	4.6 - 25.0
	Power Input	kW	3.86	4.98	4.98	6.12
	Pdesign	kW	13.00	13.0	13.0	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.98/196.2	4.98/196.2	3.76/147.4
	Seasonal Energy Consumption	kWh/a	2539	2799	2799	-
Indoor Data						
Air Flow	High - Medium - Low	l/s	289 - 253 - 189	289 - 253 - 189	289 - 253 - 189	447 - 375 - 328
	High - Medium - Low	m³/h	1040 - 910 - 680	1040 - 910 - 680	1040 - 910 - 680	1610 - 1350 - 1180
Sound	Pressure High - Medium - Low	dB(A)	45 - 41 - 35	45 - 41 - 35	45 - 41 - 35	49 - 45 - 41
	Power High - Medium - Low	dB(A)	60 - 56 - 51	60 - 56 - 51	60 - 56 - 51	64 - 60 - 56
Unit	Height x Width x Depth	mm	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250	348 x 1200 x 280
	Weight	kg	14	14	14	19
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-L11SE	WH-TA09NE	WH-TA09NE	WH-TA09NE
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	4200 - 1167	6900 - 1917	6900 - 1917	9150 - 2542
Sound	Pressure High Cooling/Heating	dB(A)	55/57	53/55	53/55	58/60
	Power High Cooling/Heating	dB(A)	70/74	70/72	70/72	76/76
Unit	Height x Width x Depth	mm	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	69	95	94	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.4	R32 - 2.4	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	35	80
	Additional Charge Sub Liquid Side	g/m	35	35	35	40
Run Current	Maximum	A	7.60	24.61	8.20	8.99
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,094	£1,094	£1,094	£1,314
OUTDOOR RETAIL PRICE			£2,182	£2,431	£2,702	£4,698
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£3,355	£3,604	£3,875	£6,091

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Compact Cassette Indoor Unit

CODE			50	67	95	95
Performance						
Indoor Unit 1		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E	RM561MUT-E
Indoor Unit 2		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E	RM561MUT-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	9.5	9.5
	Heating Capacity	kW	5.3	7.7	11.2	11.2
	EER/COP	W/W	3.21/3.9	3.02/3.62	3.17/3.44	3.17/3.44
UK	Cooling Total/Sensible	kW	4.80/3.50	6.90/5.58	9.60/7.00	9.60/7.00
	Heating	kW	3.79	5.12	7.30	7.30
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 8.0	3.0 - 11.2	3.0 - 11.2
	Power Input	kW	1.56	2.22	3.00	3.00
	Pdesign	kW	5.00	6.70	9.50	9.50
	SEER/Energy Efficiency Class		5.69/A+	-	5.50/A	5.50/A
	Seasonal Energy Consumption	kWh/a	319	-	604	604
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	1.36	2.13	3.26	3.26
	Pdesign	kW	2.80	5.10	7.40	7.40
	SCOP/Energy Efficiency Class		4.37/A+	-	4.02/A+	4.02/A+
	Seasonal Energy Consumption	kWh/a	1279	-	2576	2576
Indoor Data						
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	660 - 552 - 468	798 - 672 - 546	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	41 - 36 - 32	44 - 39 - 35	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	56 - 51 - 47	59 - 54 - 50	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	27 x 700 x 700
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	10	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57	55/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 0.9	R32 - 1.3	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	20	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	7.31	10.40	15.44	5.15
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10
INDOOR RETAIL PRICE			£2,164	£2,178	£2,212	£2,212
OUTDOOR RETAIL PRICE			£987	£1,301	£1,712	£2,070
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£3,230	£3,558	£4,003	£4,361

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split 4-Way Cassette Indoor Unit

CODE		95	95	120	120
Performance					
Indoor Unit 1	RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E
Indoor Unit 2	RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E
Outdoor Unit	RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E
Nominal	Cooling Capacity	kW	9.5	12.0	12.0
	Heating Capacity	kW	11.2	11.2	12.8
	EER/COP	W/W	3.31/3.82	3.31/3.82	2.8/3.76
UK	Cooling Total/Sensible	kW	9.10/7.56	9.10/7.56	11.40/8.80
	Heating	kW	8.01	8.01	9.30
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2
	Power Input	kW	2.87	2.87	4.57
	Pdesign	kW	9.50	9.50	12.00
	SEER/Energy Efficiency Class		5.94/A+	5.94/A+	5.71/A+
	Seasonal Energy Consumption	kWh/a	560	560	754
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0
	Power Input	kW	2.93	2.93	3.46
	Pdesign	kW	8.00	8.00	8.00
	SCOP/Energy Efficiency Class		4.28/A+	4.28/A+	4.29/A+
	Seasonal Energy Consumption	kWh/a	2614	2614	2609
Indoor Data					
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	292 - 242 - 217	342 - 267 - 225
	High - Medium - Low	m³/h	1050 - 870 - 780	1050 - 870 - 780	1230 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	32 - 29 - 28	35 - 31 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43	47 - 44 - 43	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	54/57	54/57	55/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	68	69	68
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	35
Run Current	Maximum	A	14.20	4.75	20.75
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32
INDOOR RETAIL PRICE		£1,912	£1,912	£2,054	£2,054
OUTDOOR RETAIL PRICE		£1,712	£2,070	£1,804	£2,182
REMOTE CONTROLLER RBC-AMTU31-E		£79	£79	£79	£79
SYSTEM RETAIL PRICE		£3,703	£4,061	£3,937	£4,315

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split 4-Way Cassette Indoor Unit (continued)

CODE			140	140	200	230
Performance						
Indoor Unit 1		RAV-	RM801UTP-E	RM801UTP-E	RM1101UTP-E	RM1401UTP-E
Indoor Unit 2		RAV-	RM801UTP-E	RM801UTP-E	RM1101UTP-E	RM1401UTP-E
Outdoor Unit		RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	14.0	14.0	20.0	23.5
	Heating Capacity	kW	16.0	16.0	22.4	27.0
	EER/COP	W/W	3.12/3.61	3.12/3.61	3.60/4.23	3.00/3.80
UK	Cooling Total/Sensible	kW	13.30/9.70	13.30/9.70	19.00/15.80	23.80/17.60
	Heating	kW	10.88	10.88	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	4.6-22.4	4.6-27.0
	Power Input	kW	4.49	4.49	5.56	7.83
	Pdesign	kW	14.00	14.00	20.00	23.50
	SEER/Energy Efficiency Class (or η_{sc} %)		6.30/249.0	6.30/249.0	6.53/258.2	6.21/245.4
	Seasonal Energy Consumption	kWh/a	1033	1033	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	3.0 - 18.0	4.6-25.0	4.6-31.5
	Power Input	kW	4.43	4.43	5.30	7.10
	Pdesign	kW	12.00	12.00	22.00	25.00
	SCOP/Energy Efficiency Class (or $\eta_{sc}(A)$ %)		4.43/174.2	4.43/174.2	4.05/159.0	3.90/153.0
	Seasonal Energy Consumption	kWh/a	2575	2575	-	-
Indoor Data						
Air Flow	High - Medium - Low	l/s	342 - 267 - 225	342 - 267 - 225	558 - 40 - 47	583 - 40 - 64
	High - Medium - Low	m ³ /h	1230 - 960 - 810	1230 - 960 - 810	2010 - 1440 - 1170	2100 - 1440 - 1230
Sound	Pressure High - Medium - Low	dB(A)	35 - 31 - 28	35 - 31 - 28	43 - 38 - 33	44 - 38 - 34
	Power High - Medium - Low	dB(A)	50 - 46 - 43	50 - 46 - 43	56 - 53 - 48	59 - 53 - 49
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	20	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4	4	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	3 core + earth	3 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m ³ /h - l/s	6900 - 1917	6900 - 1917	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	53/55	53/55	58/60	61/63
	Power High Cooling/Heating	dB(A)	70/72	70/72	76/76	78/80
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	95	94	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.4	R32 - 2.4	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	80	80
	Additional Charge Sub Liquid Side	g/m	35	35	40	40
Run Current	Maximum	A	21.71	7.23	8.99	12.79
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	2 core + earth	2 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£2,054	£2,054	£2,238	£2,290
OUTDOOR RETAIL PRICE			£2,431	£2,702	£4,698	£4,706
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£4,564	£4,835	£7,015	£7,075

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ceiling Indoor Unit

CODE		70	95	95	121	121
Performance						
Indoor Unit 1		RAV-	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E
Indoor Unit 2		RAV-	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E
Outdoor Unit		RAV-	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E
Nominal	Cooling Capacity	kW	6.9	9.5	9.5	12.1
	Heating Capacity	kW	7.7	11.2	11.2	12.8
	EER/COP	W/W	2.9/3.62	3.22/3.81	3.22/3.81	2.74/3.74
UK	Cooling Total/Sensible	kW	6.60/5.00	9.10/7.18	9.10/7.18	11.50/8.40
	Heating	kW	5.51	8.01	9.30	9.30
Cooling EN14825	Range Min. - Max.	kW	1.5 - 7.4	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2
	Power Input	kW	2.38	2.95	2.95	4.67
	Pdesign	kW	6.90	9.50	9.50	12.00
	SEER/Energy Efficiency Class (or ηsc %)		5.62/A+	5.85/A+	5.85/A+	5.36/211.4
	Seasonal Energy Consumption	kWh/a	429	568	568	660
Heating EN14825	Range Min. - Max.	kW	1.5 - 9.0	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0
	Power Input	kW	2.13	2.94	2.94	3.48
	Pdesign	kW	5.10	7.60	7.60	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.21/A+	4.28/A+	4.28/A+	4.19/164.6
	Seasonal Energy Consumption	kWh/a	2372	2487	2487	2543
Indoor Data						
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150	392 - 278 - 208
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540	1410 - 1000 - 750
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28	41 - 36 - 29
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690
	Weight	kg	23	23	23	29
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	10	10	10
	Max. Length Distributor To Furthest Indoor	m	10	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2700 - 750	4080 - 1133	4080 - 1133	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	48/52	54/57	54/57	55/57
	Power High Cooling/Heating	dB(A)	65/69	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	44	68	69	69
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 1.3	R32 - 2.1	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	35	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	35
Run Current	Maximum	A	11.15	14.30	4.75	21.40
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32
INDOOR RETAIL PRICE			£1,472	£1,606	£1,606	£1,902
OUTDOOR RETAIL PRICE			£1,301	£1,712	£2,070	£2,182
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£2,852	£3,397	£3,755	£4,163

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ceiling Indoor Unit (continued)

CODE		140	140	200	230
Performance					
Indoor Unit 1		RAV-	RM801CTP-E	RM801CTP-E	RM1101CTP-E
Indoor Unit 2		RAV-	RM801CTP-E	RM801CTP-E	RM1101CTP-E
Outdoor Unit		RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1
Nominal	Cooling Capacity	kW	14.0	14.0	20.0
	Heating Capacity	kW	16.0	16.0	22.4
	EER/COP	W/W	3.01/3.47	3.01/3.47	3.91/3.92
UK	Cooling Total/Sensible	kW	13.30/9.30	13.30/9.30	19.00/15.80
	Heating	kW	10.88	10.88	13.78
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	4.6-22.4
Cooling EN14825	Power Input	kW	4.65	4.65	6.17
	Pdesign	kW	14.00	14.00	20.00
	SEER/Energy Efficiency Class (or ηsc %)		5.90/233.0	5.90/233.0	5.67/223.8
Heating EN14825	Seasonal Energy Consumption	kWh/a	831	831	-
	Range Min. - Max.	kW	3.0 - 18.0	3.0 - 18.0	4.6-25.0
	Power Input	kW	4.61	4.61	5.71
	Pdesign	kW	12.00	12.00	20.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.61/181.4	4.61/181.4	3.79/146.6
	Seasonal Energy Consumption	kWh/a	2732	2732	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	392 - 278 - 208	392 - 278 - 208	517 - 375 - 6
	High - Medium - Low	m³/h	1410 - 1000 - 750	1410 - 1000 - 750	1860 - 1350 - 1020
Sound	Pressure High - Medium - Low	dB(A)	41 - 36 - 29	41 - 36 - 29	44 - 38 - 32
	Power High - Medium - Low	dB(A)	56 - 51 - 44	56 - 51 - 44	59 - 53 - 47
Unit	Height x Width x Depth	mm	235 x 1270 x 690	235 x 1270 x 690	235 x 1586 x 690
	Weight	kg	29	29	37
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	3 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6900 - 1917	6900 - 1917	9150 - 2542
Sound	Pressure High Cooling/Heating	dB(A)	53/55	53/55	58/60
	Power High Cooling/Heating	dB(A)	70/72	70/72	76/76
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	95	94	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.4	R32 - 2.4	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	80
	Additional Charge Sub Liquid Side	g/m	35	35	40
Run Current	Maximum	A	22.48	7.49	9.90
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	2 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,902	£1,902	£2,074
OUTDOOR RETAIL PRICE			£2,431	£2,702	£4,698
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£4,412	£4,683	£7,399

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Slim Ducted Indoor Unit

CODE			50	67	95	95
Performance						
Indoor Unit 1		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	9.5	9.5
	Heating Capacity	kW	5.3	7.7	11.2	11.2
	EER/COP	W/W	2.73/3.27	2.82/3.32	3.14/3.75	3.14/3.75
UK	Cooling Total/Sensible	kW	4.80/3.30	-	9.60/6.80	9.60/6.80
	Heating	kW	3.79	-	8.01	8.01
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	3.0 - 11.2	3.0 - 11.2
	Power Input	kW	1.83	2.38	3.03	3.03
	Pdesign	kW	5.00	6.70	9.50	9.50
	SEER/Energy Efficiency Class		5.14/A	-	5.32/A	5.32/A
	Seasonal Energy Consumption	kWh/a	346	-	625	625
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	1.62	2.32	2.99	2.99
	Pdesign	kW	2.80	5.10	7.40	7.40
	SCOP/Energy Efficiency Class		4.16/A+	-	4.19/A+	4.19/A+
	Seasonal Energy Consumption	kWh/a	1517	-	2471	2471
Indoor Data						
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	690 - 600 - 522	780 - 678 - 582	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	10	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15	15
	Drain Pipe Connection Upper - Lower	mm	VP26/20	VP26/20	VP26/20	VP26/20
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57	55/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 0.9	R32 - 1.3	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	20	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	8.58	11.20	14.70	4.90
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10
INDOOR RETAIL PRICE			£1,460	£1,492	£1,522	£1,522
OUTDOOR RETAIL PRICE			£987	£1,301	£1,712	£2,070
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£2,526	£2,872	£3,313	£3,671

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ducted Indoor Unit

CODE		95	95	121	121
Performance					
Indoor Unit 1		RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E
Indoor Unit 2		RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E
Outdoor Unit		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E
Nominal	Cooling Capacity	kW	9.5	9.5	12.1
	Heating Capacity	kW	11.2	11.2	12.8
	EER/COP	W/W	3.18/3.75	3.18/3.75	2.74/3.61
UK	Cooling Total/Sensible	kW	9.10/7.37	9.10/7.37	11.15/8.90
	Heating	kW	8.01	8.01	9.30
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2
	Power Input	kW	2.99	2.99	4.42
	Pdesign	kW	9.50	9.50	12.00
	SEER/Energy Efficiency Class (or ηsc %)		5.28/A	5.28/A	5.36/211.4
	Seasonal Energy Consumption	kWh/a	630	630	707
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0
	Power Input	kW	2.99	2.99	3.60
	Pdesign	kW	7.60	7.60	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.22/A+	4.22/A+	4.21/165.4
	Seasonal Energy Consumption	kWh/a	2520	2520	2569
Indoor Data					
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	222 - 175 - 133	333 - 258 - 200
	High - Medium - Low	m³/h	800 - 630 - 480	800 - 630 - 480	1200 - 930 - 720
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	33 - 29 - 25	34 - 30 - 26
	Power High - Medium - Low	dB(A)	48 - 44 - 40	48 - 44 - 40	49 - 45 - 41
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 700 x 750	275 x 1000 x 750
	Weight	kg	23	23	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	54/57	54/57	55/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	68	69	69
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	35
Run Current	Maximum	A	14.50	4.85	21.40
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32
INDOOR RETAIL PRICE			£1,436	£1,436	£1,852
OUTDOOR RETAIL PRICE			£1,712	£2,070	£2,182
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£3,227	£3,585	£4,113

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ducted Indoor Unit (continued)

CODE			140	140	200	230
Performance						
Indoor Unit 1		RAV-	RM801BTP-E	RM801BTP-E	RM1101BTP-E	RM1401BTP-E
Indoor Unit 2		RAV-	RM801BTP-E	RM801BTP-E	RM1101BTP-E	RM1401BTP-E
Outdoor Unit		RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	14.0	14.0	20.0	23.5
	Heating Capacity	kW	16.0	16.0	22.4	27.0
	EER/COP	W/W	2.73/3.41	2.73/3.41	3.24/4.02	2.65/3.62
UK	Cooling Total/Sensible	kW	13.30/9.70	13.30/9.70	19.00/15.80	23.80/18.00
	Heating	kW	10.88	10.88	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	4.6-22.4	4.6-27.0
	Power Input	kW	5.13	5.13	6.17	8.87
	Pdesign	kW	14.00	14.00	20.00	23.50
	SEER/Energy Efficiency Class (or ηsc %)		5.30/209.0	5.30/209.0	5.03/198.2	4.92/193.8
	Seasonal Energy Consumption	kWh/a	925	925	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	3.0 - 18.0	4.6-25.0	4.6-31.5
	Power Input	kW	4.69	4.69	5.57	7.46
	Pdesign	kW	12.00	12.00	22.00	25.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.43/174.2	4.43/174.2	3.72/145.8	3.64/142.6
	Seasonal Energy Consumption	kWh/a	2782	2782	-	-
Indoor Data						
Air Flow	High - Medium - Low	l/s	333 - 258 - 200	333 - 258 - 200	583 - 48 - 139	583 - 48 - 139
	High - Medium - Low	m³/h	1200 - 930 - 720	1200 - 930 - 720	2100 - 1740 - 1500	2100 - 1740 - 1500
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	50 (120-30)	50 (120-30)
Sound	Pressure High - Medium - Low	dB(A)	34 - 30 - 26	34 - 30 - 26	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	49 - 45 - 41	49 - 45 - 41	63 - 58 - 54	63 - 58 - 54
Unit	Height x Width x Depth	mm	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6900 - 1917	6900 - 1917	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	53/55	53/55	58/60	61/63
	Power High Cooling/Heating	dB(A)	70/72	70/72	76/76	78/80
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	95	94	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.4	R32 - 2.4	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	80	80
	Additional Charge Sub Liquid Side	g/m	35	35	40	40
Run Current	Maximum	A	24.80	8.27	9.97	14.49
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£1,852	£1,852	£2,118	£2,366
OUTDOOR RETAIL PRICE			£2,431	£2,702	£4,698	£4,706
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£4,362	£4,633	£6,895	£7,151

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Floor-Mounted Cabinet Indoor Unit

CODE			100	100	125	125	200	230	
Performance									
Indoor Unit 1		RAV-	RM561FT-ES	RM561FT-ES	RM801FT-ES	RM801FT-ES	RM1101FT-ES	RM1401FT-ES	
Indoor Unit 2		RAV-	RM561FT-ES	RM561FT-ES	RM801FT-ES	RM801FT-ES	RM1101FT-ES	RM1401FT-ES	
Outdoor Unit		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	GM2241AT8-E1	GM2801AT8-E1	
Nominal	Cooling Capacity	kW	09.5	09.5	12.1	12.1	20.0	23.5	
	Heating Capacity	kW	11.2	11.2	12.8	12.8	22.4	27.0	
	EER/COP	W/W	3.10/3.51	3.10/3.51	2.57/3.24	2.57/3.24	3.24/3.98	2.65/3.29	
UK	Cooling Total/Sensible	kW	9.50/7.10	9.50/7.10	11.50/8.20	11.50/8.20	23.80/17.80	23.80/17.80	
	Heating	kW	8.01	8.01	9.30	9.30	13.78	16.73	
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2	4.6- 22.4	4.6- 27.0	
	Power Input	kW	3.06	3.06	4.71	4.71	6.17	8.87	
	Pdesign	kW	9.5	9.5	12.1	12.1	20.00	23.50	
	SEER/Energy Efficiency Class (or ηsc %)			5.16/A	5.16/A	4.86/191.4	4.86/191.4	5.08/200.2	4.87/191.8
	Seasonal Energy Consumption	kWh/a	644	644	1492	1492	-	-	
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0	4.6- 25.0	4.6- 31.5	
	Power Input	kW	3.19	3.19	4.01	4.01	5.63	8.21	
	Pdesign	kW	7.6	7.6	7.6	7.6	22.40	25.00	
	SCOP/Energy Efficiency Class (or ηsc(A) %)			3.92/A	3.92/A	3.90/153.0	3.90/153.0	3.60/141.0	3.57/139.8
	Seasonal Energy Consumption	kWh/a	2708	2708	2727	2727	-	-	
Indoor Data		RAV-	RM561FT-ES	RM561FT-ES	RM801FT-ES	RM801FT-ES	RM1101FT-ES	RM1401FT-ES	
Air Flow	High - Medium - Low	l/s	228 - 194 - 167	228 - 194 - 167	258 - 214 - 178	258 - 214 - 178	461 - 394 - 331	489 - 411 - 375	
	High - Medium - Low	m³/h	820 - 700 - 600	820 - 700 - 600	930 - 770 - 640	930 - 770 - 640	1660 - 1420 - 1190	1760 - 1480 - 1350	
Sound Pressure	High - Medium - Low	dB(A)	46 - 42 - 38	46 - 42 - 38	50 - 45 - 41	50 - 45 - 41	51 - 46 - 41	53 - 48 - 45	
Sound Power	High - Medium - Low	dB(A)	60 - 56 - 52	60 - 56 - 52	64 - 60 - 54	64 - 60 - 54	65 - 61 - 55)	67 - 62 - 59	
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	
	Weight	kg	44	44	45	45	59	59	
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2	
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10	10	
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15	15	
	Drain Pipe Connection Upper - Lower	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	
Remote Controller (fitted)			RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	
Outdoor Data		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	GM2241AT8-E1	GM2801AT8-E1	
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15	
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167	9150 - 2542	10890 - 3025	
Sound	Pressure High Cooling/Heating	dB(A)	54/57	54/57	55/57	55/57	58/60	61/63	
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74	76/76	78/80	
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370	
	Weight	kg	68	69	68	69	142	142	
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2	
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-100	5-100	
	Maximum Height Difference	m	±30	±30	±30	±30	±30	±30	
	Drain Port Connection	mm	16	16	16	16	16	16	
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 5.0	R32 - 5.0	
	Additional Charge Main Liquid Side	g/m	35	35	35	35	80	80	
	Additional Charge Sub Liquid Side	g/m	20	20	35	35	40	40	
Run Current	Maximum	A	14.30	4.75	21.40	7.15	10.15	14.49	
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16	380-415/3/50-20	
INDOOR RETAIL PRICE			£3,736	£3,736	£3,996	£3,996	£4,296	£4,496	
OUTDOOR RETAIL PRICE			£1,712	£2,070	£1,804	£2,182	£4,698	£4,706	
SYSTEM RETAIL PRICE			£5,448	£5,806	£5,800	£6,178	£8,994	£9,202	

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split High-Wall Indoor Unit

CODE			95	95	120	120
Performance						
Indoor Unit 1		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E
Indoor Unit 3		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E
Outdoor Unit		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E
Nominal	Cooling Capacity	kW	9.5	9.5	12.1	12.1
	Heating Capacity	kW	11.2	11.2	13.0	13.0
	EER/COP	W/W	3.19/3.75	3.19/3.75	2.57/3.37	2.57/3.37
UK	Cooling Total/Sensible	kW	9.5/7.22	9.5/7.22	12.72/9.32	12.72/9.32
	Heating	kW	8.01	8.01	9.3	9.3
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
	Power Input	kW	2.98	2.98	4.71	4.71
	Pdesign	kW	10.00	10.00	6.70	6.70
	SEER/Energy Efficiency Class (or ηsc %)		5.32/A	5.13/A	5.24/206.6	5.24/206.6
	Seasonal Energy Consumption		kWh/a	682	687	687
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	2.99	2.99	3.86	3.86
	Pdesign	kW	7.60	7.60	8.00	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/A+	4.18/A+	4.19/164.6	4.19/164.6
	Seasonal Energy Consumption		kWh/a	2546	2661	2661
Indoor Data		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	186 - 150 - 125	194 - 161 - 125	194 - 161 - 125
	High - Medium - Low	m³/h	670 - 540 - 450	670 - 540 - 450	700 - 580 - 450	700 - 580 - 450
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	40 - 34 - 29	41 - 36 - 30	41 - 36 - 30
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 49 - 44	55 - 51 - 45	55 - 51 - 45
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	10	10	10	10
Pipe Connection	Flare Connections (gas - liquid)		inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor		m	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)			RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15
	Drain Pipe Connection ID/OD	mm	VP16/14	VP16/14	VP16/14	VP16/14
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-L17SE	WH-L17SE	WH-L17SE	WH-L17SE
Outdoor Data		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	54/57	54/57	55/57	55/57
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	68	69	68	69
Pipe Connection	Flare Connections (gas - liquid)		inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1
	Additional Charge Main Liquid Side	g/m	35	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	15.14	3.22	22.78	4.92
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£1,137	£1,137	£1,236	£1,236
OUTDOOR RETAIL PRICE			£1,712	£2,070	£1,804	£2,182
RBC-TRP100E			£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£3.191	£3.549	£3.382	£3.760

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split High-Wall Indoor Unit (continued)

CODE		140	140	200	230
Performance					
Indoor Unit 1		RAV-	RM561KRTP-E	RM561KRTP-E	RM801KRTP-E
Indoor Unit 2		RAV-	RM561KRTP-E	RM561KRTP-E	RM801KRTP-E
Indoor Unit 3		RAV-	RM561KRTP-E	RM561KRTP-E	RM801KRTP-E
Outdoor Unit		RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1
Nominal	Cooling Capacity	kW	14.0	14.0	20.0
	Heating Capacity	kW	16.0	16.0	22.4
	EER/COP	W/W	3.21/3.21	3.21/3.21	3.00/3.66
UK	Cooling Total/Sensible	kW	14.40/11.70	14.40/11.70	20.10/14.40
	Heating	kW	10.88	10.88	13.78
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	4.6-22.4
	Power Input	kW	4.98	4.98	6.67
	Pdesign	kW	14.0	14.0	20.0
	SEER/Energy Efficiency Class (or ηsc %)		5.10/201.0	5.10/201.0	5.58/220.2
	Seasonal Energy Consumption		kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	3.0 - 18.0	4.6-25.0
	Power Input	kW	4.98	4.98	6.12
	Pdesign	kW	12.0	12.0	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.00/157.0	4.00/157.0	3.76/147.4
	Seasonal Energy Consumption		kWh/a	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	267 - 231 - 189	267 - 231 - 189	289 - 253 - 189
	High - Medium - Low	m³/h	960 - 830 - 680	960 - 830 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	42 - 39 - 36	42 - 39 - 36	45 - 41 - 35
	Power High - Medium - Low	dB(A)	57 - 54 - 51	57 - 54 - 51	60 - 56 - 51
Unit	Height x Width x Depth	mm	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
	Remote Controller (Infra-Red - hard-wired recommended)		WH-TA09NE	WH-TA09NE	WH-TA09NE
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6900 - 1917	6900 - 1917	9150 - 2542
Sound	Pressure High Cooling/Heating	dB(A)	53/55	53/55	58/60
	Power High Cooling/Heating	dB(A)	70/72	70/72	76/76
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	95	94	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.4	R32 - 2.4	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	80
	Additional Charge Sub Liquid Side	g/m	20	20	40
Run Current	Maximum	A	24.08	8.02	10.78
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,521	£1,521	£1,641
OUTDOOR RETAIL PRICE			£2,431	£2,702	£4,698
RBC-TRP100E			£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£4,294	£4,565	£6,681

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Compact Cassette Indoor Unit

CODE		95	95	120	120	140	140
Performance							
Indoor Unit 1	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E	RM561MUT-E
Indoor Unit 2	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E	RM561MUT-E
Indoor Unit 3	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E	RM561MUT-E
Outdoor Unit	RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Nominal	Cooling Capacity	kW	9.5	9.5	12.0	12.0	14.0
	Heating Capacity	kW	11.2	11.2	12.8	12.8	16.0
	EER/COP	W/W	3.17/3.44	3.17/3.44	2.8/3.76	2.8/3.76	2.82/3.41
UK	Cooling Total/Sensible	kW	9.60/7.00	9.60/7.00	10.35/8.37	10.35/8.37	14.40/10.80
	Heating	kW	7.30	7.30	7.68	7.68	10.88
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0
	Power Input	kW	3.00	3.00	4.57	4.57	4.96
	Pdesign	kW	9.50	9.50	12.00	12.00	14.00
	SEER/Energy Efficiency Class (or ηsc %)		5.50/A	5.50/A	-	-	5.10/201.0
	Seasonal Energy Consumption	kWh/a	597	597	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0
	Power Input	kW	3.26	3.26	3.46	3.46	4.69
	Pdesign	kW	7.40	7.40	8.00	8.00	12.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.02/A+	4.02/A+	-	-	4.00/157.0
	Seasonal Energy Consumption	kWh/a	2616	2616	-	-	-
Indoor Data							
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468	660 - 552 - 468	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	38 - 36 - 30	41 - 36 - 32	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53 - 51 - 45	56 - 51 - 47	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	27 x 700 x 700
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	2.5	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167	6900 - 1917
Sound	Pressure High Cooling/Heating	dB(A)	54/57	55/57	55/57	55/57	53/55
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74	70/72
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	68	69	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.4
	Additional Charge Main Liquid Side	g/m	35	35	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20
Run Current	Maximum	A	15.44	5.15	20.75	6.90	23.98
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32
INDOOR RETAIL PRICE			£3,246	£3,246	£3,267	£3,267	£3,318
OUTDOOR RETAIL PRICE			£1,712	£2,070	£1,804	£2,182	£2,431
RBC-TRP100E			£263	£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£5,300	£5,658	£5,413	£5,791	£6,362

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split 4-Way Cassette Indoor Unit

CODE			140	140	200	230
Performance						
Indoor Unit 1		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E
Indoor Unit 2		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E
Indoor Unit 3		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E
Outdoor Unit		RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	14.0	14.0	20.0	23.5
	Heating Capacity	kW	16.0	16.0	22.4	27.0
	EER/COP	W/W	3.12/3.61	3.12/3.61	3.60/4.23	3.00/3.80
UK	Cooling Total/Sensible	kW	14.40/11.70	14.40/11.70	22.20/18.60	22.20/18.60
	Heating	kW	10.88	10.88	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	4.6-22.4	4.6-27.0
	Power Input	kW	4.49	4.49	5.56	7.83
	Pdesign	kW	14.0	14.0	20.00	23.50
SEER/Energy Efficiency Class (or ηsc %)			6.30/249.0	6.30/249.0	6.57/259.8	6.24/246.6
Seasonal Energy Consumption		kWh/a	1033	1033	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	3.0 - 18.0	4.6-25.0	4.6-31.5
	Power Input	kW	4.43	4.43	5.30	7.10
	Pdesign	kW	12.0	12.0	22.00	25.00
SCOP/Energy Efficiency Class (or ηsc(A) %)			4.35/171.0	4.35/171.0	4.05/159.0	3.91/153.4
Seasonal Energy Consumption		kWh/a	2575	2575	-	-
Indoor Data		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	292 - 242 - 217	342 - 267 - 225	342 - 267 - 225
	High - Medium - Low	m³/h	1050 - 870 - 780	1050 - 870 - 780	1230 - 960 - 810	1230 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	32 - 29 - 28	35 - 31 - 28	35 - 31 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43	47 - 44 - 43	50 - 46 - 43	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4.2	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	20	20
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP25 - VP25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data		RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6900 - 1917	6900 - 1917	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	53/55	53/55	58/60	61/63
	Power High Cooling/Heating	dB(A)	70/72	70/72	76/76	78/80
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	95	94	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.4	R32 - 2.4	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	80	80
	Additional Charge Sub Liquid Side	g/m	20	20	40	40
Run Current	Maximum	A	21.71	7.23	8.99	12.79
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£2,868	£2,868	£3,081	£3,081
OUTDOOR RETAIL PRICE			£2,431	£2,702	£4,698	£4,706
RBC-TRP100E			£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£5,641	£5,912	£8,121	£8,129

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Ceiling Indoor Unit

CODE			121	121	140	140	200	230
Performance								
Indoor Unit 1	RAV-	RM401CTP-E	RM401CTP-E	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E	RM801CTP-E
Indoor Unit 2	RAV-	RM401CTP-E	RM401CTP-E	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E	RM801CTP-E
Indoor Unit 3	RAV-	RM401CTP-E	RM401CTP-E	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E	RM801CTP-E
Outdoor Unit	RAV-	GM1401ATP-E	GM1401AT8P-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	14.0	20.0	23.5
	Heating Capacity	kW	12.8	12.8	16.0	16.0	22.4	27.0
	EER/COP	W/W	2.74/3.74	2.74/3.74	3.01/3.47	3.01/3.47	3.24/3.92	2.62/3.57
UK	Cooling Total/Sensible	kW	11.50/8.40	11.50/8.40	14.40/11.70	14.40/11.70	22.20/16.50	22.20/16.50
	Heating	kW	9.30	9.30	10.88	10.88	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0	4.6-22.4	4.6-27.0
	Power Input	kW	4.67	4.67	4.65	4.65	6.17	8.97
	Pdesign	kW	12.00	12.00	14.0	14.0	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		5.36/211.4	5.36/211.4	5.90/233.0	5.90/233.0	5.59/220.6	5.16/203.4
	Seasonal Energy Consumption	kWh/a	660	660	831	831	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0	4.6-25.0	4.6-31.5
	Power Input	kW	3.48	3.48	4.61	4.61	5.71	7.56
	Pdesign	kW	8.00	8.00	12.0	12.0	20.0	22.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.19/164.6	4.10/161.0	4.10/161.0	3.79/148.6	3.65/143.0
	Seasonal Energy Consumption	kWh/a	2543	2543	2732	2732	-	-
Indoor Data								
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150	392 - 278 - 208	392 - 278 - 208
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540	1410 - 1000 - 750	1410 - 1002 - 750
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28	41 - 36 - 29	41 - 36 - 29
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43	56 - 51 - 44	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1270 x 690
	Weight	kg	23	23	23	23	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	20	20
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMT32E
Outdoor Data								
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6900 - 1917	6900 - 1917	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	53/55	53/55	58/60	61/63
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/72	70/72	76/76	78/80
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	68	69	95	94	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.4	R32 - 2.4	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	35	35	80	80
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	40	40
Run Current	Maximum	A	21.40	7.15	22.48	7.49	9.97	14.65
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£2,208	£2,208	£2,409	£2,409	£2,853	£2,853
OUTDOOR RETAIL PRICE			£1,804	£2,182	£2,431	£2,702	£4,698	£4,706
RBC-TRP100E			£263	£263	£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£4,354	£4,732	£5,182	£5,453	£7,893	£7,901

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Slim Ducted Indoor Unit

CODE			95	95	121	121	140	140
Performance								
Indoor Unit 1	RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E	
Indoor Unit 2	RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E	
Indoor Unit 3	RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E	
Outdoor Unit	RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E	
Nominal	Cooling Capacity	kW	9.5	9.5	12.1	12.1	14.0	14.0
	Heating Capacity	kW	11.2	11.2	12.8	12.8	16.0	16.0
	EER/COP	W/W	3.14/3.75	3.14/3.75	2.74/3.61	2.74/3.61	2.81/3.41	2.81/3.41
UK	Cooling Total/Sensible	kW	9.60/6.80	9.60/6.80	10.35/8.52	10.35/8.52	14.40/10.80	14.40/10.80
	Heating	kW	8.01	8.01	7.68	7.68	10.88	10.88
Cooling EN14825	Range Min. - Max.	kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	3.03	3.03	4.67	4.42	4.98	4.98
	Pdesign	kW	9.50	9.50	12.00	12.00	14.00	14.00
	SEER/Energy Efficiency Class (or nsc %)		5.32/A	5.32/A	-	-	5.10/201.0	5.10/201.0
	Seasonal Energy Consumption	kWh/a	696	696	-	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0
	Power Input	kW	2.99	2.99	3.60	3.60	4.69	4.69
	Pdesign	kW	7.40	7.40	8.00	8.00	12.00	12.00
	SCOP/Energy Efficiency Class (or nsc(A) %)		4.19/A+	4.19/A+	-	-	4.00/157.0	4.00/157.0
	Seasonal Energy Consumption	kWh/a	2569	2569	-	-	-	-

Indoor Data		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145	192 - 167 - 145	217 - 188 - 162	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	660 - 560 - 480	690 - 600 - 522	690 - 600 - 522	780 - 678 - 582	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	29 (4-44)	29 (4-44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	-	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	45 - 43 - 41	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	-	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167	6900 - 1917	6900 - 1917
Sound	Pressure High Cooling/Heating	dB(A)	54/57	55/57	55/57	55/57	53/55	53/55
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/74	70/74	70/72	70/72
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	68	69	95	94
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.4	R32 - 2.4
	Additional Charge Main Liquid Side	g/m	35	35	35	35	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20	20
Run Current	Maximum	A	14.70	4.90	21.40	7.15	24.08	8.03
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16

INDOOR RETAIL PRICE	£2,190	£2,190	£2,238	£2,238	£2,283	£2,283
OUTDOOR RETAIL PRICE	£1,712	£2,070	£1,804	£2,182	£2,431	£2,702
RBC-TRP100E	£263	£263	£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E	£79	£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE	£4,244	£4,602	£4,384	£4,762	£5,056	£5,327

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Ducted Indoor Unit

CODE			140	140	200	230
Performance						
Indoor Unit 1	RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E	RM801BTP-E	
Indoor Unit 2	RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E	RM801BTP-E	
Indoor Unit 3	RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E	RM801BTP-E	
Outdoor Unit	RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1	
Nominal	Cooling Capacity	kW	14.0	14.0	20.0	23.5
	Heating Capacity	kW	16.0	16.0	22.4	27.0
	EER/COP	W/W	2.73/3.41	2.73/3.41	3.24/4.02	2.65/3.62
UK	Cooling Total/Sensible	kW	14.40/12.00	14.40/12.00	22.20/15.90	22.20/15.90
	Heating	kW	10.88	10.88	13.78	16.73
	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	4.6-22.4	4.6-27.0
Cooling EN14825	Power Input	kW	5.13	5.13	6.17	8.87
	Pdesign	kW	14.0	14.0	20.00	23.50
	SEER/Energy Efficiency Class (or ηsc %)		5.30/209.0	5.30/209.0	5.22/205.8	5.59/220.6
	Seasonal Energy Consumption	kWh/a	925	925	-	-
	Range Min. - Max.	kW	3.0 - 18.0	3.0 - 18.0	4.6-25.0	4.6-31.5
Heating EN14825	Power Input	kW	4.69	4.69	5.57	7.46
	Pdesign	kW	12.0	12.0	22.00	25.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.90/153.0	3.90/153.0	3.74/146.6	3.65/143.0
	Seasonal Energy Consumption	kWh/a	2782	2782	-	-
	Range Min. - Max.	kW	3.0 - 18.0	3.0 - 18.0	4.6-25.0	4.6-31.5
Indoor Data						
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	222 - 175 - 133	333 - 258 - 200	333 - 258 - 200
	High - Medium - Low	m³/h	800 - 630 - 480	800 - 630 - 480	1200 - 930 - 720	1200 - 930 - 720
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	33 - 29 - 25	34 - 30 - 26	34 - 30 - 26
	Power High - Medium - Low	dB(A)	48 - 44 - 40	48 - 44 - 40	49 - 45 - 41	49 - 45 - 41
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 700 x 750	275 x 1000 x 750	275 x 1000 x 750
	Weight	kg	23	23	30	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	20	20
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6900 - 1917	6900 - 1917	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	53/55	53/55	58/60	61/63
	Power High Cooling/Heating	dB(A)	70/72	70/72	76/76	78/80
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	95	94	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.4	R32 - 2.4	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	80	80
	Additional Charge Sub Liquid Side	g/m	20	20	40	40
Run Current	Maximum	A	24.81	8.27	9.97	14.49
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£2,154	£2,154	£2,778	£2,778
OUTDOOR RETAIL PRICE			£2,431	£2,702	£4,698	£4,706
RBC-TRP100E			£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£4,927	£5,198	£7,818	£7,826

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Floor-Mounted Cabinet Indoor Unit

CODE			200	230
Performance				
Indoor Unit 1		MMF-	RM801FT-ES	RM801FT-ES
Indoor Unit 2		MMF-	RM801FT-ES	RM801FT-ES
Indoor Unit 3		MMF-	RM801FT-ES	RM801FT-ES
Outdoor Unit		RAV-	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	20.0	23.5
	Heating Capacity	kW	22.4	27.0
	EER/COP	W/W	3.24/3.98	2.65/3.29
UK	Cooling Total/Sensible	kW	19.20/13.20	19.20/13.20
	Heating	kW	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	4.6- 22.4	4.6- 27.0
	Power Input	kW	6.17 (1.01-8.83)	8.87 (1.01-11.69)
	Pdesign	kW	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		5.08/200.2	4.87/191.8
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	4.6- 25.0	4.6- 31.5
	Power Input	kW	5.63 (0.93-9.93)	8.21 (0.93-13.65)
	Pdesign	kW	22.4	25.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.60/141.0	3.57/139.8
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	258 - 214 - 178	258 - 214 - 178
	High - Medium - Low	m³/h	930 - 770 - 640	930 - 770 - 640
Sound	Pressure High - Medium - Low	dB(A)	50 - 45 - 41	50 - 45 - 41
	Power High - Medium - Low	dB(A)	64 - 60 - 54	64 - 60 - 54
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	45	45
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	20	20
	Drain Pipe Connection	mm	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller (fitted)			RBC-AMS55E-ES	RBC-AMS55E-ES
Outdoor Data				
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	58/60	61/63
	Power High Cooling/Heating	dB(A)	76/76	78/80
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-100	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	80	80
	Additional Charge Sub Liquid Side	g/m	40	40
Run Current	Maximum	A	10.15	14.49
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£5,994	£5,994
OUTDOOR RETAIL PRICE			£4,698	£4,706
RBC-TRP100E			£263	£263
SYSTEM RETAIL PRICE			£10,955	£10,963

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split High-Wall Indoor Unit

CODE		121	121	140	140	200	230
Performance							
Indoor Unit 1	RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Indoor Unit 2	RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Indoor Unit 3	RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Indoor Unit 4	RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Outdoor Unit	RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	14.0	20.0
	Heating Capacity	kW	13.0	13.0	16.0	16.0	22.4
	EER/COP	W/W	2.57/3.37	2.57/3.37	3.21/3.21	3.21/3.21	3.00/3.66
UK	Cooling Total/Sensible	kW	12.72/9.32	12.72/9.32	13.40/9.60	13.40/9.60	19.20/15.60
	Heating	kW	9.3	9.3	10.88	10.88	13.78
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0	4.6-22.4
	Power Input	kW	4.71	4.71	4.98	4.98	6.67
	Pdesign	kW	6.70	6.70	14.0	14.0	20.0
	SEER/Energy Efficiency Class (or ηsc %)		5.24/206.6	5.24/206.6	5.09/201.0	5.10/201.0	5.60/221.0
	Seasonal Energy Consumption	kWh/a	687	687	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0	4.6-25.0
	Power Input	kW	3.86	3.86	4.98	4.98	6.12
	Pdesign	kW	8.00	8.00	12.0	12.0	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.19/164.6	4.00/157.0	4.00/157.0	3.77/147.8
	Seasonal Energy Consumption	kWh/a	2661	2661	-	-	-

Indoor Data		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM561KRTP-E	RM801KRTP-E
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	186 - 150 - 125	194 - 161 - 125	194 - 161 - 125	267 - 231 - 189	289 - 253 - 189
	High - Medium - Low	m³/h	670 - 540 - 450	670 - 540 - 450	700 - 580 - 450	700 - 580 - 450	960 - 830 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	40 - 34 - 29	41 - 36 - 30	41 - 36 - 30	42 - 39 - 36	45 - 41 - 35
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 49 - 44	55 - 51 - 45	55 - 51 - 45	57 - 54 - 51	60 - 56 - 51
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	10	10	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	5	5	5	5	6	6
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15	15	20	20
	Max. Distance From Second Distributor To Indoors	m	10	10	10	10	10	10
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14	VP16	VP16
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-TA09NE	WH-TA09NE	WH-TA09NE	WH-TA09NE	WH-TA09NE	WH-TA09NE

Outdoor Data		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6900 - 1917	6900 - 1917	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	53/55	53/55	58/60	61/63
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/72	70/72	76/76	78/80
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	68	69	95	94	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-100	5-100
	Maximum Height Difference	m	±30	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.4	R32 - 2.4	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	35	35	80	80
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20	20	35	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20	40
Run Current	Maximum	A	22.78	4.92	24.08	8.03	10.78	15.06
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16	380-415/3/50-20

INDOOR RETAIL PRICE	£1,516	£1,516	£1,648	£1,648	£2,028	£2,188
OUTDOOR RETAIL PRICE	£1,804	£2,182	£2,431	£2,702	£4,698	£4,706
REMOTE CONTROLLER RBC-AMTU31-E	£79	£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE	£3,399	£3,777	£4,158	£4,429	£6,805	£6,973

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Compact Cassette Indoor Unit

CODE		121	121	140	140	200
Performance						
Indoor Unit 1	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 2	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 3	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 4	RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Outdoor Unit	RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1
Nominal	Cooling Capacity	kW	12.1	12.1	12.1	20.0
	Heating Capacity	kW	12.8	12.8	16.0	22.4
	EER/COP	W/W	2.8/3.76	2.8/3.76	2.82/3.41	3.15/3.66
UK	Cooling Total/Sensible	kW	10.35/8.37	10.35/8.37	14.40/10.80	19.20/14.40
	Heating	kW	7.68	7.68	10.88	13.78
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	4.6-22.4
	Power Input	kW	4.57	4.57	4.96	6.35
	Pdesign	kW	12.00	12.00	14.00	20.0
	SEER/Energy Efficiency Class (or ηsc %)		-	-	5.10/201.0	6.00/237.0
	Seasonal Energy Consumption	kWh/a	-	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	4.6-25.0
	Power Input	kW	3.46	3.46	4.69	6.31
	Pdesign	kW	8.00	8.00	12.00	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		-	-	4.00/157.0	4.03/156.2
	Seasonal Energy Consumption	kWh/a	-	-	-	-
Indoor Data						
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	38 - 36 - 30	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53 - 51 - 45	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15
Panel	Height x Width x Depth	mm	15 x 620 x 620	15 x 620 x 620	15 x 620 x 620	15 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	3
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	5	5	5	6
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15	20
	Max. Distance From Second Distributor To Indoors	m	10	10	10	10
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6900 - 1917	9150 - 2542
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	53/55	58/60
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/72	76/76
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	95	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.4	R32 - 2.4
	Additional Charge Main Liquid Side	g/m	35	35	35	80
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	20.75	6.9	23.98	7.99
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16
INDOOR RETAIL PRICE			£4,328	£4,328	£4,356	£4,356
OUTDOOR RETAIL PRICE			£1,804	£2,182	£2,431	£2,702
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£6,211	£6,589	£6,866	£7,137
						£9,201

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split 4-Way Cassette Indoor Unit

CODE			200	230
Performance				
Indoor Unit 1		RAV-	RM561UTP-E	RM801UTP-E
Indoor Unit 2		RAV-	RM561UTP-E	RM801UTP-E
Indoor Unit 3		RAV-	RM561UTP-E	RM801UTP-E
Indoor Unit 4		RAV-	RM561UTP-E	RM801UTP-E
Outdoor Unit		RAV-	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	20.0	23.5
	Heating Capacity	kW	22.4	27.0
	EER/COP	W/W	3.60/4.23	3.00/3.80
UK	Cooling Total/Sensible	kW	19.20/15.60	19.20/15.60
	Heating	kW	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	4.6-22.4	4.6-27.0
	Power Input	kW	5.56	7.83
	Pdesign	kW	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		6.57/259.8	6.16/243.4
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	4.6-25.0	4.6-31.5
	Power Input	kW	5.30	7.10
	Pdesign	kW	22.0	25.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.05/159.0	3.90/153.0
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data		RAV-	RM561UTP-E	RM801UTP-E
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	342 - 267 - 225
	High - Medium - Low	m³/h	1050 - 870 - 780	1230 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	35 - 31 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	6	6
	Max. Length Main Distributor To Furthest Indoor	m	20	20
	Max. Distance From Second Distributor To Indoors	m	10	10
	Drain Pipe Connection OD/ID	mm	VP25	VP25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data		RAV-	GM2241AT8-E1	GM2801AT8-E1
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	58/60	61/63
	Power High Cooling/Heating	dB(A)	76/76	78/80
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-100	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	80	80
	Additional Charge Second Dist. Liquid Side	g/m	35	35
	Additional Charge Sub Liquid Side	g/m	20	40
Run Current	Maximum	A	8.99	12.79
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£3,824	£4,108
OUTDOOR RETAIL PRICE			£4,698	£4,706
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79
SYSTEM RETAIL PRICE			£8,601	£8,893

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Ceiling Indoor Unit

CODE		140	140	200	230
Performance					
Indoor Unit 1		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Indoor Unit 2		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Indoor Unit 3		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Indoor Unit 4		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Outdoor Unit		RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1
Nominal	Cooling Capacity	kW	14.0	14.0	20.0
	Heating Capacity	kW	16.0	16.0	22.4
	EER/COP	W/W	3.01/3.47	3.01/3.47	3.24/3.92
UK	Cooling Total/Sensible	kW	13.30/9.30	13.30/9.30	19.20/15.60
	Heating	kW	10.88	10.88	13.78
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	4.6-22.4
	Power Input	kW	4.65	4.65	6.17
	Pdesign	kW	14.00	14.00	20.0
	SEER/Energy Efficiency Class (or ηsc %)		5.90/233.0	5.90/233.0	5.68/224.2
	Seasonal Energy Consumption	kWh/a	831	831	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0	3.0 - 18.0	4.6-25.0
	Power Input	kW	4.61	4.61	5.71
	Pdesign	kW	12.00	12.00	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.10/161.0	4.10/161.0	3.80/149.0
	Seasonal Energy Consumption	kWh/a	2732	2732	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690
	Weight	kg	23	23	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	5	5	6
	Max. Length Main Distributor To Furthest Indoor	m	15	15	20
	Max. Distance From Second Distributor To Indoors	m	10	10	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6900 - 1917	6900 - 1917	9150 - 2542
Sound	Pressure High Cooling/Heating	dB(A)	53/55	53/55	58/60
	Power High Cooling/Heating	dB(A)	70/72	70/72	76/76
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	95	94	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.4	R32 - 2.4	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	80
	Additional Charge Second Dist. Liquid Side	g/m	20	20	35
	Additional Charge Sub Liquid Side	g/m	0	0	40
Run Current	Maximum	A	22.48	7.49	9.97
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£2,944	£2,944	£3,212
OUTDOOR RETAIL PRICE			£2,431	£2,702	£4,698
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£5,454	£5,725	£7,989

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Slim Ducted Indoor Unit

CODE			121	121	140	140	200
Performance							
Indoor Unit 1		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 3		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 4		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	14.0	20.0
	Heating Capacity	kW	12.8	12.8	16.0	16.0	22.4
	EER/COP	W/W	2.74/3.61	2.74/3.61	2.81/3.41	2.81/3.41	3.00/3.66
UK	Cooling Total/Sensible	kW	10.35/8.52	10.35/8.52	14.40/10.80	14.40/10.80	19.20/14.40
	Heating	kW	7.68	7.68	10.88	10.88	13.78
Cooling EN14825	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0	4.6-22.4
	Power Input	kW	4.67	4.42	4.98	4.98	6.67
	Pdesign	kW	12.00	12.00	14.00	14.00	20.0
SEER/Energy Efficiency Class (or ηsc %)			-	-	5.10/201.0	5.10/201.0	5.44/214.6
Seasonal Energy Consumption		kWh/a	-	-	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0	4.6-25.0
	Power Input	kW	3.60	3.60	4.69	4.69	6.31
	Pdesign	kW	8.00	8.00	12.00	12.00	20.0
SCOP/Energy Efficiency Class (or ηsc(A) %)			-	-	4.00/157.0	4.00/157.0	3.86/151.4
Seasonal Energy Consumption		kWh/a	-	-	-	-	-
Indoor Data		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	660 - 560 - 480	690 - 600 - 522	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	30 (5 - 45)	29 (4-44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	5	5	5	5	6
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15	15	20
	Max. Distance From Second Distributor To Indoors	m	10	10	10	10	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP20
Power Cable	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850
	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6900 - 1917	6900 - 1917	9150 - 2542
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	53/55	53/55	58/60
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/72	70/72	76/76
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	68	69	95	94	142
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	1-1/8 - 1/2
	Min.-Max. Length	m	5-50	5-50	5-50	5-50	5-100
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.1	R32 - 2.1	R32 - 2.4	R32 - 2.4	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	35	35	35	35	80
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20	20	35
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20
Run Current	Maximum	A	21.4	7.15	24.08	8.03	10.78
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£2,920	£2,920	£2,984	£2,984	£3,044
OUTDOOR RETAIL PRICE			£1,804	£2,182	£2,431	£2,702	£4,698
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£4,803	£5,181	£5,494	£5,765	£7,821

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Ducted Indoor Unit

CODE			200	230
Performance				
Indoor Unit 1		RAV-	RM561BTP-E	RM801BTP-E
Indoor Unit 2		RAV-	RM561BTP-E	RM801BTP-E
Indoor Unit 3		RAV-	RM561BTP-E	RM801BTP-E
Indoor Unit 4		RAV-	RM561BTP-E	RM801BTP-E
Outdoor Unit		RAV-	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	20.0	23.5
	Heating Capacity	kW	22.4	27.0
	EER/COP	W/W	3.24/4.02	2.65/3.62
UK	Cooling Total/Sensible	kW	19.20/16.00	19.20/15.60
	Heating	kW	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	4.6-22.4	4.6-27.0
	Power Input	kW	6.17	8.87
	Pdesign	kW	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		5.18/204.2	5.03/198.2
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	4.6-25.0	4.6-31.5
	Power Input	kW	5.57	7.46
	Pdesign	kW	22.0	25.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.73/146.2	3.64/142.6
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	333 - 258 - 200
	High - Medium - Low	m³/h	798 - 630 - 480	1200 - 930 - 720
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	34 - 30 - 26
	Power High - Medium - Low	dB(A)	48 - 44 - 40	49 - 45 - 41
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 1000 x 750
	Weight	kg	23	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	6	6
	Max. Length Main Distributor To Furthest Indoor	m	20	20
	Max. Distance From Second Distributor To Indoors	m	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data				
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	58/60	61/63
	Power High Cooling/Heating	dB(A)	76/76	78/80
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-100	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	80	80
	Additional Charge Second Dist. Liquid Side	g/m	35	35
	Additional Charge Sub Liquid Side	g/m	20	40
Run Current	Maximum	A	9.97	14.49
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£2,872	£3,704
OUTDOOR RETAIL PRICE			£4,698	£4,706
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79
SYSTEM RETAIL PRICE			£7,649	£8,489

For Features and Accessories, please refer to the individual single-split system units.



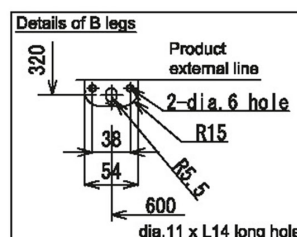
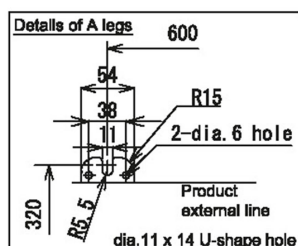
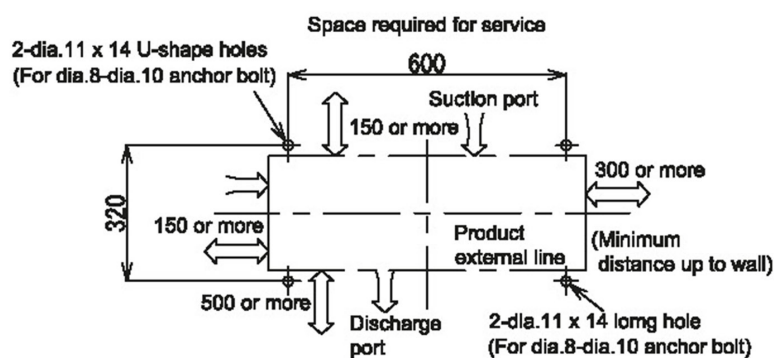
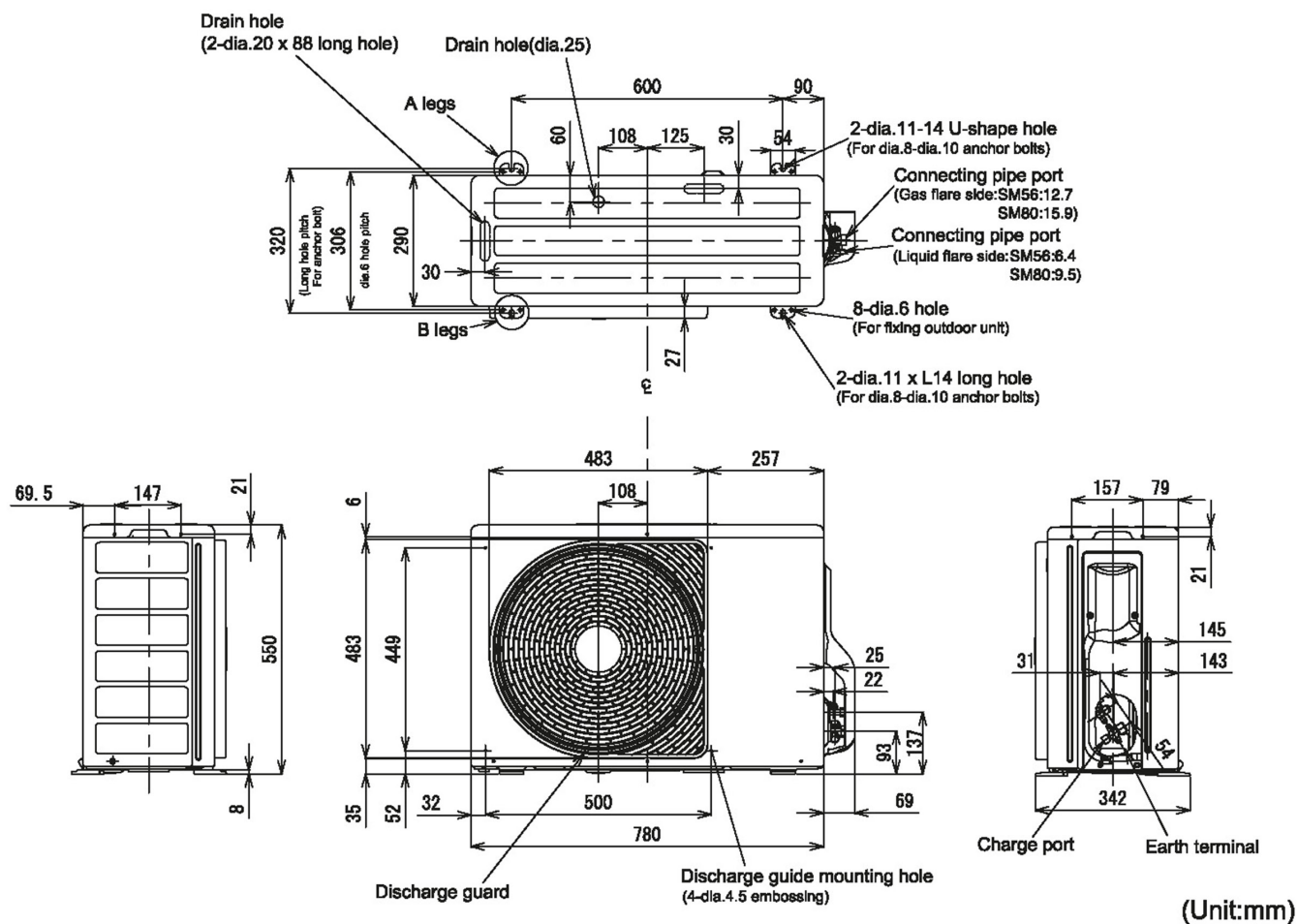
Quad-Split Floor-Mounted Cabinet Indoor Unit

CODE			200	230
Performance				
Indoor Unit 1		MMF-	RM561FT-ES	RM801FT-ES
Indoor Unit 2		MMF-	RM561FT-ES	RM801FT-ES
Indoor Unit 3		MMF-	RM561FT-ES	RM801FT-ES
Indoor Unit 4		MMF-	RM561FT-ES	RM801FT-ES
Outdoor Unit		RAV-	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	20.0	23.5
	Heating Capacity	kW	22.4	27.0
	EER/COP	W/W	3.24/3.98	2.65/3.29
UK	Cooling Total/Sensible	kW	19.20/13.60	25.60/17.60
	Heating	kW	16.73	16.73
Cooling EN14825	Range Min. - Max.	kW	4.6- 22.4	4.6- 27.0
	Power Input	kW	6.17 (1.01-8.83)	8.87 (1.01-11.69)
	Pdesign	kW	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		5.08/200.2	4.87/191.8
	Seasonal Energy Consumption	kWh/a	-	-
Heating EN14825	Range Min. - Max.	kW	4.6- 25.0	4.6- 31.5
	Power Input	kW	5.63 (0.93-9.93)	8.21 (0.93-13.65)
	Pdesign	kW	22.4	25.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.60/141.0	3.57/139.8
	Seasonal Energy Consumption	kWh/a	-	-
Indoor Data				
Air Flow	High - Medium - Low	l/s	228 - 194 - 167	258 - 214 - 178
	High - Medium - Low	m³/h	820 - 700 - 600	930 - 770 - 640
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 38	50 - 45 - 41
	Power High - Medium - Low	dB(A)	60 - 56 - 52	64 - 60 - 54
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	44	45
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Sub Branch Line To Second Dist. (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Max. Subtractive Separation Between Indoors	m	6	6
	Max. Length Main Distributor To Furthest Indoor	m	20	20
	Max. Distance From Second Distributor To Indoors	m	15	15
Power Cable	Indoor to Indoor	mm	VP26/20	VP26/20
Remote Controller (fitted)			2 core + earth	2 core + earth
			RBC-AMS55E-ES	RBC-AMS55E-ES
Outdoor Data				
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	58/60	61/63
	Power High Cooling/Heating	dB(A)	76/76	78/80
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-100	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 5.0	R32 - 5.0
	Additional Charge Main Liquid Side	g/m	80	80
	Additional Charge Second Dist. Liquid Side	g/m	35	35
	Additional Charge Sub Liquid Side	g/m	20	40
Run Current	Maximum	A	10.15	14.49
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20
INDOOR RETAIL PRICE			£7,472	£7,992
OUTDOOR RETAIL PRICE			£4,698	£4,706
SYSTEM RETAIL PRICE			£12,170	£12,698

For Features and Accessories, please refer to the individual single-split system units.

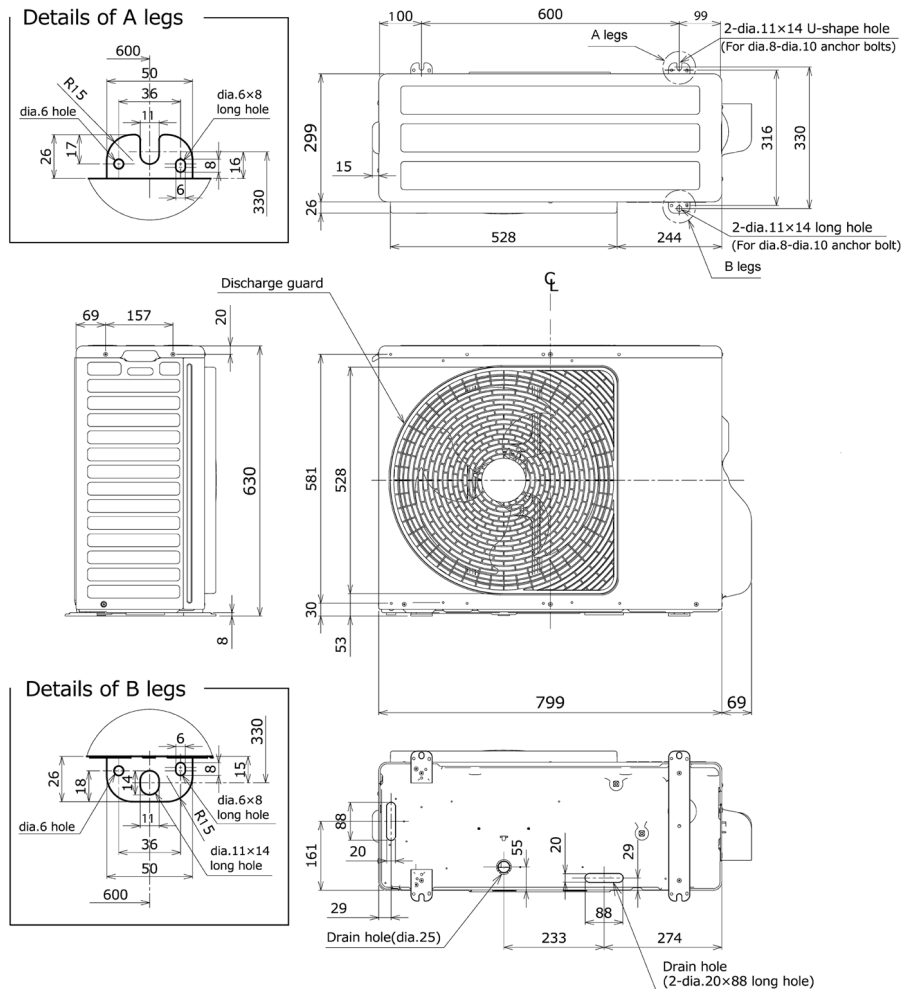


Dimensions - RAV-GM301ATP-E, RAV-GM401ATP-E - R32
RAV-GM561ATP-E, RAV-GM801ATP-E - R32

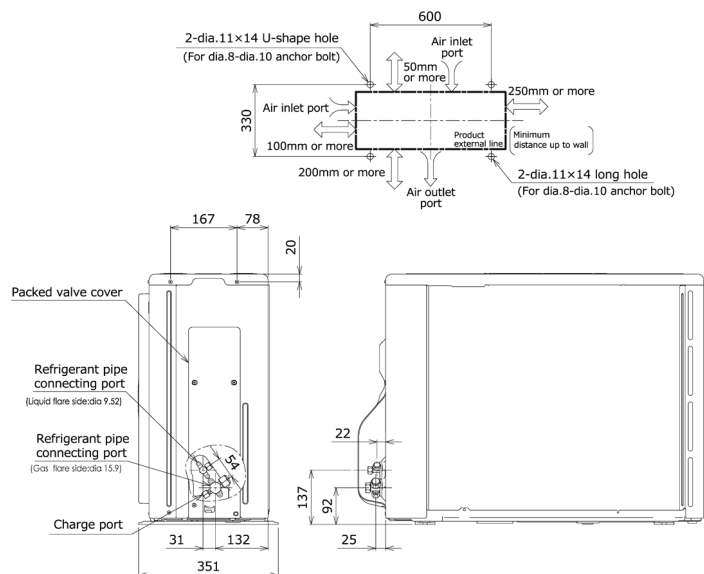




Dimensions - RAV-GM901ATP-E - R32

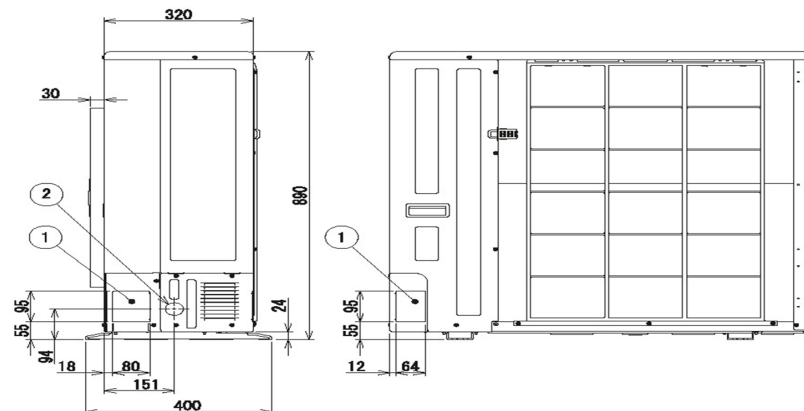
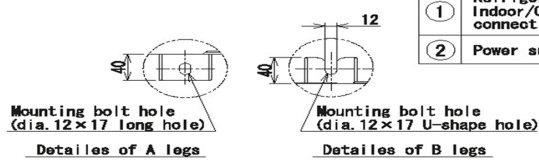
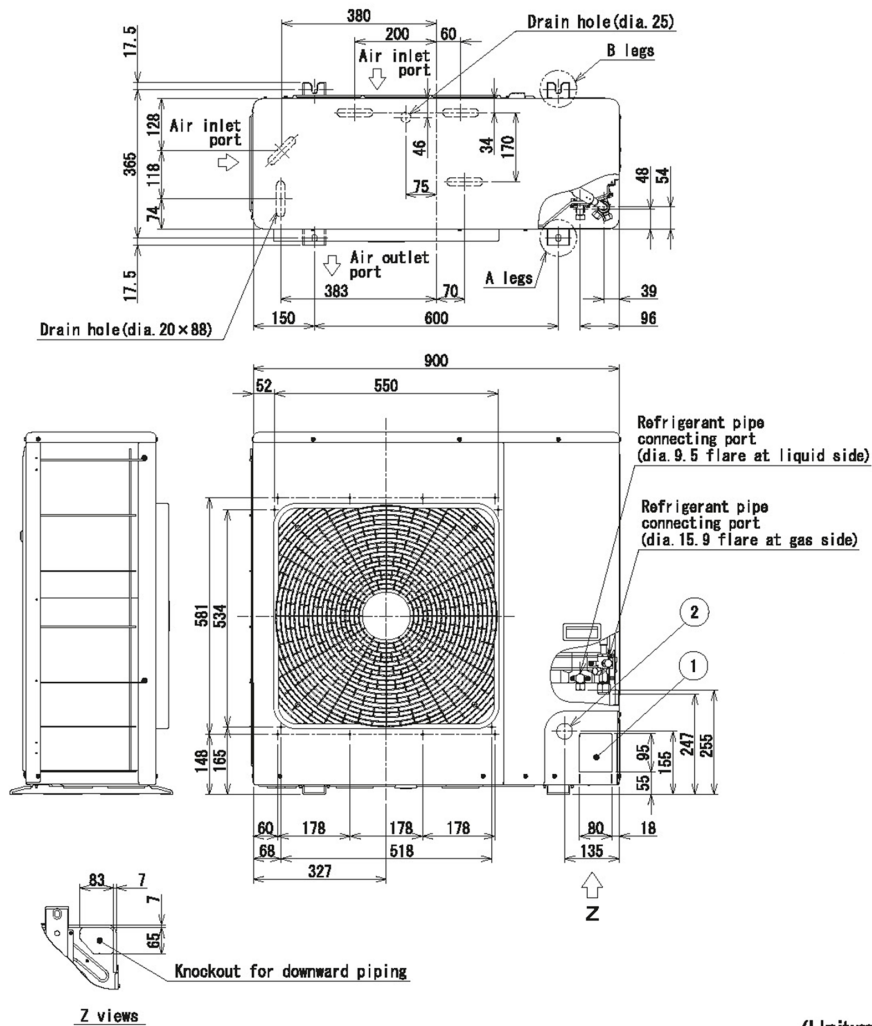


Space required for service



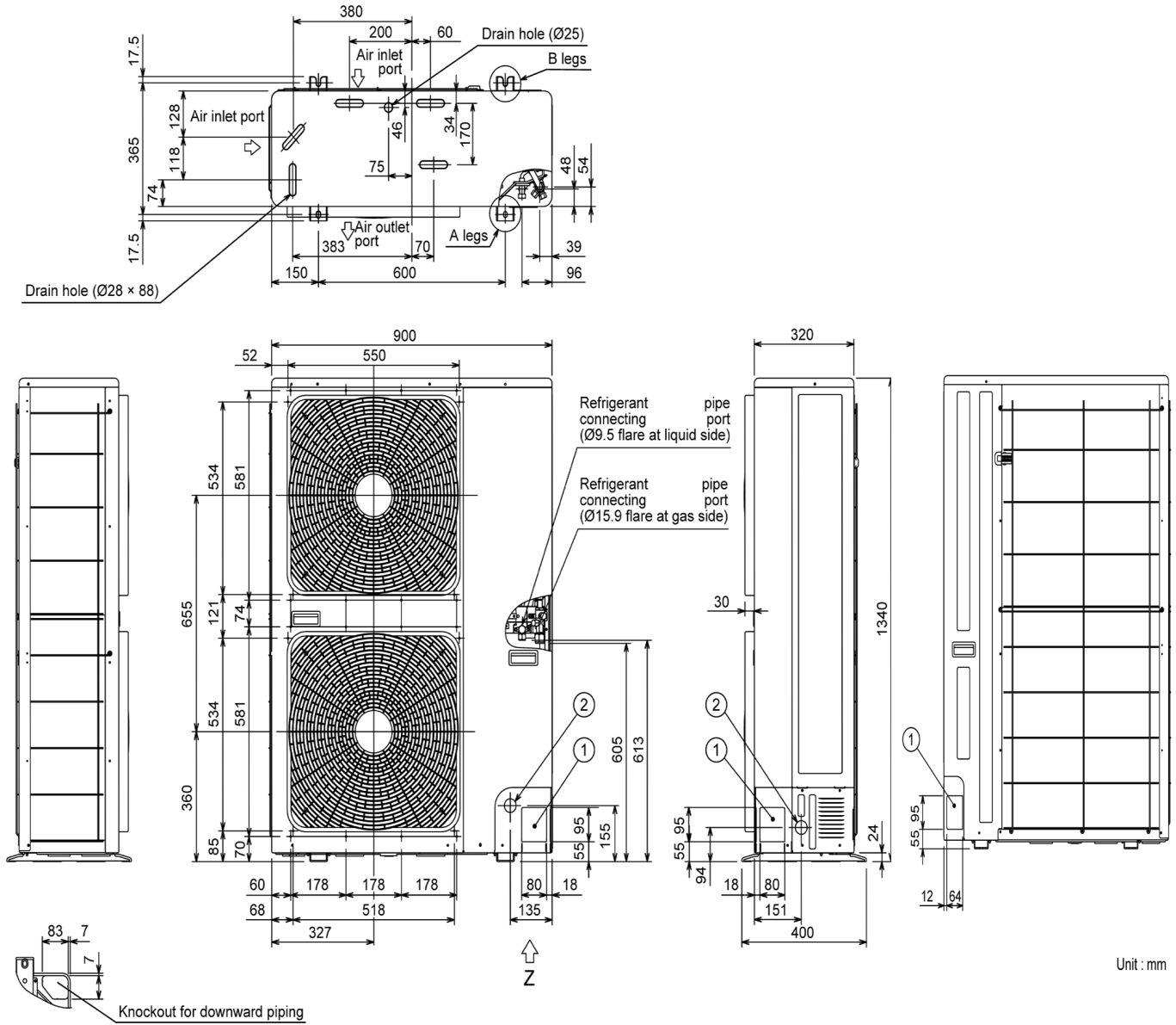


Dimensions - RAV-GM1101ATP-E, RAV-GM1401ATP-E - R32





Dimensions - RAV-GM1601AT8P-E - R32

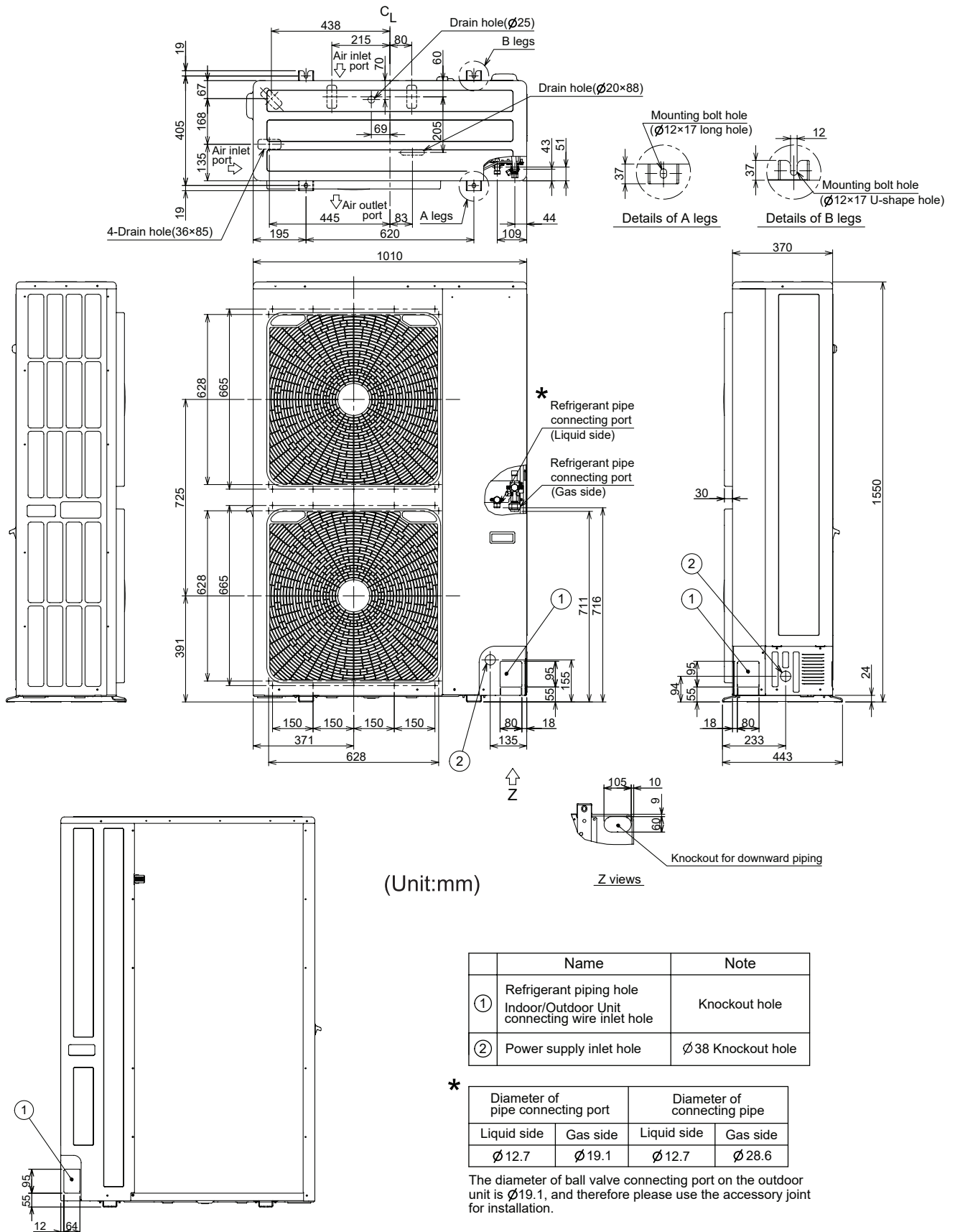


	Name	Note
①	Refrigerant piping hole Indoor/Outdoor unit connecting wire inlet hole	—
②	Power supply inlet hole	Ø38 Knockout hole

Details of A legs Details of B legs



Dimensions - RAV-GM2241AT8-E1, RAV-GM2801AT8-E1 - R32





High-Wall Indoor Unit

CODE		50	71	100	100
Performance					
Indoor Unit		RAV-	RM561KRTP-E	RM801KRTP-E	GM1101KRTP-E
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E
Nominal	Cooling Capacity	kW	5.0	7.1	10.0
	Heating Capacity	kW	5.6	8.0	11.2
	EER/COP	W/W	3.59/4.03	3.45/3.56	3.61/3.58
UK	Cooling Total/Sensible	kW	4.80/4.00	7.40/6.20	9.50/6.70
	Heating	kW	3.55	5.07	8.00
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0
	Power Input	kW	1.43	2.06	2.77
	Pdesign	kW	5.00	7.10	10.0
	SEER/Energy Efficiency Class		7.59/A++	7.34/A++	7.20/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	230	338	486
	Range Min. - Max.	kW	0.9 - 7.3	1.3 - 11.3	2.6 - 13.0
	Power Input	kW	1.39	2.25	3.13
	Pdesign	kW	3.80	5.10	9.20
	SCOP/Energy Efficiency Class		4.17/A+	4.13/A+	4.41/A+
	Seasonal Energy Consumption	kWh/a	1274	1725	2920
Indoor Data					
Air Flow	High - Medium - Low	l/s	267 - 230 - 188	288 - 253 - 272	447 - 375 - 328
	High - Medium - Low	m³/h	960 - 828 - 678	1038 - 912 - 978	1610 - 1350 - 1180
Sound	Pressure High - Medium - Low	dB(A)	42 - 39 - 36	45 - 41 - 35	49 - 48 - 41
	Power High - Medium - Low	dB(A)	57 - 54 - 51	60 - 56 - 51	64 - 60 - 56
Unit	Height x Width x Depth	mm	320 x 1050 x 250	320 x 1050 x 250	348 x 1200 x 280
	Weight	kg	14	14	19
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1933
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	45	74	104
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-75
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	1.35/20	1.9/30	3.1/30
	Additional Charge Liquid Side	g/m	20	35	35
Run Current	Maximum	A	6.13	10.88	11.8
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20
INDOOR RETAIL PRICE			£507	£547	£657
OUTDOOR RETAIL PRICE			£1,413	£2,243	£2,964
SYSTEM RETAIL PRICE (inc. Infra-red controller)			£1,920	£2,790	£3,621

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Wall installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Remote control included



Smart Cassette Indoor Unit

CODE			50	71	100	125	
Performance							
Indoor Unit		RAV-	GM561UT-E	GM801UT-E	GM1101UT-E	GM1401UT-E	
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1401AT-E1	
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	12.5	
	Heating Capacity	kW	5.6	8.0	11.2	14.0	
	EER/COP	W/W	3.29/4.34	5.18/5.52	5.26/5.14	4.30/4.61	
UK	Cooling Total/Sensible	kW	4.8/4.0	7.4/6.2	9.5/8.0	11.9/9.4	
	Heating	kW	3.55	5.25	8.00	9.76	
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	3.1 - 14.0	
	Power Input	kW	1.52	1.37	1.90	2.91	
	Pdesign	kW	5.00	7.10	10.00	12.50	
	SEER/Energy Efficiency Class (or ηsc %)			8.07 /A++	9.40/A+++	8.80/A+++	8.30/329
	Seasonal Energy Consumption	kWh/a	217	264	398	903	
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.4	1.3 - 11.3	2.6 - 13.0	2.6 - 16.5	
	Power Input	kW	1.61	1.45	2.18	3.04	
	Pdesign	kW	3.80	5.10	9.20	9.60	
	SCOP/Energy Efficiency Class (or ηsc(A) %)			5.01/A++	5.51/A+++	5.00/A++	4.97/195.8
	Seasonal Energy Consumption	kWh/a	1061	1294	2573	2702	
Indoor Data		RAV-	GM561UT-E	GM801UT-E	GM1101UT-E	GM1401UT-E	
Air Flow	High - Medium - Low	l/s	292 - 250 - 208	533 - 36 - 225	625 - 458 - 292	625 - 475 - 325	
	High - Medium - Low	m³/h	1050 - 900 - 750	1920 - 129 - 810	2250 - 1650 - 1050	2250 - 1710 - 1170	
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 26	42 - 35 - 27	48 - 40 - 31	48 - 41 - 33	
	Power High - Medium - Low	dB(A)	48 - 45 - 43	56 - 49 - 43	61 - 54 - 46	61 - 55 - 48	
Unit	Height x Width x Depth	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	
	Weight	kg	20	25	25	25	
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	
	Weight RBC-U41PG(W)-E	kg	5	5	5	5	
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	
Remote Controller			RBC-AMSU51-ES	RBC-AMSU51-ES	RBC-AMSU51-ES	RBC-AMSU51-ES	
Outdoor Data		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1401AT-E1	
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1934	6960 - 1934	
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	50/51	
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	67/68	
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370	
	Weight	kg	45	74	104	104	
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
	Min.-Max. Length	m	3-50	3-50	3-75	3-75	
	Maximum Height Difference	m	±30	±30	±30	±30	
	Drain Port Connection	mm	16	16	16	16	
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R32 - 3.1/30	
	Additional Charge Liquid Side	g/m	20	35	35	35	
Run Current	Maximum	A	7.66	7.01	10.43	14.55	
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	220-240/1/50-25	
INDOOR RETAIL PRICE			£1,196	£1,424	£1,456	£1,489	
OUTDOOR RETAIL PRICE			£1,413	£2,243	£2,793	£3,069	
REMOTE CONTROLLER RBC-AMSU51-ES			£140	£140	£140	£140	
SYSTEM RETAIL PRICE			£2,749	£3,807	£4,389	£4,698	

Accessories

TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	£94
RBC-AMTU31-E	Remote Controller	Wireless infra-red controller and receiver	£79
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
RBC-AX41U(W)-E	Remote Controller	Wireless remote controller	£202



False ceiling installation



Auto-diagnosis



Built-in drain pump



Wired controller



Self-cleaning



Single-split



Standard 600 x 600 ceiling size



Automatic restart



Louvre control



Low ambient cooling to -15°C DB



Compact Cassette Indoor Unit

CODE			50
Performance			
Indoor Unit		RAV-	RM561MUT-E
Outdoor Unit		RAV-	GP561AT(P)(W)-E
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	5.3
	EER/COP	W/W	3.21/3.50
UK	Cooling Total/Sensible	kW	4.8/3.6
	Heating	kW	3.55
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6
	Power Input	kW	1.56
	Pdesign	kW	5.00
	SEER/Energy Efficiency Class		6.02/A+
	Seasonal Energy Consumption	kWh/a	291
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3
	Power Input	kW	1.47
	Pdesign	kW	3.80
	SCOP/Energy Efficiency Class		4.30/A+
	Seasonal Energy Consumption	kWh/a	1237
Indoor Data			
Air Flow	High - Medium - Low	l/s	222 - 187 - 152
	High - Medium - Low	m³/h	798 - 672 - 546
Sound	Pressure High - Medium - Low	dB(A)	44 - 39 - 35
	Power High - Medium - Low	dB(A)	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575
	Weight	kg	15
Panel	Height x Width x Depth	mm	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP26/20
Remote Controller			RBC-AMTU31-E
Outdoor Data			
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250 - 625
Sound	Pressure High Cooling/Heating	dB(A)	46/48
	Power High Cooling/Heating	dB(A)	63/65
Unit	Height x Width x Depth	mm	630 x 799 x 299
	Weight	kg	45
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20
	Additional Charge Liquid Side	g/m	20
Run Current	Maximum	A	7.68
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16
INDOOR RETAIL PRICE			£1,106
OUTDOOR RETAIL PRICE			£1,413
REMOTE CONTROLLER RBC-AMTU31-E			£79
SYSTEM RETAIL PRICE			£2,598

Accessories

RBC-AX32UM(W)-E	Remote Controller	Wireless infra-red controller and receiver	£120
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	£94

	False ceiling installation		Auto-diagnosis		Built-in drain pump		Wired controller		Low ambient cooling to -15°C DB
	Self-cleaning		Single-split		Standard 600 x 600 ceiling size		Automatic restart		Louvre control



4-Way Cassette Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit		RAV-	RM561UTP-E	RM801UTP-E	RM1101UTP-E	RM1101UTP-E
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0
	Heating Capacity	kW	5.6	8.0	11.2	11.2
	EER/COP	W/W	4.10/4.31	4.49/4.52	4.69/4.79	4.31/4.65
UK	Cooling Total/Sensible	kW	4.8/3.9	7.4/6.2	9.5/7.9	9.50/7.90
	Heating	kW	3.55	5.25	8.00	7.31
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0
	Power Input	kW	1.22	1.58	2.13	2.32
	Pdesign	kW	5.00	7.10	10.00	10.0
	SEER/Energy Efficiency Class		7.61/A++	8.80/A+++	8.65/A+++	7.10/A++
Heating EN14825	Seasonal Energy Consumption	kWh/a	230	282	405	492
	Range Min. - Max.	kW	0.9 - 8.1	1.3 - 11.3	2.6 - 13.0	2.4 - 15.6
	Power Input	kW	1.30	1.77	2.34	2.41
	Pdesign	kW	3.80	5.10	9.20	9.5
	SCOP/Energy Efficiency Class		4.96/A+	5.22/A+++	4.73/A++	4.36/A+
	Seasonal Energy Consumption	kWh/a	1071	1367	2719	3047

Indoor Data		RAV-	RM561UTP-E	RM801UTP-E	RM1101UTP-E	RM1101UTP-E
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	342 - 267 - 225	558 - 400 - 325	558 - 400 - 325
	High - Medium - Low	m³/h	1050 - 870 - 780	1230 - 960 - 810	2010 - 1440 - 1170	2010 - 1440 - 1170
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	35 - 31 - 28	43 - 38 - 33	43 - 38 - 33
	Power High - Medium - Low	dB(A)	47 - 44 - 43	50 - 46 - 43	56 - 53 - 48	58 - 53 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	20	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4.2	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1934	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R32 - 2.6/30
	Additional Charge Liquid Side	g/m	20	35	35	40
Run Current	Maximum	A	6.33	8.56	11.20	4.52
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£956	£1,027	£1,119	£1,119
OUTDOOR RETAIL PRICE	£1,413	£2,243	£2,793	£2,964
REMOTE CONTROLLER RBC-AMTU31-E	£79	£79	£79	£79
SYSTEM RETAIL PRICE	£2,448	£3,349	£3,991	£4,162

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-AXU31U-E	Remote Controller	Wireless receiver kit for 4-Way Cassette	£202
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



False ceiling installation



Auto-diagnosis



Built-in drain pump



Wired controller



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Individual louvre control



Louvre control



Chargeless



Automatic restart



4-Way Cassette Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		RAV-	RM1401UTP-E	RM1401UTP-E	RM1601UTP-E
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	4.30/4.61	3.65/4.11	3.23/3.74
UK	Cooling Total/Sensible	kW	11.9/8.8	11.9/8.80	13.3/9.70
	Heating	kW	9.76	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.16	3.42	4.34
	Pdesign	kW	12.50	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		8.15/323	7.01/277.4	6.72/265.8
Heating EN14825	Seasonal Energy Consumption	kWh/a	920	1069	1249
	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.21	3.41	4.28
	Pdesign	kW	9.60	9.5	9.5
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.72/185.8	4.36/171.4	4.36/171.4
	Seasonal Energy Consumption	kWh/a	2844	3049	3049
Indoor Data					
Air Flow	High - Medium - Low	l/s	583 - 400 - 342	583 - 400 - 342	592 - 417 - 350
	High - Medium - Low	m³/h	2100 - 1440 - 1230	2100 - 1440 - 1230	2130 - 1500 - 1260
Sound	Pressure High - Medium - Low	dB(A)	44 - 38 - 34	44 - 38 - 34	45 - 40 - 36
	Power High - Medium - Low	dB(A)	59 - 53 - 49	59 - 53 - 49	60 - 55 - 51
Unit	Height x Width x Depth	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	24	24	24
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4.2	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1934	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 3.1/30	R32 - 2.6/30	R32 - 2.6/30
	Additional Charge Liquid Side	g/m	35	40	40
Run Current	Maximum	A	15.36	6.03	7.55
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,145	£1,145	£1,224
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£4,293	£4,319	£4,595

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-AXU31U-E	Remote Controller	Wireless receiver kit for 4-Way Cassette	£202
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



False ceiling installation



Auto-diagnosis



Built-in drain pump



Wired controller



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Individual louvre control



Automatic restart



Louvre control



Chargeless



Ceiling Indoor Unit

CODE		50	71	100	100		
Performance							
Indoor Unit		RAV-	RM561CTP-E	RM801CTP-E	RM1101CTP-E	RM1101CTP-E	
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E	
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0	
	Heating Capacity	kW	5.6	8.0	11.2	11.2	
	EER/COP	W/W	3.65/4.03	4.44/4.44	4.48/4.71	3.91/4.46	
UK	Cooling Total/Sensible	kW	4.8/3.9	7.4/5.5	9.5/7.9	9.50/7.90	
	Heating	kW	3.55	5.25	8.00	7.30	
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0	
	Power Input	kW	1.37	1.60	2.23	2.56	
	Pdesign	kW	5.00	6.90	10.00	10.0	
	SEER/Energy Efficiency Class			6.76/A++	7.95/A++	8.23/A++	6.61/A++
Seasonal Energy Consumption		kWh/a	259	312	425	529	
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.4	1.3 - 11.3	2.6 - 13.0	2.4 - 14.0	
	Power Input	kW	1.39	1.80	2.38	2.51	
	Pdesign	kW	3.80	6.80	7.60	11.6	
	SCOP/Energy Efficiency Class			4.7/A++	5.05/A++	4.72/A++	4.21/A+
	Seasonal Energy Consumption		kWh/a	1130	1412	2726	3854
Indoor Data		RAV-	RM561CTP-E	RM801CTP-E	RM1101CTP-E	RM1101CTP-E	
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	392 - 278 - 208	517 - 375 - 283	517 - 375 - 283	
	High - Medium - Low	m³/h	900 - 720 - 540	1410 - 1000 - 750	1860 - 1350 - 1020	1860 - 1350 - 1020	
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	41 - 36 - 29	44 - 38 - 32	44 - 38 - 32	
	Power High - Medium - Low	dB(A)	52 - 50 - 43	56 - 51 - 44	59 - 53 - 47	59 - 53 - 47	
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690	
	Weight	kg	23	29	37	35	
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	
Outdoor Data		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E	
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15	
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1934	6060 - 1683	
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50	
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67	
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	
	Weight	kg	45	74	104	95	
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
	Min.-Max. Length	m	3-50	3-50	3-75	3-75	
	Maximum Height Difference	m	±30	±30	±30	±30	
	Drain Port Connection	mm	16	16	16	16	
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R32 - 2.6/30	
	Additional Charge Liquid Side	g/m	20	35	35	40	
Run Current	Maximum	A	6.71	8.70	11.39	4.70	
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10	
INDOOR RETAIL PRICE			£803	£951	£1,037	£1,037	
OUTDOOR RETAIL PRICE			£1,413	£2,243	£2,793	£2,964	
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	
SYSTEM RETAIL PRICE			£2,295	£3,273	£3,909	£4,080	

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Ceiling installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Wired controller



Ceiling Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		RAV-	RM1401CTP-E	RM1401CTP-E	RM1601CTP-E
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	4.30/4.61	3.4/4.02	3.04/3.72
UK	Cooling Total/Sensible	kW	11.9/8.9	11.90/8.90	13.30/9.30
	Heating	kW	9.76	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.58	3.68	4.60
	Pdesign	kW	12.00	10.0	10.0
	SEER/Energy Efficiency Class (or ηsc %)		7.58/300.2	6.30/249.0	6.00/237.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	989	1190	1400
	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.59	3.48	4.30
	Pdesign	kW	8.00	7.6	7.6
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.71/185.4	4.20/165.0	4.19/164.6
	Seasonal Energy Consumption	kWh/a	2852	3931	4003
Indoor Data					
Air Flow	High - Medium - Low	l/s	567 - 425 - 333	567 - 425 - 333	567 - 458 - 350
	High - Medium - Low	m³/h	2040 - 1530 - 1200	2040 - 1530 - 1200	2040 - 1650 - 1260
Sound	Pressure High - Medium - Low	dB(A)	46 - 41 - 35	46 - 41 - 35	46 - 42 - 36
	Power High - Medium - Low	dB(A)	61 - 56 - 50	61 - 56 - 50	61 - 57 - 51
Unit	Height x Width x Depth	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	37	35	37
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1934	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 3.1/30	R32 - 2.6/30	R32 - 2.6/30
	Additional Charge Liquid Side	g/m	35	40	40
Run Current	Maximum	A	17.18	6.50	7.60
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,307	£1,307	£1,331
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£4,455	£4,481	£4,702

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Ceiling installation



Auto-diagnosis



Chargeless



Self-cleaning



Single-split



Low ambient cooling to -15°C DB



Automatic restart



Drain connection both sides



Wired controller



Ducted Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit		RAV-	RM561BTP-E	RM801BTP-E	RM1101BTP-E	RM1101BTP-E
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0
	Heating Capacity	kW	5.6	8.0	11.2	11.2
	EER/COP	W/W	3.29/3.48	4.36/4.32	4.17/4.10	3.87/4.06
UK	Cooling Total/Sensible	kW	4.8/4.0	7.4/5.3	9.5/7.9	9.50/7.90
	Heating	kW	3.55	5.15	8.00	7.31
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0
	Power Input	kW	1.52	1.63	2.40	2.58
	Pdesign	kW	5.00	6.70	10.00	10.0
	SEER/Energy Efficiency Class		5.60/A+	7.50/A++	6.60/A++	5.70/A+
	Seasonal Energy Consumption	kWh/a	312	466	696	613
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.4	1.3 - 11.3	2.6 - 13.0	2.4 - 15.6
	Power Input	kW	1.61	1.85	2.73	2.76
	Pdesign	kW	3.80	6.70	7.60	10.8
	SCOP/Energy Efficiency Class		4.24/A+	4.81/A++	4.24/A+	4.14/A+
	Seasonal Energy Consumption	kWh/a	1254	1484	3032	3644

Indoor Data		RAV-	RM561BTP-E	RM801BTP-E	RM1101BTP-E	RM1101BTP-E
Air Flow	High - Medium - Low	l/s	222 - 183 - 150	333 - 258 - 200	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	800 - 660 - 540	1200 - 930 - 720	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	34 - 30 - 26	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	48 - 44 - 40	49 - 45 - 41	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	23	30	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1934	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R32 - 2.6/30
	Additional Charge Liquid Side	g/m	20	35	35	40
Run Current	Maximum	A	7.66	8.95	13.06	5.10
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£718	£926	£1,059	£1,059
OUTDOOR RETAIL PRICE	£1,413	£2,243	£2,793	£2,964
REMOTE CONTROLLER RBC-AMTU31-E	£79	£79	£79	£79
SYSTEM RETAIL PRICE	£2,210	£3,248	£3,931	£4,102

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£263
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
RBC-VCK1	Vertical Mounting	Ducted vertical conversion kit	£521
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	£128
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	£150
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E	£191



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Built-in drain pump



Automatic restart



Self-cleaning



Single-split



Chargeless



Wired controller



Ducted Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		RAV-	RM1401BTP-E	RM1401BTP-E	RM1601BTP-E
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
UK	EER/COP	W/W	4.30/4.61	3.28/3.83	3.12/3.5
	Cooling Total/Sensible	kW	11.9/9.0	11.90/9.00	13.30/9.70
Cooling EN14825	Heating	kW	9.76	9.14	10.45
	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
Power Input		kW	3.57	3.81	4.49
	Pdesign	kW	12.00	12.5	14.0
SEER/Energy Efficiency Class (or ηsc %)			6.06/239.4	5.48/216.2	5.36/211.4
	Seasonal Energy Consumption	kWh/a	629	1366	1566
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.63	3.66	4.57
Pdesign		kW	8.00	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.24/166.6	3.95/155.0	3.93/154.2
Seasonal Energy Consumption		kWh/a	3168	4176	4271
Indoor Data		RAV-	RM1401BTP-E	RM1401BTP-E	RM1601BTP-E
Air Flow	High - Medium - Low	l/s	583 - 458 - 350	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	2100 - 1650 - 1260	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	50 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
Remote Controller	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1934	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-75	3-75
Maximum Height Difference		m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 3.1/30	R32 - 2.6/30	R32 - 2.6/30
	Additional Charge Liquid Side	g/m	35	40	40
Run Current	Maximum	A	17.37	6.70	7.80
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,183	£1,183	£1,290
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£4,331	£4,357	£4,661

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£263
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
RBC-VCK1	Vertical Mounting	Ducted vertical conversion kit	£521
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	£128
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	£150
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E	£191



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Built-in drain pump



Automatic restart



Single-split



Chargeless



Wired controller



Self-cleaning



Slim Ducted Indoor Unit

CODE			53
Performance			
Indoor Unit		RAV-	RM561SDT-E
Outdoor Unit		RAV-	GP561AT(P)(W)-E
Nominal	Cooling Capacity	kW	5.0
	Heating Capacity	kW	5.6
	EER/COP	W/W	3.21/3.54
UK	Cooling Total/Sensible	kW	4.8/3.6
	Heating	kW	3.55
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6
	Power Input	kW	1.56
	Pdesign	kW	5.00
	SEER/Energy Efficiency Class		5.77/A+
	Seasonal Energy Consumption	kWh/a	303
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.0
	Power Input	kW	1.58
	Pdesign	kW	3.80
	SCOP/Energy Efficiency Class		4.20/A+
	Seasonal Energy Consumption	kWh/a	1266
Indoor Data			
Air Flow	High - Medium - Low	l/s	217 - 188 - 162
	High - Medium - Low	m³/h	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 55 - 51
Unit	Height x Width x Depth	mm	210 x 845 x 645
	Weight	kg	22
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850
Remote Controller			RBC-AMTU31-E
Outdoor Data			
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	2250 - 625
Sound	Pressure High Cooling/Heating	dB(A)	46/48
	Power High Cooling/Heating	dB(A)	63/65
Unit	Height x Width x Depth	mm	630 x 799 x 299
	Weight	kg	45
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 1.35/20
	Additional Charge Liquid Side	g/m	20
Run Current	Maximum	A	7.81
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16
INDOOR RETAIL PRICE			£761
OUTDOOR RETAIL PRICE			£1,413
REMOTE CONTROLLER RBC-AMTU31-E			£79
SYSTEM RETAIL PRICE			£2,253

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	£321
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£72
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	£263
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Automatic restart



Built-in drain pump



Self-cleaning



Single-split



Chargeless



Wired controller



Floor-Mounted Cabinet Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit		RAV-	RM561FT-ES	RM801FT-ES	RM1101FT-ES	RM1101FT-ES
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0
	Heating Capacity	kW	5.6	8.0	12.5	12.5
	EER/COP	W/W	3.51/3.39	3.48/3.38	4.18/4.06	4.07/4.04
UK	Cooling Total/Sensible	kW	4.80/3.40	6.70/4.60	9.50/7.10	9.50/7.10
	Heating	kW	3.55	5.25	8.00	7.31
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	2.6 - 12.0	2.6 - 12.0
	Power Input	kW	1.42	2.04	2.39	2.46
	Pdesign	kW	5.0	7.1	10	10.0
	SEER/Energy Efficiency Class		5.75/A+	6.24/A++	6.67/A++	5.86/A+
Heating EN14825	Seasonal Energy Consumption	kWh/a	304	398	597	597
	Range Min. - Max.	kW	0.9 - 7.4	1.3 - 11.3	2.4 - 14.0	2.4 - 14.0
	Power Input	kW	1.65	2.37	2.76	3.09
	Pdesign	kW	3.8	5.1	10.8	10.8
	SCOP/Energy Efficiency Class		4.20/A+	4.41/A+	4.37/A+	4.00/A+
	Seasonal Energy Consumption	kWh/a	1266	1618	3774	3774

Indoor Data		RAV-	RM561FT-ES	RM801FT-ES	RM1101FT-ES	RM1101FT-ES
Air Flow	High - Medium - Low	l/s	228 - 167	258 - 178	461 - 394 - 331	461 - 394 - 331
	High - Medium - Low	m3/h	820 - 600	930 - 640	1660 - 1420 - 1190	1660 - 1420 - 1190
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 38	50 - 45 - 41	51 - 46 - 41	51 - 46 - 41
	Power High - Medium - Low	dB(A)	60 - 56 - 52	64 - 60 - 54	65 - 61 - 55	65 - 61 - 55
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390
	Weight	kg	44	45	59	59
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Remote Controller (fitted)			RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES

Outdoor Data		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15
Air Flow	High	m3/h - l/s	2250 - 625	3180 - 883	6960 - 1933	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	m	R32 - 1.35/20	R32 - 1.9/30	R32 - 3.1/30	R32 -2.6/40
	Additional Charge Liquid Side	g/m	20	35	35	40
Run Current	Maximum	Amps	7.66	8.95	13.21	5.80
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10

INDOOR RETAIL PRICE	£1,868	£1,998	£2,148	£2,148
OUTDOOR RETAIL PRICE	£1,413	£2,243	£2,793	£2,964
SYSTEM RETAIL PRICE	£3,281	£4,241	£4,941	£5,112

Accessories

RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12



Floor-Mounted Cabinet Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		RAV-	RM1401FT-ES	RM1401FT-ES	RM1601FT-ES
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	2.55/3.23	3.46/3.67	3.19/3.31
UK	Cooling Total/Sensible	kW	11.90/8.30	11.90/8.30	13.30/8.90
	Heating	kW	9.76	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.61	3.61	4.39
	Pdesign	kW	12.5	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		5.65/223.0	5.65/223.0	5.55/219.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	1229	1326	1513
	Range Min. - Max.	kW	2.4 - 18.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.81	3.81	4.83
	Pdesign	kW	14.0	14.0	16.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.00/157.0	4.00/157.0	3.96/155.4
	Seasonal Energy Consumption	kWh/a	3086	4130	4238
Indoor Data					
Air Flow	High - Medium - Low	l/s	489 - 411 - 375	489 - 411 - 375	489 - 411 - 375
	High - Medium - Low	m ³ /h	1760 - 1480 - 1350	1760 - 1480 - 1350	1760 - 1480 - 1350
Sound	Pressure High - Medium - Low	dB(A)	53 - 48 - 45	53 - 48 - 45	53 - 48 - 45
	Power High - Medium - Low	dB(A)	67 - 62 - 59	67 - 62 - 59	67 - 62 - 59
Unit	Height x Width x Depth	mm	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
	Weight	kg	59	59	59
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Remote Controller (fitted)			RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES
Outdoor Data					
Operating Range		°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow		m ³ /h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-75	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	m	R32 - 3.1/30	R32 -2.6/40	R32 -2.6/40
	Additional Charge Liquid Side	g/m	35	40	40
Run Current	Maximum	Amps	18.8	6.60	8.10
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£2,248	£2,248	£2,353
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
SYSTEM RETAIL PRICE			£5,317	£5,343	£5,645

Accessories

RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12



Twin-Split High-Wall Indoor Unit

CODE		50	69	100	100
Performance					
Indoor Unit 1		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM401KRTP-E	RM561KRTP-E
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E
Nominal	Cooling Capacity	kW	5.0	6.9	10.0
	Heating Capacity	kW	5.3	7.7	11.2
	EER/COP	W/W	3.01/3.42	2.75/2.95	4.10/4.10
UK	Cooling Total/Sensible	kW	-	-	9.63/7.32
	Heating	kW	-	-	7.10
					7.30
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	3.1 - 12.0
	Power Input	kW	1.66	2.44	2.61
	Pdesign	kW	5.00	6.70	10.00
	SEER/Energy Efficiency Class		-	-	8.15/A++
	Seasonal Energy Consumption	kWh/a	-	-	429
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	2.6 - 13.0
	Power Input	kW	1.55	2.61	2.73
	Pdesign	kW	4.40	6.30	9.20
	SCOP/Energy Efficiency Class		-	-	4.05/A+
	Seasonal Energy Consumption	kWh/a	-	-	3179
					3647
Indoor Data					
Air Flow	High - Medium - Low	l/s	158 - 128 - 83	192 - 145 - 83	267 - 230 - 188
	High - Medium - Low	m ³ /h	570 - 462 - 300	690 - 522 - 300	960 - 828 - 678
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	45 - 40 - 30	42 - 39 - 36
	Power High - Medium - Low	dB(A)	56 - 52 - 44	60 - 55 - 45	57 - 54 - 51
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 228
	Weight	kg	10	10	12
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-TA09NE	WH-TA09NE	WH-TA09NE
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15
	High	m ³ /h - l/s	2250 - 625	3180 - 883	6960 - 1933
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	45	74	104
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 1.35	R32 - 1.9	R32 - 3.1
	Additional Charge Main Liquid Side	g/m	20	35	40
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	7.78	12.23	15.14
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20
INDOOR RETAIL PRICE			£758	£824	£1,014
OUTDOOR RETAIL PRICE			£1,413	£2,243	£2,793
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£2,250	£3,146	£4,057

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split High-Wall Indoor Unit (continued)

CODE			121	125	140
Performance					
Indoor Unit 1		RAV-	RM801KRTP-E	RM801KRTP-E	RM801KRTP-E
Indoor Unit 2		RAV-	RM801KRTP-E	RM801KRTP-E	RM801KRTP-E
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.1	12.3	14.0
	Heating Capacity	kW	12.8	14.0	16.0
	EER/COP	W/W	3.45/3.66	3.3/3.7	3.01/3.29
UK	Cooling Total/Sensible	kW	12.03/8.84	*	13.40/9.60
	Heating	kW	8.88	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 13.5	2.6 - 16.0
	Power Input	kW	3.55	3.37	4.65
	Pdesign	kW	12.5	12.3	14.0
	SEER/Energy Efficiency Class (or ηsc %)		6.69/264.6	6.10/241.0	5.88/232.2
	Seasonal Energy Consumption	kWh/a	-	-	-
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.66	3.78	4.87
	Pdesign	kW	9.60	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.37/171.8	4.11/161.4	4.08/160.2
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	283 - 208 - 183	289 - 253 - 189	289 - 253 - 189
	High - Medium - Low	m³/h	1020 - 750 - 660	1040 - 910 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	47 - 41 - 36	45 - 41 - 35	45 - 41 - 35
	Power High - Medium - Low	dB(A)	62 - 56 - 51	60 - 56 - 50	60 - 56 - 50
Unit	Height x Width x Depth	mm	320 x 1050 x 228	320 x 1050 x 250	320 x 1050 x 250
	Weight	kg	12	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-TA09NE	WH-TA09NE	WH-TA09NE
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Sub Liquid Side	g/m	35	40	40
Run Current	Maximum	A	22.78	6.97	8.57
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,094	£1,094	£1,094
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£4,242	£4,268	£4,465

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Smart Cassette Indoor Unit

CODE			100	125
Performance				
Indoor Unit 1		RAV-	GM561UT-E	GM801UT-E
Indoor Unit 2		RAV-	GM561UT-E	GM801UT-E
Outdoor Unit		RAV-	GP1101AT-E	GP1401AT-E1
Nominal	Cooling Capacity	kW	10.0	12.5
	Heating Capacity	kW	11.2	14.0
	EER/COP	W/W	5.26/5.14	4.30/4.61
UK	Cooling Total/Sensible	kW	9.6/8.0	11.8/9.2
	Heating	kW	8.00	9.76
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	3.1 - 14.0
	Power Input	kW	1.90	2.91
	Pdesign	kW	10.00	12.50
	SEER/Energy Efficiency Class (or η_{sc} %)		8.64/A+++	8.19/329
	Seasonal Energy Consumption	kWh/a	398	903
Heating EN14825	Range Min. - Max.	kW	2.6 - 13.0	2.6 - 16.5
	Power Input	kW	2.18	3.04
	Pdesign	kW	9.20	9.60
	SCOP/Energy Efficiency Class (or $\eta_{sc}(A)$ %)		5.00/A++	4.97/195.8
	Seasonal Energy Consumption	kWh/a	2573	2702
Indoor Data				
Air Flow	High - Medium - Low	l/s	292 - 250 - 208	533 - 36 - 225
	High - Medium - Low	m³/h	1050 - 900 - 750	1920 - 1290 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 26	42 - 35 - 27
	Power High - Medium - Low	dB(A)	48 - 45 - 43	56 - 49 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	319 x 840 x 840
	Weight	kg	20	25
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U41PG(W)-E	kg	5	5
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMSU51-ES	RBC-AMSU51-ES
Outdoor Data				
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6960 - 1933
Sound	Pressure High Cooling/Heating	dB(A)	49/50	50/51
	Power High Cooling/Heating	dB(A)	66/67	67/68
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	104	104
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 3.1
	Additional Charge Main Liquid Side	g/m	35	35
	Additional Charge Sub Liquid Side	g/m	20	35
Run Current	Maximum	A	10.43	14.55
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	220-240/1/50-25
INDOOR RETAIL PRICE			£2,392	£2,848
OUTDOOR RETAIL PRICE			£2,793	£3,069
REMOTE CONTROLLER RBC-AMSU51-ES			£140	£140
SYSTEM RETAIL PRICE			£5,325	£6,057

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Compact Cassette Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit 1		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E	RM561MUT-E
Indoor Unit 2		RAV-	RM301MUT-E	RM401MUT-E	RM561MUT-E	RM561MUT-E
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0
	Heating Capacity	kW	5.3	8.0	11.2	11.2
	EER/COP	W/W	3.21/3.50	4.10/4.40	4.18/4.19	3.84/3.74
UK	Cooling Total/Sensible	kW	4.8/3.6	7.4/5.2	9.6/7.2	9.60/7.20
	Heating	kW	3.55	5.25	8.00	7.31
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0
	Power Input	kW	1.56	1.73	2.39	2.60
	Pdesign	kW	5.00	6.70	10.00	10.0
	SEER/Energy Efficiency Class		6.02/A+	7.80/A++	7.70/A++	6.16/A++
	Seasonal Energy Consumption	kWh/a	291	404	597	568
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.3 - 11.3	2.6 - 13.0	2.4 - 14.0
	Power Input	kW	1.47	1.82	2.67	2.99 (0.53-4.26)
	Pdesign	kW	3.80	6.80	7.60	10.3
	SCOP/Energy Efficiency Class		4.30/A+	4.86/A++	4.40/A+	3.93/A
	Seasonal Energy Consumption	kWh/a	1237	2349	2616	3667
Indoor Data						
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152	222 - 17 - 152
	High - Medium - Low	m³/h	640 - 520 - 440	660 - 552 - 468	798 - 672 - 546	798 - 562 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	41 - 36 - 32	44 - 39 - 35	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	56 - 51 - 47	59 - 54 - 50	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	10	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1933	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	R32 - Base Charge	kg	R32 - 1.35	R32 - 1.9	R32 - 3.1	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	20	35	35	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	7.68	8.80	12.78	5.44
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10
INDOOR RETAIL PRICE			£2,164	£2,178	£2,212	£2,212
OUTDOOR RETAIL PRICE			£1,413	£2,243	£2,793	£2,964
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£3,656	£4,500	£5,084	£5,255

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split 4-Way Cassette Indoor Unit

CODE			100	100	125	125	140
Performance							
Indoor Unit 1		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E	RM801UTP-E
Indoor Unit 2		RAV-	RM561UTP-E	RM561UTP-E	RM801UTP-E	RM801UTP-E	RM801UTP-E
Outdoor Unit		RAV-	GP1101AT-E	GP1101AT8-E	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	10.0	10.0	12.5	12.5	14.0
	Heating Capacity	kW	11.2	11.2	14.0	14.0	16.0
	EER/COP	W/W	4.69/4.79	4.31/4.65	3.96/3.96	3.65/4.11	3.96/3.74
UK	Cooling Total/Sensible	kW	9.6/7.8	9.60/7.80	11.8/8.8	14.80/12.40	14.80/12.40
	Heating	kW	8.00	7.30	9.76	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	2.13	2.32	3.16	3.42	4.34
	Pdesign	kW	10.00	10.00	12.00	12.50	14.00
	SEER/Energy Efficiency Class (or ηsc %)		8.57/A+++	7.06/A++	8.14/323	7.06/279.4	6.76/267.4
Heating EN14825	Seasonal Energy Consumption	kWh/a	597	395	783	1069	1249
	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 15.6	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.34	2.41	3.21	3.41	3.21
	Pdesign	kW	8.00	9.50	8.00	9.50	9.50
SCOP/Energy Efficiency Class (or ηsc(A) %)			4.73/A++	4.36/A+	4.72/185.8	4.36/171.4	4.36/171.4
Seasonal Energy Consumption		kWh/a	2616	3045	2672	3049	3049
Indoor Data							
Air Flow	High - Medium - Low	l/s	292 - 242 - 217	292 - 242 - 217	342 - 267 - 225	342 - 267 - 225	342 - 267 - 225
	High - Medium - Low	m³/h	1050 - 870 - 780	1050 - 870 - 780	1230 - 960 - 810	1230 - 960 - 810	1230 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28	32 - 29 - 28	35 - 31 - 28	35 - 31 - 28	35 - 31 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43	47 - 44 - 43	50 - 46 - 43	50 - 46 - 43	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGSP(W)-E	kg	4	4.2	4	4.2	4.2
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
Drain Pipe Connection OD/ID		mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	35	40	40
Run Current	Maximum	A	11.20	4.52	15.36	6.03	7.55
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,912	£1,912	£2,054	£2,054	£2,054
OUTDOOR RETAIL PRICE			£2,793	£2,964	£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£4,784	£4,955	£5,202	£5,228	£5,425

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ceiling Indoor Unit

CODE			71	100	100	125	125	140
Performance								
Indoor Unit 1		RAV-	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E	RM801CTP-E	RM801CTP-E
Indoor Unit 2		RAV-	RM401CTP-E	RM561CTP-E	RM561CTP-E	RM801CTP-E	RM801CTP-E	RM801CTP-E
Outdoor Unit		RAV-	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	7.1	10.0	10.0	12.5	12.5	14.0
	Heating Capacity	kW	8.0	11.2	11.2	14.0	14.0	16.0
	EER/COP	W/W	4.44/4.44	4.48/4.71	3.91/4.46	3.49/3.90	3.4/4.02	3.04/3.72
UK	Cooling Total/Sensible	kW	7.4/6.0	9.6/7.8	4.80/7.80	11.8/8.8	14.80/11.00	14.80/11.00
	Heating	kW	5.25	8.00	7.31	9.76	9.14	10.45
	Range Min. - Max.	kW	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
Cooling EN14825	Power Input	kW	1.60	2.23	2.56	3.58	3.68	4.60
	Pdesign	kW	6.90	10.00	10.0	12.00	12.0	14.0
	SEER/Energy Efficiency Class (or ηsc %)		7.82/A++	7.97/A++	6.54/A++	7.34/300.2	6.17/243.8	5.89/232.6
Heating EN14825	Seasonal Energy Consumption	kWh/a	429	604	535	660	1190	1400
	Range Min. - Max.	kW	1.3 - 11.3	2.6 - 13.0	2.4 - 14.0	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	1.80	2.38	2.51	3.59	3.48	4.30
	Pdesign	kW	6.80	7.60	11.6	8.00	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		5.05/A++	4.71/A++	4.21/A+	4.70/185.4	4.19/164.6	4.19/164.6
	Seasonal Energy Consumption	kWh/a	2372	2489	3853	2543	3931	4003
Indoor Data								
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 6 - 150	392 - 278 - 208	392 - 28 - 208	392 - 28 - 208
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540	1410 - 1000 - 750	1410 - 1000 - 750	1410 - 1000 - 750
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28	41 - 36 - 29	41 - 36 - 29	41 - 36 - 29
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43	56 - 51 - 44	56 - 51 - 44	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1270 x 690	235 x 1270 x 690
	Weight	kg	23	23	23	29	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	10	15	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data								
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	3180 - 883	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	46/48	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	63/65	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	74	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 1.9	R32 - 3.1	R32 - 2.6	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	35	40	40
Run Current	Maximum	A	8.70	11.39	4.75	17.18	6.50	7.60
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,472	£1,606	£1,606	£1,902	£1,902	£1,902
OUTDOOR RETAIL PRICE			£2,243	£2,793	£2,964	£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£3,794	£4,478	£4,649	£5,050	£5,076	£5,273

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Slim Ducted Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit 1		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Nominal	Cooling Capacity	kW	5.0	7.1	10.0	10.0
	Heating Capacity	kW	5.6	8.0	11.2	11.2
	EER/COP	W/W	3.21/3.54	3.80/4.40	3.91/4.19	3.6/4.21
UK	Cooling Total/Sensible	kW	4.8/3.6	7.4/5.0	9.6/7.2	9.60/7.20
	Heating	kW	3.55	5.25	8.00	7.31
Cooling EN14825	Range Min. - Max.	kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0
	Power Input	kW	1.56	1.87	2.56	2.78
	Pdesign	kW	5.00	7.10	10.00	10.0
	SEER/Energy Efficiency Class		5.77/A+	6.50/A++	6.65/A++	5.60/A+
	Seasonal Energy Consumption	kWh/a	303	466	696	624
Heating EN14825	Range Min. - Max.	kW	0.9 - 7.0	1.3 - 11.3	2.6 - 13.0	2.4 - 14.0
	Power Input	kW	1.58	1.82	2.67	2.66 (0.53-4.26)
	Pdesign	kW	3.80	7.00	7.60	11.6
	SCOP/Energy Efficiency Class		4.20/A+	4.51/A+	4.00/A+	3.84/A
	Seasonal Energy Consumption	kWh/a	1266	2450	2569	4228
Indoor Data						
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162	217 - 22 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	690 - 600 - 522	780 - 678 - 582	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)	29 (4-44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43	55 - 53 - 48
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51	210 x 845 x 645
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58	22
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	x x
	Weight	kg	22	22	22	0.0
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	10	10
	Max. Length Distributor To Furthest Indoor	m	10	10	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	2250 - 625	3180 - 883	6960 - 1933	6060 - 1683
Sound	Pressure High Cooling/Heating	dB(A)	46/48	46/48	49/50	49/50
	Power High Cooling/Heating	dB(A)	63/65	63/65	66/67	66/67
Unit	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	45	74	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 1.35	R32 - 1.9	R32 - 3.1	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	20	35	35	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20
Run Current	Maximum	A	7.81	9.14	12.78	5.23
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10
INDOOR RETAIL PRICE			£1,460	£1,492	£1,522	£1,522
OUTDOOR RETAIL PRICE			£1,413	£2,243	£2,793	£2,964
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79
SYSTEM RETAIL PRICE			£2,952	£3,814	£4,394	£4,565

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ducted Indoor Unit

CODE			100	100	125
Performance					
Indoor Unit 1		RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E
Indoor Unit 2		RAV-	RM561BTP-E	RM561BTP-E	RM801BTP-E
Outdoor Unit		RAV-	GP1101AT-E	GP1101AT8-E	GP1401AT-E1
Nominal	Cooling Capacity	kW	10.0	10.0	12.5
	Heating Capacity	kW	11.2	11.2	14.0
	EER/COP	W/W	4.17/4.10	3.88/4.06	3.50/3.86
UK	Cooling Total/Sensible	kW	9.6/8.0	9.60/8.00	11.8/9.0
	Heating	kW	8.00	7.31	9.76
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0
	Power Input	kW	2.40	2.58	3.57
	Pdesign	kW	10.00	10.0	12.00
	SEER/Energy Efficiency Class (or ηsc %)		6.74/A++	5.81/A+	6.27/239.4
	Seasonal Energy Consumption	kWh/a	696	602	707
Heating EN14825	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 15.6	2.6 - 16.5
	Power Input	kW	2.73	2.76 (0.53-4.42)	3.63
	Pdesign	kW	7.60	10.8	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.26/A+	4.16/A+	4.25/166.6
	Seasonal Energy Consumption	kWh/a	2569	3630	2569
Indoor Data					
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	222 - 17 - 150	333 - 258 - 200
	High - Medium - Low	m³/h	800 - 630 - 480	800 - 660 - 540	1200 - 930 - 720
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (30-120)	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	33 - 29 - 25	34 - 30 - 26
	Power High - Medium - Low	dB(A)	55 - 51 - 46	55 - 51 - 46	55 - 51 - 46
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 700 x 750	275 x 1000 x 750
	Weight	kg	23	23	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 52/-27 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370
	Weight	kg	104	95	104
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 3.1
	Additional Charge Main Liquid Side	g/m	35	40	35
	Additional Charge Sub Liquid Side	g/m	20	20	35
Run Current	Maximum	A	13.06	5.19	17.37
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25
INDOOR RETAIL PRICE			£1,436	£1,436	£1,852
OUTDOOR RETAIL PRICE			£2,793	£2,964	£3,069
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£4,308	£4,479	£5,000

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Ducted Indoor Unit (continued)

CODE			125	140
Performance				
Indoor Unit 1		RAV-	RM801BTP-E	RM801BTP-E
Indoor Unit 2		RAV-	RM801BTP-E	RM801BTP-E
Outdoor Unit		RAV-	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5	14.0
	Heating Capacity	kW	14.0	16.0
	EER/COP	W/W	3.28/3.83	3.12/3.5
UK	Cooling Total/Sensible	kW	14.80/10.60	14.80/10.60
	Heating	kW	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	3.1 - 14.0
	Power Input	kW	3.81	4.49
	Pdesign	kW	12.5	14.0
	SEER/Energy Efficiency Class (or η_{sc} %)		5.64/222.6	5.50/217.0
	Seasonal Energy Consumption	kWh/a	1366	1566
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5	2.6 - 16.5
	Power Input	kW	3.66 (0.53-5.71)	4.57 (0.53-6.96)
	Pdesign	kW	11.8	12.0
	SCOP/Energy Efficiency Class (or $\eta_{sc}(A)$ %)		3.96/155.4	3.94/154.6
	Seasonal Energy Consumption	kWh/a	4176	4271
Indoor Data				
Air Flow	High - Medium - Low	l/s	333 - 275 - 242	333 - 275 - 242
	High - Medium - Low	m ³ /h	1200 - 990 - 870	1200 - 990 - 870
External Static Pressure	Standard (Upper - Lower)	Pa	30 (30-120)	30 (30-120)
Sound	Pressure High - Medium - Low	dB(A)	34 - 30 - 26	34 - 30 - 26
	Power High - Medium - Low	dB(A)	55 - 51 - 46	55 - 51 - 46
Unit	Height x Width x Depth	mm	275 x 1000 x 750	275 x 1000 x 750
	Weight	kg	30	30
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data				
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m ³ /h - l/s	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/52	51/53
	Power High Cooling/Heating	dB(A)	68/69	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	40	40
	Additional Charge Sub Liquid Side	g/m	40	40
Run Current	Maximum	A	6.74	7.84
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,852	£1,852
OUTDOOR RETAIL PRICE			£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79
SYSTEM RETAIL PRICE			£5,026	£5,223

For Features and Accessories, please refer to the individual single-split system units.



Twin-Split Floor-Mounted Cabinet Indoor Unit

CODE		100	100	125	125	140
Performance						
Indoor Unit 1		RAV-	RM561FT-ES	RM561FT-ES	RM801FT-ES	RM801FT-ES
Indoor Unit 2		RAV-	RM561FT-ES	RM561FT-ES	RM801FT-ES	RM801FT-ES
Outdoor Unit		RAV-	GP1101AT-E	GP1101AT8-E	GP1401AT-E1	GP1401AT8-E
Nominal	Cooling Capacity	kW	10.0	10.0	12.5	14.0
	Heating Capacity	kW	11.2	11.2	14.0	16.0
	EER/COP	W/W	4.07/4.04	4.07/4.04	3.46/3.67	3.19/3.31
UK	Cooling Total/Sensible	kW	9.60/6.80	9.60/6.80	13.40/9.20	13.40/9.20
	Heating	kW	7.31	7.31	9.14	10.45
	Range Min. - Max.	kW	2.6 - 12.0	2.6 - 12.0	2.6 - 14.0	2.6 - 16.0
Cooling EN14825	Power Input	kW	2.46	2.46	3.61	4.39
	Pdesign	kW	10	10.0	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		5.88/A+	5.88/A+	5.65/223.0	5.55/219.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	595	595	1229	1513
	Range Min. - Max.	kW	2.4 - 14.0	2.4 - 14.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.09	3.09	3.81	4.83
	Pdesign	kW	10.8	10.8	14.0	16.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.01/A+	4.01/A+	4.00/157.0	3.96/155.4
	Seasonal Energy Consumption	kWh/a	3767	3767	3086	4238
Indoor Data						
Air Flow	High - Medium - Low	l/s	228 - 194 - 167	228 - 194 - 167	258 - 214 - 178	258 - 214 - 178
	High - Medium - Low	m ³ /h	820 - 700 - 600	820 - 700 - 600	930 - 770 - 640	930 - 770 - 640
Sound Pressure	High - Medium - Low	dB(A)	46 - 42 - 38	46 - 42 - 38	50 - 45 - 41	50 - 45 - 41
Sound Power	High - Medium - Low	dB(A)	60 - 56 - 52	60 - 56 - 52	64 - 60 - 54	64 - 60 - 54
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	44	44	45	45
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (fitted)			RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES
Outdoor Data						
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15
Air Flow	High	m ³ /h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320
	Weight	kg	104	95	104	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge	m	R32 - 3.1	R32 - 2.6	R32 - 3.1	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	40	40	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	35	40
Run Current	Maximum	Amps	13.21	5.80	18.80	6.65
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16
INDOOR RETAIL PRICE			£3,736	£3,736	£3,996	£3,996
OUTDOOR RETAIL PRICE			£2,793	£2,964	£3,069	£3,292
SYSTEM RETAIL PRICE			£6,529	£6,700	£7,065	£7,288

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split High-Wall Indoor Unit

CODE			95	100	121	125	140
Performance							
Indoor Unit 1		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM561KRTP-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM561KRTP-E
Indoor Unit 3		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E	RM401KRTP-E	RM561KRTP-E
Outdoor Unit		RAV-	GP1101AT-E	GP1101AT8-E	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	10.0	10.0	12.1	12.3	14.0
	Heating Capacity	kW	11.2	11.2	12.8	14.0	16.0
	EER/COP	W/W	4.10/4.10	3.83/4.21	3.45/3.66	3.3/3.7	3.01/3.29
UK	Cooling Total/Sensible	kW	9.63/7.32	-	12.03/8.84	-	14.40/11.70
	Heating	kW	7.10	7.3	8.88	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	2.6 - 13.5	2.6 - 16.0
	Power Input	kW	2.44	2.61	3.55	3.37	4.65
	Pdesign	kW	10.00	10.00	12.5	12.3	14
	SEER/Energy Efficiency Class (or ηsc %)		8.15/A++	6.35/a++	6.69/264.6	6.10/241.0	5.82/229.8
	Seasonal Energy Consumption	kWh/a	429	551	-	-	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 14.0	3.0 - 16.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.73	2.66	3.66	3.78	4.87
	Pdesign	kW	9.20	10.8	9.60	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.05/A+	4.14/A+	4.37/171.8	4.11/161.4	4.08/160.2
	Seasonal Energy Consumption	kWh/a	3179	3647	-	-	-
Indoor Data							
Air Flow	High - Medium - Low	l/s	158 - 128 - 83	267 - 230 - 188	192 - 145 - 83	192 - 145 - 83	267 - 8 - 189
	High - Medium - Low	m³/h	570 - 462 - 300	960 - 828 - 678	690 - 522 - 300	690 - 522 - 300	960 - 830 - 680
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	40 - 34 - 29	45 - 40 - 30	45 - 40 - 30	42 - 39 - 35
	Power High - Medium - Low	dB(A)	56 - 52 - 44	56 - 52 - 44	60 - 55 - 45	60 - 55 - 45	57 - 54 - 50
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
	Weight	kg	10	10	10	10	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14	0
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Infra-Red - hard-wired recommended)			WH-L17SE	WH-TA09NE	WH-L17SE	WH-TA09NE	WH-TA09NE
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20
Run Current	Maximum	A	15.14	5.48	22.78	6.97	8.57
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,137	£1,137	£1,236	£1,236	£1,521
OUTDOOR RETAIL PRICE			£2,793	£2,964	£3,069	£3,095	£3,292
RBC-TRP100E			£263	£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£4,272	£4,443	£4,647	£4,673	£5,155

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Compact Cassette Indoor Unit

CODE			100	100	125	125	140
Performance							
Indoor Unit 1		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 2		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Indoor Unit 3		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E	RM401MUT-E	RM561MUT-E
Outdoor Unit		RAV-	GP1101AT-E	GP1101AT8-E	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	10.0	10.0	12.5	12.5	14.0
	Heating Capacity	kW	11.2	11.2	14.0	14.0	16.0
	EER/COP	W/W	4.18/4.19	3.84/3.74	3.96/3.96	3.65/4.11	3.30/3.51
UK	Cooling Total/Sensible	kW	9.60/7.20	9.60/7.20	-	14.80/12.40	14.40/10.80
	Heating	kW	8.00	7.31	-	9.14	10.45
	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
Cooling EN14825	Power Input	kW	2.39	2.60	3.16	3.42	4.24
	Pdesign	kW	10.00	10.00	12.00	12.50	14.00
	SEER/Energy Efficiency Class (or η_{sc} %)		7.70/A++	6.16/A++	-	7.06/279.4	6.09/240.6
Heating EN14825	Seasonal Energy Consumption	kWh/a	597	568	-	-	-
	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 14.0	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	2.67	2.99 (0.53-4.26)	3.21	3.41	3.21
	Pdesign	kW	7.60	10.3	8.00	9.5	12.0
	SCOP/Energy Efficiency Class (or $\eta_{sc}(A)$ %)		4.40/A+	3.93/A	-	4.36/171.4	4.13/162.2
	Seasonal Energy Consumption	kWh/a	2616	3667	-	-	-
Indoor Data							
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130	183 - 153 - 130	222 - 6 - 152
	High - Medium - Low	m ³ /h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468	660 - 552 - 468	798 - 562 - 546
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	38 - 36 - 30	41 - 36 - 32	41 - 36 - 32	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53 - 51 - 45	56 - 51 - 47	56 - 51 - 47	59 - 54 - 50
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	3	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data							
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m ³ /h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20
Run Current	Maximum	A	12.78	5.44	15.36	6.97	8.39
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£3,246	£3,246	£3,267	£3,267	£3,318
OUTDOOR RETAIL PRICE			£2,793	£2,964	£3,069	£3,095	£3,292
RBC-TRP100E			£263	£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£6,381	£6,552	£6,678	£6,704	£6,952

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split 4-Way Cassette Indoor Unit

CODE		140	
Performance			
Indoor Unit 1		RAV-	RM561UTP-E
Indoor Unit 2		RAV-	RM561UTP-E
Indoor Unit 3		RAV-	RM561UTP-E
Outdoor Unit		RAV-	GP1601AT8-E
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	3.96/3.74
UK	Cooling Total/Sensible	kW	14.40/11.70
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 16.0
	Power Input	kW	4.34
	Pdesign	kW	14.0
	SEER/Energy Efficiency Class (or ηsc %)		6.71/265.4
	Seasonal Energy Consumption	kWh/a	1249
Heating EN14825	Range Min. - Max.	kW	2.4 - 19.0
	Power Input	kW	4.28
	Pdesign	kW	9.5
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.36/171.4
	Seasonal Energy Consumption	kWh/a	3049
Indoor Data		RAV-	RM561UTP-E
Air Flow	High - Medium - Low	l/s	292 - 242 - 217
	High - Medium - Low	m³/h	1050 - 870 - 780
Sound	Pressure High - Medium - Low	dB(A)	32 - 29 - 28
	Power High - Medium - Low	dB(A)	47 - 44 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840
	Weight	kg	20
Panel	Height x Width x Depth	mm	30 x 950 x 950
	Weight RBC-UM11PG(W)-E	kg	4
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10
	Max. Length Distributor To Furthest Indoor	m	15
	Drain Pipe Connection OD/ID	mm	VP25
Power Cable	Indoor to Indoor		2 core + earth
Remote Controller			RBC-AMTU31-E
Outdoor Data		RAV-	GP1601AT8-E
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Sub Liquid Side	g/m	20
Run Current	Maximum	A	7.55
Power Cable	Outdoor to Header Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE		£2,868	
OUTDOOR RETAIL PRICE		£3,292	
RBC-TRP100E		£263	
REMOTE CONTROLLER RBC-AMTU31-E		£79	
SYSTEM RETAIL PRICE		£6,502	

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Ceiling Indoor Unit

CODE			125	125	140
Performance					
Indoor Unit 1		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Indoor Unit 2		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Indoor Unit 3		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5	12.3	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	3.49/3.9	3.4/4.02	3.04/3.72
UK	Cooling Total/Sensible	kW	11.90/8.90	14.80/11.00	14.80/11.00
	Heating	kW	9.76	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.58	3.68	4.60
	Pdesign	kW	12.00	12.00	14.00
	SEER/Energy Efficiency Class (or ηsc %)		7.34/300.2	6.17/243.8	5.95/235.0
	Seasonal Energy Consumption		kWh/a	660	1190
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.59	3.48	4.30
	Pdesign	kW	8.0	11.8	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.70/185.4	4.19/164.6	4.19/164.6
	Seasonal Energy Consumption		kWh/a	2543	3931
Indoor Data		RAV-	RM401CTP-E	RM401CTP-E	RM561CTP-E
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150
	High - Medium - Low	m³/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28	37 - 35 - 28	37 - 35 - 28
	Power High - Medium - Low	dB(A)	52 - 50 - 43	52 - 50 - 43	52 - 50 - 43
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 950 x 690
	Weight	kg	23	23	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	17.18	6.50	7.60
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£2,208	£2,208	£2,409
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
RBC-TRP100E			£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£5,619	£5,645	£6,043

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Slim Ducted Indoor Unit

CODE			100	100	125	125	140
Performance							
Indoor Unit 1		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Indoor Unit 3		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GP1101AT-E	GP1101AT8-E	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	10.0	10.0	12.5	12.5	14.0
	Heating Capacity	kW	11.2	11.2	14.0	14.0	16.0
	EER/COP	W/W	3.91/4.19	3.6/4.21	3.5/3.86	3.28/3.83	3.26/3.50
UK	Cooling Total/Sensible	kW	9.60/7.20	9.60/7.20	-	14.80/10.60	14.40/10.80
	Heating	kW	8.00	7.31	-	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 12.0	2.6 - 12.0	3.1 - 14.0	3.1 - 14.0	2.6 - 16.0
	Power Input	kW	2.56	2.78	3.57	3.81	4.30
	Pdesign	kW	10.00	10.00	12.00	12.50	14.00
	SEER/Energy Efficiency Class		6.65/A++	5.60/A+	-	5.64/222.6	5.98/236.2
	Seasonal Energy Consumption	kWh/a	696	624	-	-	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 13.0	2.4 - 14.0	2.6 - 16.5	2.6 - 16.5	2.4 - 19.0
	Power Input	kW	2.67	2.66 (0.53-4.26)	3.63	3.66 (0.53-5.71)	4.57
	Pdesign	kW	7.60	11.6	8.00	11.8	12.0
	SCOP/Energy Efficiency Class		4.00/A+	3.84/A	-	3.96/155.4	4.07/159.8
	Seasonal Energy Consumption	kWh/a	2569	4228	-	-	-
Indoor Data		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E	RM401SDT-E	RM561SDT-E
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145	192 - 167 - 145	217 - 22 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	660 - 560 - 480	690 - 600 - 522	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5-45)	30 (5 - 45)	30 (5-45)	29 (4-44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	-	45 - 43 - 41	45 - 43 - 41	-
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	45 - 43 - 41	54 - 51 - 48	54 - 51 - 48	55 - 53 - 48
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	-	60 - 58 - 56	60 - 58 - 56	-
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	15	15	15	15	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	0
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data		RAV-	GP1101AT-E	GP1101AT8-E	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6060 - 1683	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	49/50	49/50	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	66/67	66/67	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	35	40	40
	Additional Charge Sub Liquid Side	g/m	20	20	20	20	20
Run Current	Maximum	A	12.78	5.23	17.37	6.74	8.39
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-20	380-415/3/50-10	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£2,190	£2,190	£2,238	£2,238	£2,283
OUTDOOR RETAIL PRICE			£2,793	£2,964	£3,069	£3,095	£3,292
RBC-TRP100E			£263	£263	£263	£263	£263
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79	£79	£79
SYSTEM RETAIL PRICE			£5,325	£5,496	£5,649	£5,675	£5,917

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Ducted Indoor Unit

CODE			125
Performance			
Indoor Unit 1		RAV-	RM561BTP-E
Indoor Unit 2		RAV-	RM561BTP-E
Indoor Unit 3		RAV-	RM561BTP-E
Outdoor Unit		RAV-	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5
	Heating Capacity	kW	14.0
	EER/COP	W/W	3.12/3.5
UK	Cooling Total/Sensible	kW	14.40/12.00
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0
	Power Input	kW	4.49
	Pdesign	kW	14.0
	SEER/Energy Efficiency Class (or ηsc %)		5.42/213.8
	Seasonal Energy Consumption		kWh/a
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5
	Power Input	kW	4.57 (0.53-6.96)
	Pdesign	kW	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.94/154.6
	Seasonal Energy Consumption	kWh/a	4271
Indoor Data			
Air Flow	High - Medium - Low	l/s	222 - 183 - 150
	High - Medium - Low	m³/h	800 - 630 - 480
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33/29/25
	Power High - Medium - Low	dB(A)	55/51/46
Unit	Height x Width x Depth	mm	275 x 700 x 750
	Weight	kg	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	10
	Max. Length Distributor To Furthest Indoor	m	15
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850
	Power Cable	Indoor to Indoor	2 core + earth
Remote Controller		RBC-AMTU31-E	
Outdoor Data			
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Sub Liquid Side	g/m	20
Run Current	Maximum	A	7.84
Power Cable	Outdoor to Header Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE			£2,154
OUTDOOR RETAIL PRICE			£3,292
RBC-TRP100E			£263
REMOTE CONTROLLER RBC-AMTU31-E			£79
SYSTEM RETAIL PRICE			£5,788

For Features and Accessories, please refer to the individual single-split system units.



Triple-Split Floor-Mounted Cabinet Indoor Unit

CODE			140
Performance			
Indoor Unit 1		MMF-	RM561FT-ES
Indoor Unit 2		MMF-	RM561FT-ES
Indoor Unit 3		MMF-	RM561FT-ES
Outdoor Unit		RAV-	GP1601AT8-E
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	3.19/3.31
UK	Cooling Total/Sensible	kW	13.30/8.90
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 16.0
	Power Input	kW	4.39
	Pdesign	kW	14.0
	SEER/Energy Efficiency Class (or ηsc %)		5.55/219.0
	Seasonal Energy Consumption		kWh/a
Heating EN14825	Range Min. - Max.	kW	2.4 - 19.0
	Power Input	kW	4.83
	Pdesign	kW	16.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.96/155.4
	Seasonal Energy Consumption		kWh/a
Indoor Data		MMF-	RM561FT-ES
Air Flow	High - Medium - Low	l/s	228 - 194 - 167
	High - Medium - Low	m³/h	820 - 700 - 600
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 38
	Power High - Medium - Low	dB(A)	60 - 56 - 52
Unit	Height x Width x Depth	mm	1750 x 600 x 210
	Weight	kg	44
Pipe Connection	Flare Connections (gas - liquid)		1/2 - 1/4
	Height Difference Indoor To Indoor		±0.5
	Branch Kit (Sold Separately)		RBC-TRP100E
	Sub Branch Line To Indoor (gas - liquid)		1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)		5/8 - 3/8
	Max. Subtractive Separation Between Indoors		10
	Max. Length Distributor To Furthest Indoor		15
	Drain Pipe Connection		VP26/20
Power Cable	Indoor to Indoor		2 core + earth
Remote Controller (fitted)		RBC-AMS55E-ES	
Outdoor Data		RAV-	GP1601AT8-E
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)		5/8 - 3/8
	Min.-Max. Length		3-50
	Maximum Height Difference		±30
	Drain Port Connection		16
Refrigerant	Gas - Base Charge	kg	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Sub Liquid Side	g/m	20
Run Current	Maximum	A	7.60
Power Cable	Outdoor to Header Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE			£5,604
OUTDOOR RETAIL PRICE			£3,292
RBC-TRP100E			£263
SYSTEM RETAIL PRICE			£9,159

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split High-Wall Indoor Unit

CODE			121	125	140
Performance					
Indoor Unit 1		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E
Indoor Unit 2		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E
Indoor Unit 3		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E
Indoor Unit 4		RAV-	RM301KRTP-E	RM301KRTP-E	RM401KRTP-E
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.1	12.3	14.0
	Heating Capacity	kW	12.8	14.0	16.0
	EER/COP	W/W	3.45/3.66	3.3/3.7	3.01/3.29
UK	Cooling Total/Sensible	kW	12.03/8.84	-	13.40/9.60
	Heating	kW	8.88	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 13.5	2.6 - 16.0
	Power Input	kW	3.55	3.37	4.65
	Pdesign	kW	12.5	12.3	14
	SEER/Energy Efficiency Class (or ηsc %)		6.69/264.6	6.10/241.0	5.82/229.8
Heating EN14825	Seasonal Energy Consumption	kWh/a	-	-	-
	Range Min. - Max.	kW	3.0 - 16.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.66	3.78	4.87
	Pdesign	kW	9.60	11.80	12.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.37/171.8	4.11/161.4	4.08/160.2
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	158 - 128 - 83	158 - 128 - 83	192 - 145 - 83
	High - Medium - Low	m³/h	570 - 462 - 300	570 - 462 - 300	690 - 522 - 300
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	40 - 34 - 29	45 - 40 - 30
	Power High - Medium - Low	dB(A)	56 - 52 - 44	56 - 52 - 44	60 - 55 - 45
Unit	Height x Width x Depth	mm	293 x 798 x 230	275 x 790 x 217	275 x 790 x 217
	Weight	kg	10	10	10
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	5
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15
	Max. Distance From Second Distributor To Indoors	m	10	10	10
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
	Remote Controller (Infra-Red - hard-wired recommended)		WH-TA09NE	WH-TA09NE	WH-TA09NE
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	22.78	6.97	8.57
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£1,516	£1,516	£1,648
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£4,664	£4,690	£5,019

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Compact Cassette Indoor Unit

CODE			125	125	140
Performance					
Indoor Unit 1		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Indoor Unit 2		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Indoor Unit 3		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Indoor Unit 4		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	3.96/3.96	3.65/4.11	3.30/3.51
UK	Cooling Total/Sensible	kW	-	14.80/12.40	14.40/10.80
	Heating	kW	-	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	3.16	3.42	4.24
	Pdesign	kW	12.00	12.50	14.00
SEER/Energy Efficiency Class (or ηsc %)			-	7.06/279.4	6.09/240.6
Seasonal Energy Consumption		kWh/a	-	-	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.21	3.41	3.21
	Pdesign	kW	8.00	9.50	12.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		-	4.36/171.4	4.13/162.2
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data		RAV-	RM301MUT-E	RM301MUT-E	RM401MUT-E
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130
	High - Medium - Low	m³/h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468
Sound	Pressure High - Medium - Low	dB(A)	38 - 36 - 30	38/36/30	41 - 36 - 32
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53/51/45	56 - 51 - 47
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	5
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15
	Max. Distance From Second Distributor To Indoors	m	10	10	10
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	15.36	6.97	8.39
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£4,328	£4,328	£4,356
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£7,476	£7,502	£7,727

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Ceiling Indoor Unit

CODE		140	
Performance			
Indoor Unit 1		RAV-	RM401CTP-E
Indoor Unit 2		RAV-	RM401CTP-E
Indoor Unit 3		RAV-	RM401CTP-E
Indoor Unit 4		RAV-	RM401CTP-E
Outdoor Unit		RAV-	GP1601AT8-E
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	3.04/3.72
UK	Cooling Total/Sensible	kW	14.80/11.00
	Heating	kW	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 16.0
	Power Input	kW	4.60
	Pdesign	kW	14.00
	SEER/Energy Efficiency Class (or ηsc %)		5.95/235.0
Heating EN14825	Seasonal Energy Consumption	kWh/a	1400
	Range Min. - Max.	kW	2.4 - 19.0
	Power Input	kW	4.30
	Pdesign	kW	12.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6
	Seasonal Energy Consumption	kWh/a	4003
Indoor Data		RAV-	RM401CTP-E
Air Flow	High - Medium - Low	l/s	250 - 200 - 150
	High - Medium - Low	m³/h	900 - 720 - 540
Sound	Pressure High - Medium - Low	dB(A)	37 - 35 - 28
	Power High - Medium - Low	dB(A)	52 - 50 - 43
Unit	Height x Width x Depth	mm	235 x 950 x 690
	Weight	kg	23
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4
	Height Difference Indoor To Indoor	m	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5
	Max. Length Main Distributor To Furthest Indoor	m	15
	Max. Distance From Second Distributor To Indoors	m	10
	Drain Pipe Connection OD/ID	mm	VP26/20
Power Cable	Indoor to Indoor	2 core + earth	
Remote Controller		RBC-AMTU31-E	
Outdoor Data		RAV-	GP1601AT8-E
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	51/53
	Power High Cooling/Heating	dB(A)	68/70
Unit	Height x Width x Depth	mm	1340 x 900 x 320
	Weight	kg	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Min.-Max. Length	m	3-50
	Maximum Height Difference	m	±30
	Drain Port Connection	mm	16
Refrigerant	Gas - Base Charge	kg	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	40
	Additional Charge Second Dist. Liquid Side	g/m	20
	Additional Charge Sub Liquid Side	g/m	20
Run Current	Maximum	A	7.60
Power Cable	Outdoor to Header Indoor	3 core + earth	
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16
INDOOR RETAIL PRICE		£2,944	
OUTDOOR RETAIL PRICE		£3,292	
REMOTE CONTROLLER RBC-AMTU31-E		£79	
SYSTEM RETAIL PRICE		£6,315	

For Features and Accessories, please refer to the individual single-split system units.



Quad-Split Slim Ducted Indoor Unit

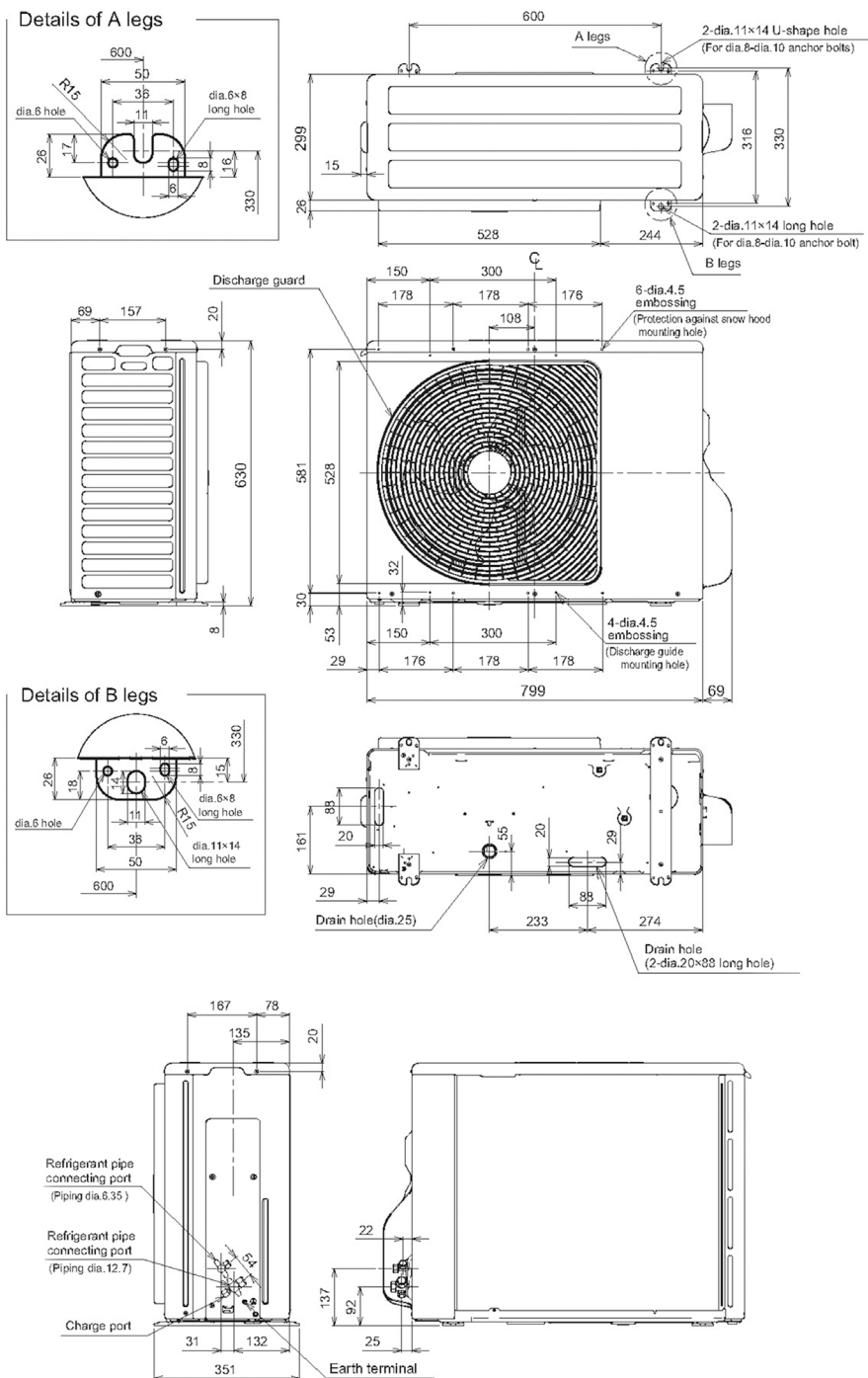
CODE			125	125	140
Performance					
Indoor Unit 1		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E
Indoor Unit 2		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E
Indoor Unit 3		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E
Indoor Unit 4		RAV-	RM301SDT-E	RM301SDT-E	RM401SDT-E
Outdoor Unit		RAV-	GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Nominal	Cooling Capacity	kW	12.5	12.5	14.0
	Heating Capacity	kW	14.0	14.0	16.0
	EER/COP	W/W	3.5/3.86	3.28/3.83	3.26/3.50
UK	Cooling Total/Sensible	kW	-	14.80/10.60	14.40/10.80
	Heating	kW	-	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	3.1 - 14.0	3.1 - 14.0	2.6 - 16.0
	Power Input	kW	3.57	3.81	4.30
	Pdesign	kW	12.00	12.50	14.00
	SEER/Energy Efficiency Class (or ηsc %)		-	5.64/222.6	5.98/236.2
	Seasonal Energy Consumption	kWh/a	-	-	-
Heating EN14825	Range Min. - Max.	kW	2.6 - 16.5	2.6 - 16.5	2.4 - 19.0
	Power Input	kW	3.63	3.66 (0.53-5.71)	4.57
	Pdesign	kW	8.00	11.80	12.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		-	3.96/155.4	4.07/159.8
	Seasonal Energy Consumption	kWh/a	-	-	-
Indoor Data					
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145
	High - Medium - Low	m³/h	660 - 560 - 480	660 - 560 - 480	690 - 600 - 522
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5-45)	30 (5-45)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	39 - 36 - 33
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	45 - 43 - 41
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	54 - 51 - 48
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	60 - 58 - 56
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	5/8 - 3/8
	Height Difference Indoor To Indoor	m	±0.5	±0.5	±0.5
	Sub Branch Line To Indoor (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Sub Branch Line To Second Dist. (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	1/2 - 1/4
	Outdoor Connection To Distributor (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	5
	Max. Length Main Distributor To Furthest Indoor	m	15	15	15
	Max. Distance From Second Distributor To Indoors	m	10	10	10
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP20	VP25 - VP20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m³/h - l/s	6960 - 1933	6180 - 1717	6180 - 1717
Sound	Pressure High Cooling/Heating	dB(A)	50/51	51/52	51/53
	Power High Cooling/Heating	dB(A)	67/68	68/69	68/70
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	104	95	95
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	3-50	3-50	3-50
	Maximum Height Difference	m	±30	±30	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge	kg	R32 - 3.1	R32 - 2.6	R32 - 2.6
	Additional Charge Main Liquid Side	g/m	35	40	40
	Additional Charge Second Dist. Liquid Side	g/m	20	20	20
	Additional Charge Sub Liquid Side	g/m	20	20	20
Run Current	Maximum	A	17.37	6.74	8.39
Power Cable	Outdoor to Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-25	380-415/3/50-16	380-415/3/50-16
INDOOR RETAIL PRICE			£2,920	£2,920	£2,984
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
REMOTE CONTROLLER RBC-AMTU31-E			£79	£79	£79
SYSTEM RETAIL PRICE			£6,068	£6,094	£6,355

For Features and Accessories, please refer to the individual single-split system units.

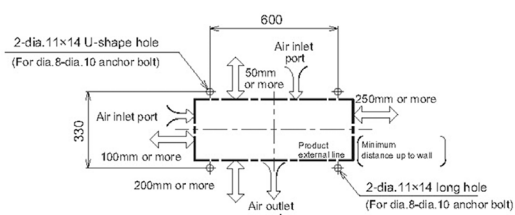


Dimensions - RAV-GP561AT(P)(W)-E - R32

Please refer to Engineering Data Book for model variance.

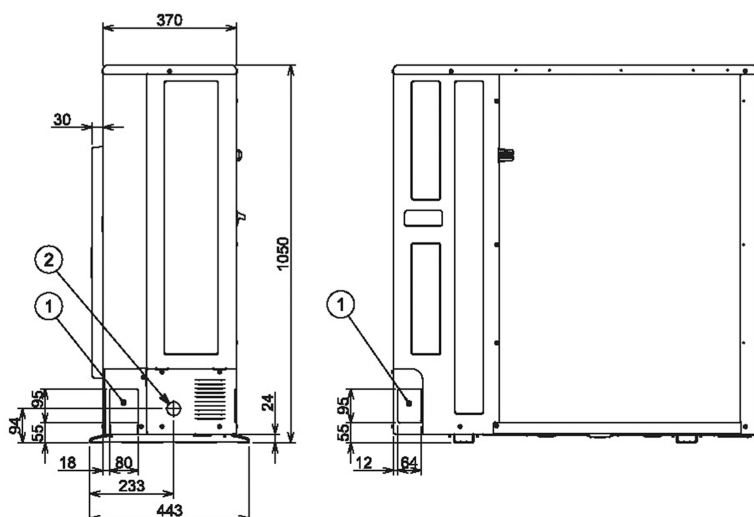
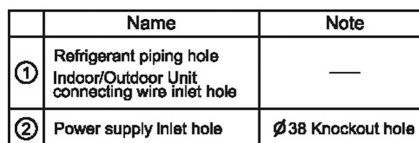


Space required for service



(Unit:mm)

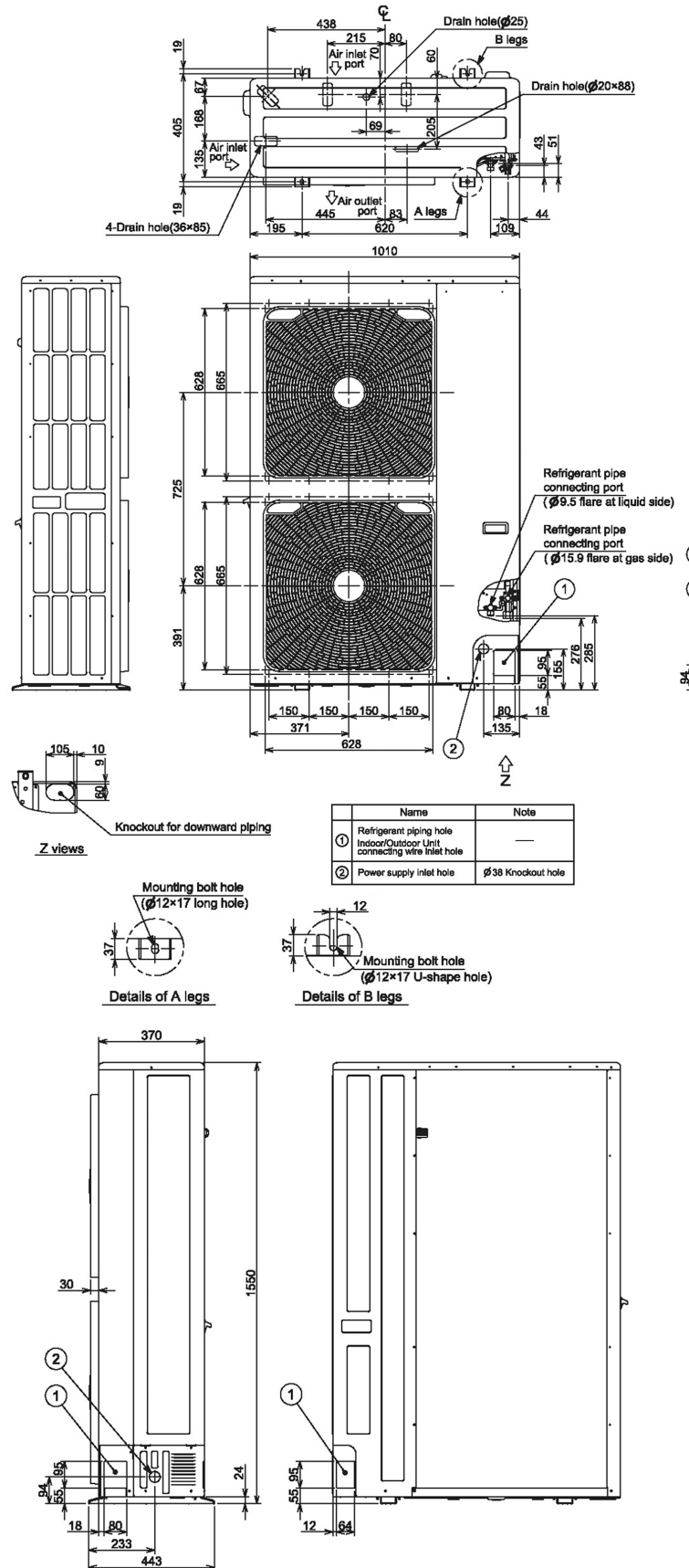
Please refer to Engineering Data Book for model variance.



TOSHIBA

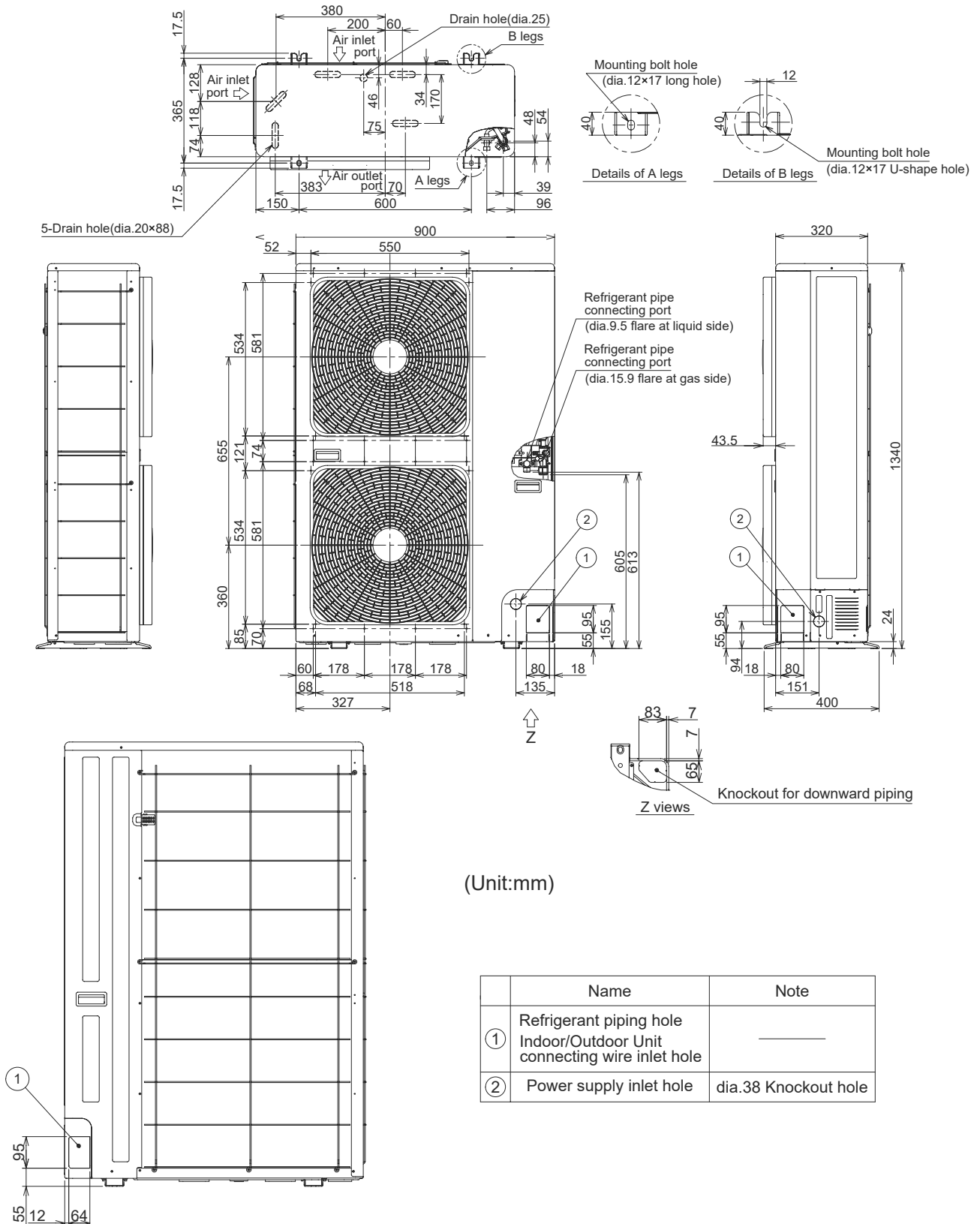


Dimensions - RAV-GP1101AT-E, RAV-GP1401AT-E1 - R32





Dimensions - RAV-GP1101AT8-E, RAV-GP1401AT8-E, RAV-GP1601AT8-E - R32



Refrigerant replacement technology

Standard factory-fitted filter installed within the refrigerant circuit of Digital Inverter and Super Digital Inverter R410A and R32 refrigerant outdoor units, enables reuse of existing pipework designed for R22, R407C and other common refrigerants subject to correct installation procedures and standards. High-mesh filters and stable lubricant oil guard against chloride compounds, and combined with high-tech Toshiba control intelligence, make DI and SDI outdoor units compatible when reusing existing pipework installations. This solution offers significant benefits in terms of energy-efficiency and economy.

Replacement technology piping specification RAV

Existing piping connection with different diameter gas and liquid line is possible using the criteria detailed below

Liquid Pipe Size "		1/4 (STD)				3/8 (1-size larger)			
Gas Pipe Size "		3/8 (STD)		1/2 (1-size larger)		3/8 (STD)		1/2 (1-size larger)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged
		m	m	m	m	m	m	m	m
RAV-DI R32	GM30*	20	15	20	15	13	7.5	13	7.5

Liquid Pipe Size "		1/4 (STD)						3/8 (1-size larger)			
Gas Pipe Size "		3/8 (1-size smaller)		1/2 (STD)		5/8 (1-size larger)		1/2 (STD)		5/8 (1-size larger)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged
		m	m	m	m	m	m	m	m	m	m
RAV-DI R32	GM40*	20	15	20	15	20	15	13	7.5	13	7.5
	GM56*			30	20	30	20	20	10	20	10
RAV-SDI R32	GP40*	30	20	30	20	30	20	20	10	20	10
	GP56*			50	20	50	20	20	10	20	10

Liquid Pipe Size "		1/4 (1-size smaller)				3/8 (STD)						1/2 (1-size larger)			
Gas Pipe Size "		1/2 (1-size smaller)		5/8 (STD)		1/2 (1-size smaller)		5/8 (STD)		3/4 (1-size larger)		5/8 (STD)		3/4 (1-size larger)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged
		m	m	m	m	m	m	m	m	m	m	m	m	m	m
RAV-DI R32	GM80*	20	20	20	20	30	20	30	20	30	20				
	GM90*	30	20	50	20	50	20	50	20	50	20				
	GM110*							50	30	50	30	25	15	25	15
	GM140*							50	30	50	30	25	15	25	15
	GM160*			50	30			50	30	50	30	25	15	25	15
RAV-SDI R32	GP80*	30	20	30	20	50	30	50	30	50	30				
	GP110*							75	30	75	30	25	15	25	15
	GP140*							75	30	75	30	25	15	25	15
	GP160*							50	30	75	30	25	15	25	15

Liquid Pipe Size "		1/2 (STD)				5/8 (1-size larger)			
Gas Pipe Size "		7/8 (1-size smaller)		1-1/8 (STD)		7/8 (1-size smaller)		1-1/8 (STD)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged	Length	Pre-charged	Length	Pre-charged
		m	m	m	m	m	m	m	m
RAV-DI R410A	SM224*	70	30	70	30	50	20	50	20
	SM280*	70	30	70	30	50	20	50	20
RAV-DI R32	GM224*	60	30	60	30	50	20	50	20
	GM280*	60	30	60	30	50	20	50	20

Common Refrigerants For
Existing Plant

R22
R407C

Replacement technology piping specification RAS

Existing piping connection with different diameter gas and liquid line is possible using the criteria detailed below

Liquid Pipe Size "		1/4 (STD)		3/8 (STD)	
Gas Pipe Size "		3/8 (STD)		1/2 (STD)	
Maximum Pipe Distance		Length	Pre-charged	Length	Pre-charged
		m	m	m	m
SEIYA	*05*	15	15		
	07	15	15		
	10	15	15		
	13	15	15		
	16			20	15
	18			20	15
	24			20	15
SHORAI	*10*	20	15		
	13	20	15		
	18			20	15
	22			20	15
	24			25	15

Smaller Pipe Sizes (Performance capacity is reduced due to the effect of gas pipe size being smaller than standard connection)

Normal Pipe Sizes

Larger Pipe Sizes

Not Compatible

> *Mini SMMS-e, SMMS-u, SHRM-e*

> CREATING BENEFITS AROUND COMFORT

> Benefits for the consultant

SMMS-u offers unlimited possibilities in terms of capacity, connectivity, indoor unit line-up and control solutions, providing the correct solution for your customers' needs. Toshiba's intuitive selection tool will guide you through the selection process with minimal input from your side, ensuring trouble-free installation and operation.

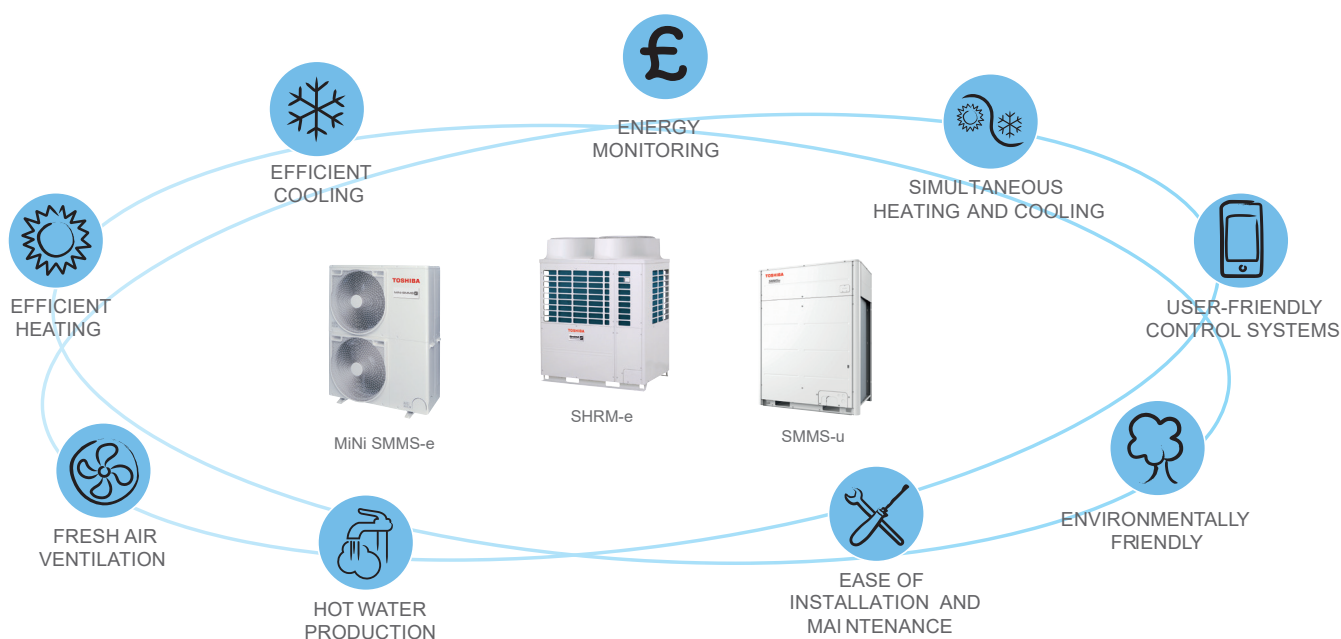
All SMMS-u systems come with the Eurovent certification as standard.

> Benefits for the user

There is nothing like a comfortable place to enjoy the present moment. Full of Toshiba innovations, the new SMMS-u guarantees all-year-round comfort combined with superior energy management, advanced air filtration and full control solutions for maximised product usability.

> Benefits for the installer

Designed to perform and engineered to perfection, SMMS-u excels in managing the heating, cooling, hot water and fresh air input into offices, shops, restaurants and domestic housing, with unrivalled connection flexibility. You can rely on Toshiba support, to assist you from the project phase to commissioning and troubleshooting.



> HIGH EFFICIENCY AND LOW OPERATING COSTS

> Innovative compressor technology

Toshiba rotary compressor technology brings outstanding performances to all SMMS systems with no compromise on system reliability.

> Infinite variable control

This feature has been continually evolved and developed, since its inception by TOSHIBA engineers back in 2004 with the original SMMS system. The control has the ability to adjust the compressor rotational speed in near-seamless 0.1 Hz steps. This control when matched with TOSHIBA's newest and latest twin-rotary compressors, allows the system to respond precisely to the capacity needs of the end-user, while minimising energy losses.



Large capacity



Less refrigerant needed



Low noise



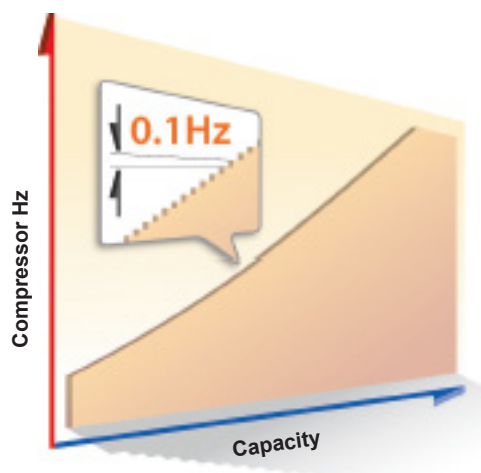
Wide operating range



Low vibration

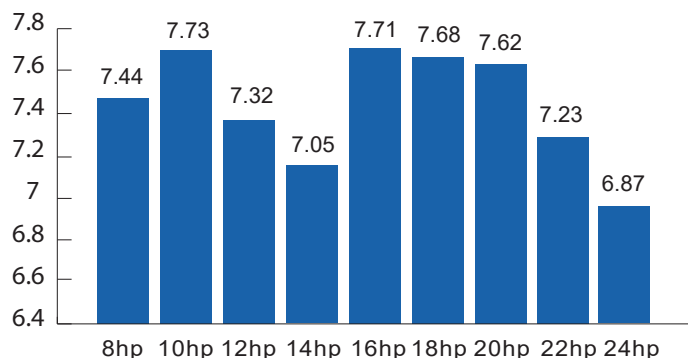


DLC treatment



> Maximum part load and full load efficiencies

SMMS-u SEER



Thanks to Toshiba's unique twin-rotary compressor, re-designed heat exchanger and "intelligent flow" technology, the Toshiba VRF units achieve an SEER of 9.68 (MiNi SMMS-e), one of the highest seasonal efficiency levels in the market.

Maximum efficiency is obtained under 50% part load conditions, under which VRF systems operate predominantly.

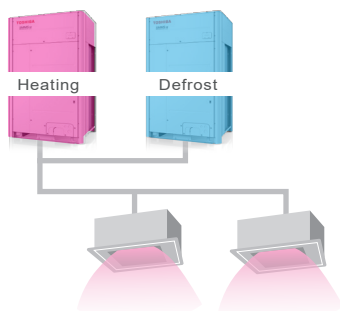
The expert use and evolution of Toshiba's core technologies have allowed the Toshiba VRF system to achieve the highest part load COP and EER in the industry.

> MiNi SMMS-e, SMMS-u, SHRM-e

> SUPERIOR AIR COMFORT

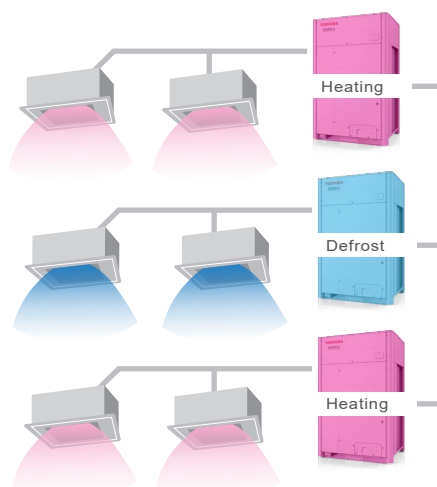
> Intelligent defrost

Individual defrost: continuous heating up to 5 hours



Kobetsu

No simultaneous defrost in combination configuration. Heating operation never stopped.



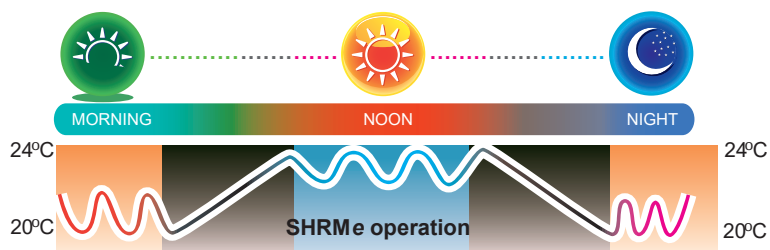
Renkei

No simultaneous defrost with multi system configuration. Heating operation never stopped.

* Applicable on SMMS-u only

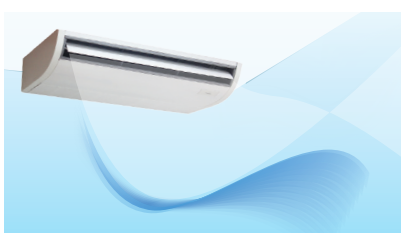
> Dual set point for more precision

The dual set point increases the system's energy efficiency and reduces overall running costs, with longer periods of time in thermal off mode. Heating and cooling temperatures at which the indoor unit will begin to operate can now be individually selected giving maximum flexibility to the user.

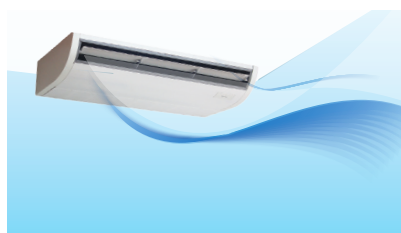


> Cool comfort with soft cooling mode

The development of the soft cooling mode provides a new level for cool comfort. You will have the freedom to personalise the air flow intensity, angle and direction directly from the remote control and enjoy the indoor environment at the right temperature without being directly exposed to the cold draught.



Standard operating mode



Soft cooling mode

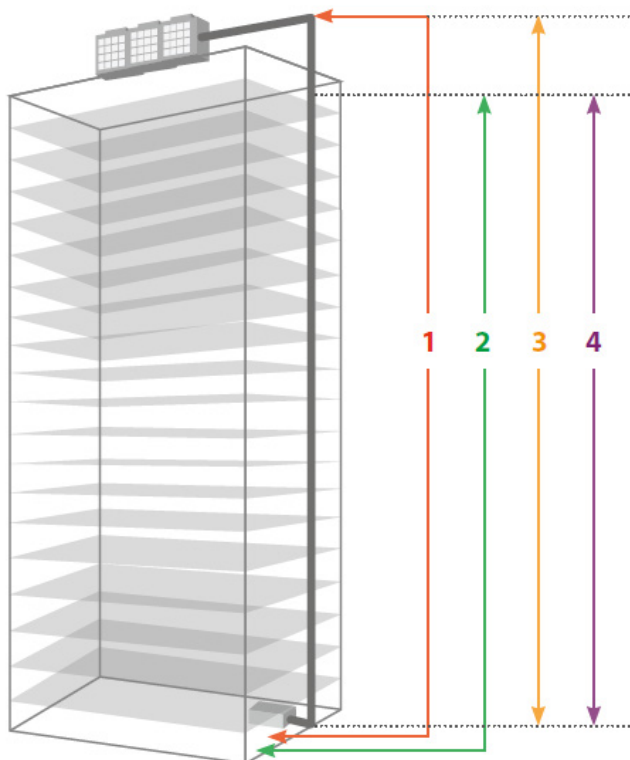


TOSHIBA

> FLEXIBLE DESIGN AND QUICK INSTALLATION

> Piping design flexibility

Toshiba's piping technology makes them one of the industry's leaders in system flexibility and ease of installation and with the e-series VRF system, the level of flexibility has increased further, giving more options to the contractor and installer alike.



For more details, please refer to installation manuals.

1 Total piping length

Applied with Toshiba's unique and greatly-improved technology, Toshiba's VRF can reach up to 1,200 metres maximum piping length.



Total piping length
1,200 m*

2 Farthest equivalent length

The maximum equivalent distance between the outdoor unit and the farthest indoor unit tops at 250 metres, a best-in-class for the industry.



Farthest equivalent length
250 m

3 Height between outdoor unit and indoor unit

Another industry best-in-class feature is the maximum vertical distance between the outdoor and indoor units, which can extend up to 110 metres. Toshiba's VRF enhanced piping capabilities result in more benefits for system design and installation flexibility, as well as lower installation costs.



110 m

4 Height difference FCU-FCU

Maximum vertical distance between indoor units, which reaches up to 40 metres, equal to an entire 11-storey building.

Height difference between
outdoor unit and indoor unit
40 m

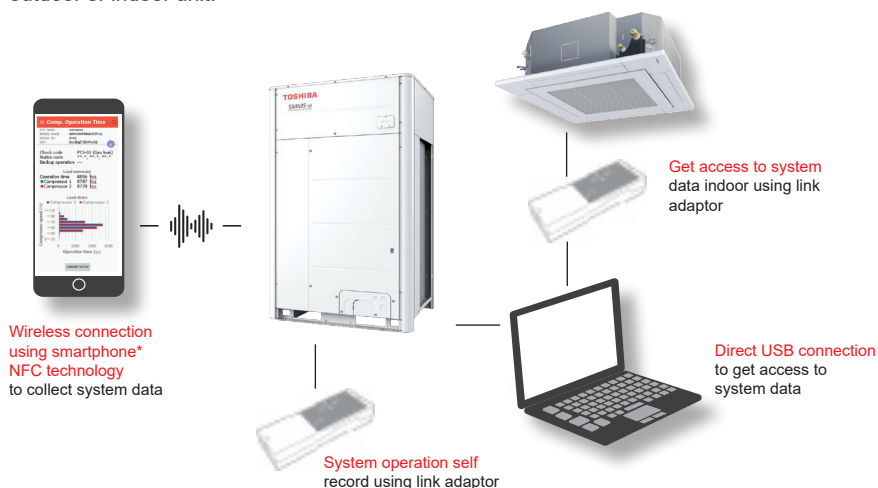
> Toshiba selection tool

Designed for both novice and expert users, Toshiba selection software creates simple, yet detailed VRF system schematics. It is highly versatile, allowing the level of detail to be tailored to suit customer requirements. Final detailed reports can be produced and sent to customers in PDF format or in more complex files, such as AutoCAD DXF, allowing simple integration into existing software packages.



> Easy commissioning and maintenance

Save time during commissioning and maintenance. Choose between the "Wave Tool Advance" using Smartphone NFC connection or the link adaptor connected to the outdoor or indoor unit.



* Please contact Toshiba for Android® phone compatibility list.



MiNi SMMS-e - VRF 2-Pipe Heat Pump Outdoor Unit/Single Fan VRF 2-Pipe Heat Pump Outdoor Unit

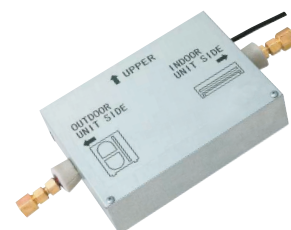
CODE		121	140	121	140	160	
Model Name Heat Pump		MCY-	MHP0406HT-E	MHP0506HT-E1	MHP0404HS-E	MHP0504HS-E	MHP0604HS-E
Capacity Range		hp	4	5	4	5	6
Maximum Number of Indoor Units		QTY	8	10	8	10	13
Cooling Capacity		kW	12.1	14.0	12.1	14.0	15.5
Heating Capacity		kW	12.5	16.0	12.5	16.0	18.0
Operating Range Cooling/Heating		°C	-5 to 46/-25 to 15	-5 to 46/-20 to 15	-5 to 46/-25 to 15	-5 to 46/-25 to 15	-5 to 46/-25 to 15
Cooling	Power Consumption	kW	3.24	4.34	2.83	3.50	4.29
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.73/8.08/320.2	3.23/7.77/307.8	4.28/9.42/373.8	4.00/9.23/366.2	3.61/9.68/384.2
Heating	Power Consumption	kW	2.83	3.86	2.59	3.75	4.31
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.42/3.83/150.2	4.00/3.86/152.2	4.83/4.17/163.8	4.27/4.24/166.6	4.18/4.37/171.8
Fan(s)	Standard Air Flow H	l/s	1117	1183	1572	1617	1681
	Standard Air Flow H	m³/h	4020	4260	5660	5820	6050
Sound	Pressure Level C/H	dB(A)	54/57	54/58	49/52	50/53	51/54
	Power Level C/H	dB(A)	71/74	71/75	66/69	68/70	68/71
Unit	Height x Width x Depth	mm	910 x 990 x 390	910 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390
	Weight	kg	100	100	127	127	127
	Refrigerant Base Charge	kg	3.3	3.3	6.4	6.4	6.4
Pipe Connections	Suction Gas Pipe Flare	inch	5/8	5/8	5/8	5/8	3/4
	Liquid Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	60	60	125	125	125
	Real Length	m	50	50	100	100	100
	Total Pipe Length (Liquid Line Real Length)	m	90	90	180	180	180
	Length To First Branch	m	30	30	65	65	65
	Real Length of Indoor Unit Connecting Piping	m	10	10	15	15	15
	Height Difference Outdoor Higher Than Indoor Units	m	15	15	30	30	30
	Height Difference Outdoor Lower Than Indoor Units	m	15	15	20	20	20
	Height Difference Between Indoor Units	m	10	10	15	15	15
Electrical	Electrical Characteristic Run Current Cooling/Heating	A	14.4/13.4	18.7/18.3	13.0/12.0	15.9/17.0	19.2/19.3
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220/240-1-50
	Suggested Fused Supply(s)	A	20	25	20	25	25
OUTDOOR RETAIL PRICE			£3.170	£3.191	£3.974	£4.454	£4.766

Accessories

RBM-BY55E	VRF 2-pipe Y Joint	MiNi SMMS Capacities below 6.4 hp	£68
RBM-HY1043E	VRF 2-pipe 4-way Header	MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY1083E	VRF 2-pipe 8-way Header	MiNi SMMS Capacities below 14.2 hp	£302
RBM-PMV0363E	VRF 2-pipe Valve Kit	MiNi SMMS Capacities 0.8 - 1.25 hp	£196
RBM-PMV0903E	VRF 2-pipe Valve Kit	MiNi SMMS Capacities 1.7 - 2.5 hp	£225

Pulse Modulating Valve Kit

	RBM-	PMV0363E	PMV0903E
Indoor Unit Capacity Rank		007 - 012	015 - 024
Height x Length x Depth	mm	161 x 336 x 58	161 x 336 x 58
Weight	kg	2.3	2.5
Standard 6 Core Connection Cable Max. Length	m	10	10
Conversion Cable Max. Length (All Indoors Except MMK-AP###H Type)	m	1	1
Power Supply From Local or Group Indoor Unit		12 V DC	12 V DC
Liquid Pipes	inch	1/4	1/4
Accessory Joint Liquid Reducer	inch	-	3/8 - 1/4
Real Length Min. Distance To Indoor	m	2	2
Real Length Max. Distance To Indoor	m	10	10
Max. Height Difference Between PMV Kits	m	15	15





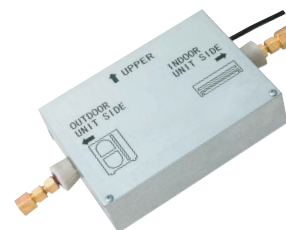
MiNi SMMS-e - VRF 2-Pipe Heat Pump Outdoor Unit (Continued)

CODE		120	140	160	220	280	
Model Name Heat Pump		MCY-	MHP0404HS8-E	MHP0504HS8-E	MHP0604HS8-E	MHP0806HS8-E	MHP1006HS8-E
Capacity Range		hp	4	5	6	8	10
Maximum Number of Indoor Units		QTY	8	10	13	12	16
Cooling Capacity		kW	12.1	14	15.5	22.4	28.0
Heating Capacity		kW	12.5	16	18	22.4	28.0
Operating Range Cooling/Heating		°C	-5 to 46/-20 to 15	-5 to 46/-20 to 15	-5 to 46/-20 to 15	-5 to 46/-25 to 15	-5 to 46/-25 to 15
Cooling	Power Consumption	kW	2.82	3.47	4.25	6.67	9.34
	EER/SEER/Energy Efficiency Class (or ηsc %)		4.29/9.47/375.8	4.03/9.29/167.0	3.65/9.74/172.2	3.36/8.09/320.6	3.00/7.40/293.0
Heating	Power Consumption	kW	2.57	3.72	4.27	5.20	7.00
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.86/4.19/164.6	4.30/4.25/167.0	4.22/4.38/172.2	4.31/4.50/177.0	4.00/4.38/172.2
Fan(s)	Standard Air Flow H	l/s	1572	1617	1681	2350	2450
	Standard Air Flow H	m³/h	5660	5820	6050	8460	8820
Sound	Pressure Level C/H	dB(A)	49/52	50/53	51/54	58/59	59/60
	Power Level C/H	dB(A)	66/67	68/69	68/70	75/75	77/77
Unit	Height x Width x Depth	mm	1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390	1740 x 990 x 390	1740 x 990 x 390
	Weight	kg	125	125	125	147	147
	Refrigerant Base Charge	kg	6.4	6.4	6.4	4.4	4.4
Pipe Connections	Suction Gas Pipe Flare	inch	5/8	5/8	3/4	3/4	3/4
	Liquid Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	125	125	125	130	130
	Real Length	m	100	100	100	100	100
	Total Pipe Length (Liquid Line Real Length)	m	180	180	180	250	250
	Length To First Branch	m	65	65	65	70	70
	Real Length of Indoor Unit Connecting Piping	m	15	15	15	15	15
	Height Difference Outdoor Higher Than Indoor Units	m	30	30	30	30	30
	Height Difference Outdoor Lower Than Indoor Units	m	20	20	20	30	30
	Height Difference Between Indoor Units	m	15	15	15	15	15
Electrical	Electrical Characteristic Run Current Cooling/Heating	A	4.50/4.20	5.40/5.80	6.70/6.60	11.1/8.7	15.3/11.4
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	10	16	16	20	25
OUTDOOR RETAIL PRICE			£4.057	£4.558	£4.801	£5.490	£5.689

Accessories

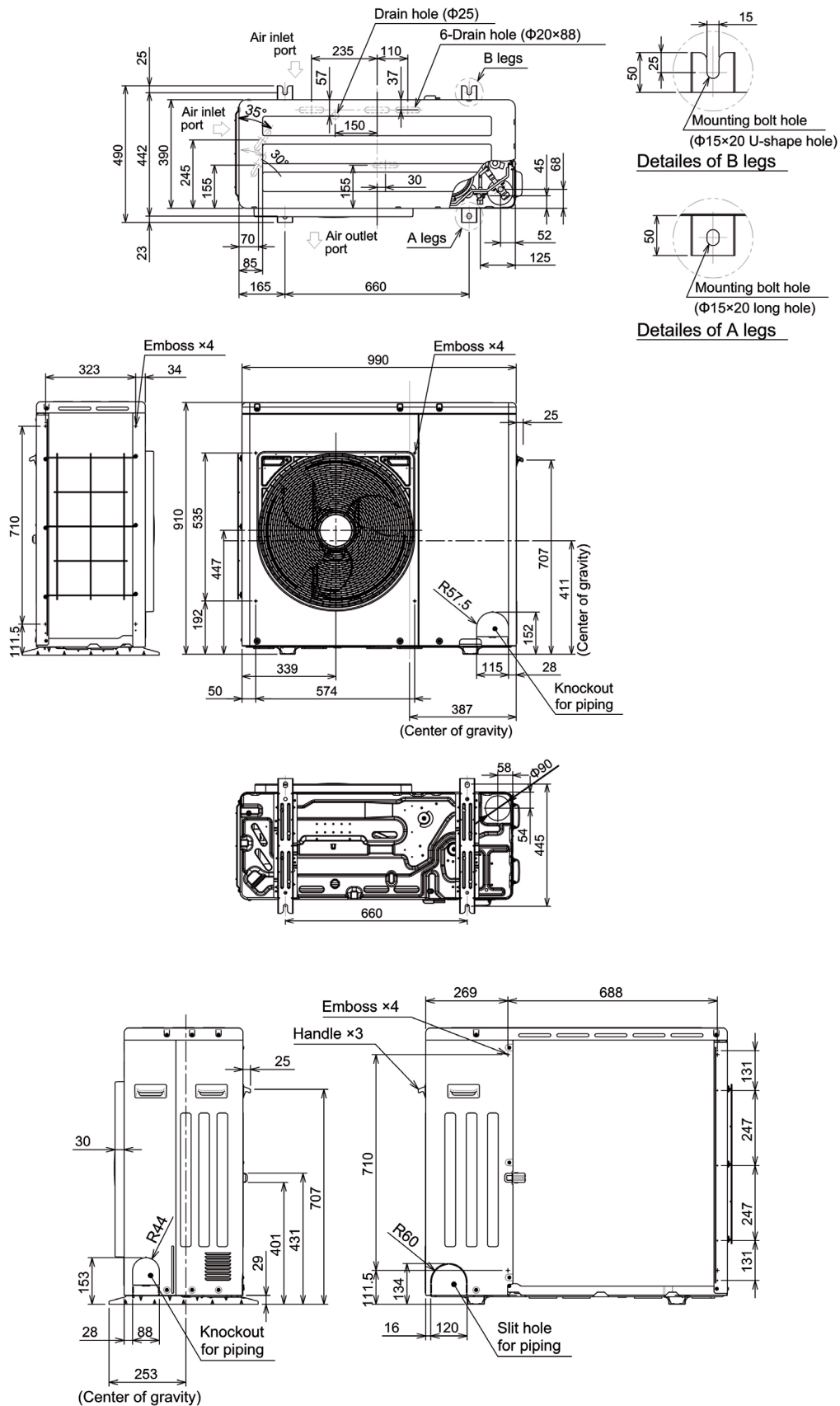
RBM-BY55E	VRF 2-pipe Y Joint	MiNi SMMS Capacities below 6.4 hp	£68
RBM-HY1043E	VRF 2-pipe 4-way Header	MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY1083E	VRF 2-pipe 8-way Header	MiNi SMMS Capacities below 14.2 hp	£302
RBM-PMV0363E	VRF 2-pipe Valve Kit	MiNi SMMS Capacities 0.8 - 1.25 hp	£196
RBM-PMV0903E	VRF 2-pipe Valve Kit	MiNi SMMS Capacities 1.7 - 2.5 hp	£225

Pulse Modulating Valve Kit	RBM-	PMV0363E	PMV0903E
Indoor Unit Capacity Rank		007 - 012	015 - 024
Height x Length x Depth	mm	161 x 336 x 58	161 x 336 x 58
Weight	kg	2.3	2.5
Standard 6 Core Connection Cable Max. Length	m	10	10
Conversion Cable Max. Length (All Indoors Except MMK-AP###H Type)	m	1	1
Power Supply From Local or Group Indoor Unit		12 V DC	12 V DC
Liquid Pipes	inch	1/4	1/4
Accessory Joint Liquid Reducer	inch	-	3/8 - 1/4
Real Length Min. Distance To Indoor	m	2	2
Real Length Max. Distance To Indoor	m	10	10
Max. Height Difference Between PMV Kits	m	15	15



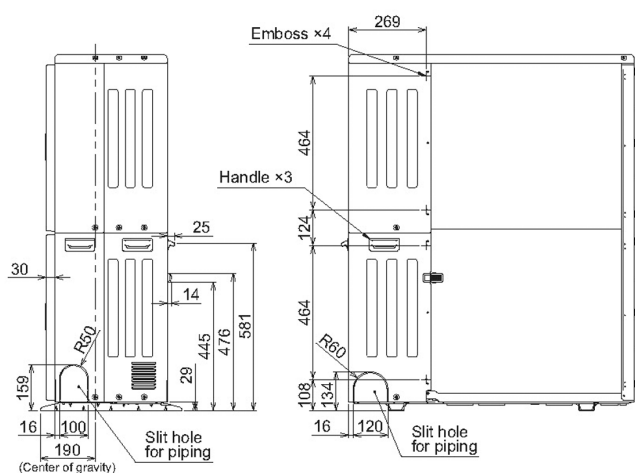
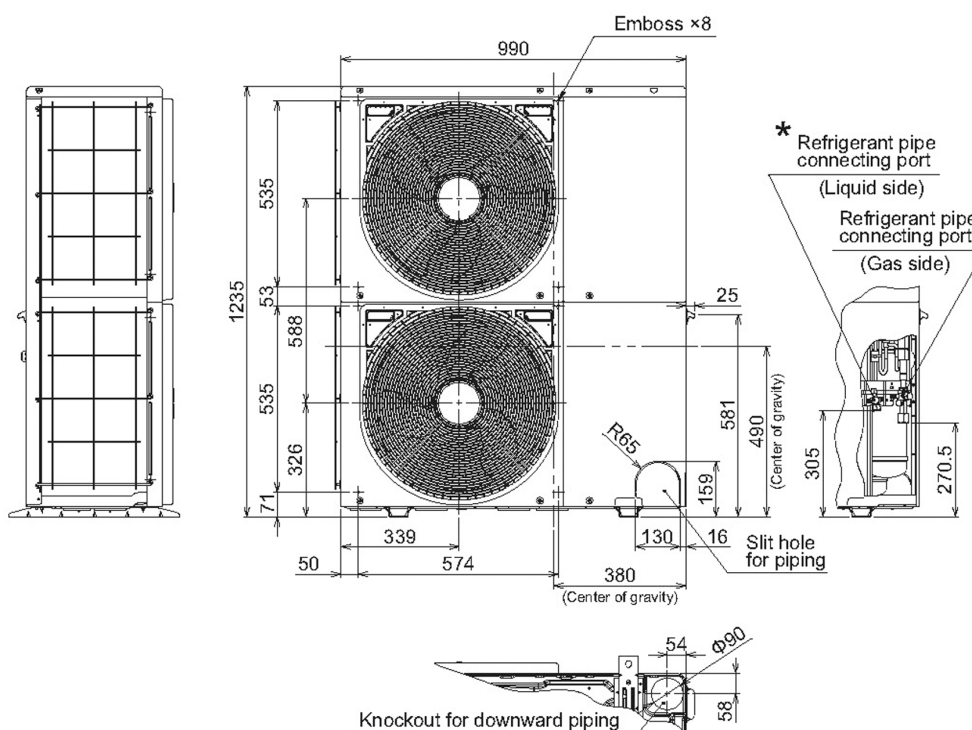
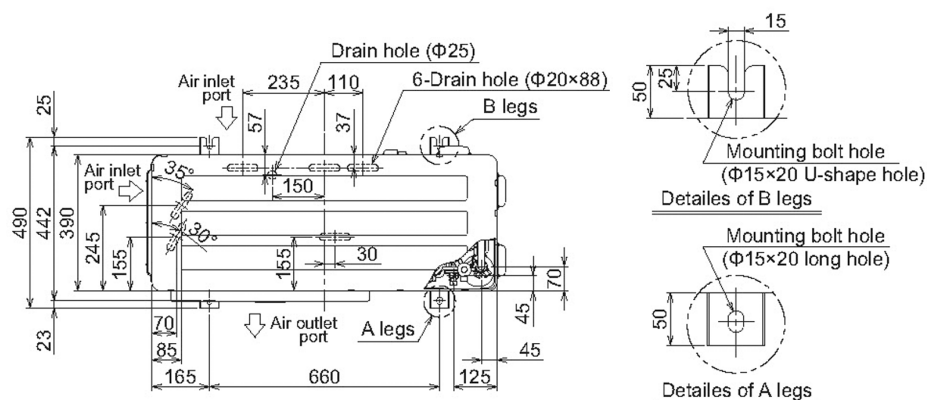


Dimensions - MCY-MHP0406HT-E, MCY-MHP0506T-E





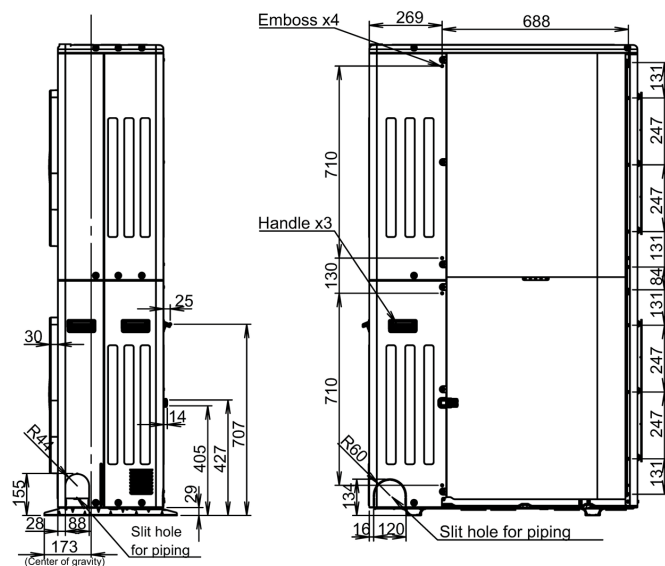
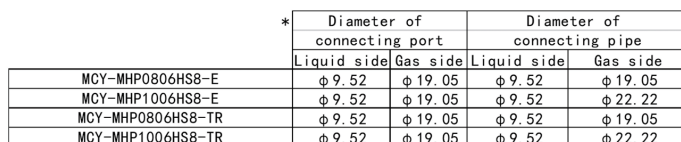
Dimensions - MCY-MHP0404HS(8)-E, MCY-MHP0504HS(8)-E, MCY-MHP0604HS(8)-E



	* Diameter of pipe connecting port		Diameter of connecting pipe	
	Liquid side	Gas side	Liquid side	Gas side
MCY-MHP0404HS-E MCY-MHP0404HSJ-E	φ 9.52	φ 15.88	φ 9.52	φ 15.88
MCY-MHP0504HS-E MCY-MHP0504HSJ-E	φ 9.52	φ 15.88	φ 9.52	φ 15.88
MCY-MHP0604HS-E MCY-MHP0604HSJ-E	φ 9.52	φ 19.05	φ 9.52	φ 19.05

(Unit:mm)

Mini SMMS-e



SMMS-u

SUPER MODULAR MULTI SYSTEM

The ultimate VRF system





SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit

CODE		225	280	335	400	450
Combination		MMY-				
Model Name Heat Pump		MMY-	MUP0801HT8P-E	MUP1001HT8P-E	MUP1201HT8P-E	MUP1401HT8P-E
Capacity Range		hp	8	10	12	14
Maximum Number of Indoor Units		QTY	18	22	27	31
Cooling Capacity		kW	22.4	28.0	33.5	40.0
Heating Capacity		kW	22.4	28.0	33.5	40.0
Operating Range Cooling/Heating		°C	-10.0 to 52.0/ -25.0 to 15.5	-10.0 to 52.0/ -25.0 to 15.5	-10.0 to 52.0/ -25.0 to 15.5	-10.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	5.64	8.36	10.34	14.55
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.97/7.44/294.6	3.35/7.73/306.2	3.24/7.32/289.8	2.75/7.05/279.0
Heating	Power Consumption	kW	5.28	7.20	7.77	10.00
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.24/4.50/177.0	3.89/4.78/188.2	4.31/4.75/187.0	4.00/4.60/181.0
Fan(s)	Standard Air Flow H	l/s	2750	2917	3250	3300
	Standard Air Flow H	m³/h	9900	10500	11700	11880
	External Static Pressure	Pa	80	80	80	80
Sound	Pressure Level C/H	dB(A)	53/56	55/58	58/62	58/62
	Power Level C/H	dB(A)	75/76	77/77	79/81	79/82
Unit(s)	Height x Width x Depth	mm	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780	1690 x 1290 x 780
	Weight	kg	228	228	228	312
	Refrigerant Base Charge	kg	6	6	6	9
Pipe Connections	Suction Gas Pipe Brazing	inch	3/4	7/8	1-1/8	1-1/8
	Liquid Pipe Flare	inch	1/2	1/2	1/2	5/8
Maximum	Equivalent Length	m	210	210	210	210
	Real Length	m	170	170	170	170
	Total Pipe Length (Liquid Line Real Length)	m	500	500	500	500
	Length To First Branch	m	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110*)	70 (110*)	70 (110*)	70 (110*)
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110*)	40 (110*)	40 (110*)	40 (110*)
	Height Difference Between Indoor Units	m	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	9.15/8.56	13.40/11.50	16.00/12.10	22.60/15.50
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	20	25	32	40

OUTDOOR RETAIL PRICE	£6,864	£7,457	£8,628	£10,345	£11,258
-----------------------------	---------------	---------------	---------------	----------------	----------------

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 200% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		500	560	615	670
Combination		MMY-			
Model Name Heat Pump		MMY-	MUP1801HT8P-E	MUP2001HT8P-E	MUP2201HT8P-E
Capacity Range		hp	18	20	22
Maximum Number of Indoor Units		QTY	40	45	49
Cooling Capacity		kW	50.4	56.0	61.5
Heating Capacity		kW	50.4	56.0	61.5
Operating Range Cooling/Heating		°C	-10.0 to 52.0/ -25.0 to 15.5	-10.0 to 52.0/ -25.0 to 15.5	-10.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	15.90	18.01	20.43
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.17/7.68/304.2	3.11/7.62/301.8	3.01/7.23/286.2
Heating	Power Consumption	kW	12.54	14.93	16.18
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.02/4.75/187.0	3.75/4.43/174.2	3.80/4.44/174.6
Fan(s)	Standard Air Flow H	l/s	4667	4417	4583
	Standard Air Flow H	m³/h	16800	15900	16500
	External Static Pressure	Pa	80	80	80
Sound	Pressure Level C/H	dB(A)	61/67	63/67	63/67
	Power Level C/H	dB(A)	84/89	86/90	86/90
Unit(s)	Height x Width x Depth	mm	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780
	Weight	kg	312	334	356
	Refrigerant Base Charge	kg	9	9	9
Pipe Connections	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-3/8
	Liquid Pipe Flare	inch	5/8	5/8	3/4
Maximum	Equivalent Length	m	210	210	210
	Real Length	m	170	170	170
	Total Pipe Length (Liquid Line Real Length)	m	500	500	500
	Length To First Branch	m	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30
	Equivalent Length Between Branches	m	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110*)	70 (110*)	70 (110*)
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110*)	40 (110*)	40 (110*)
	Height Difference Between Indoor Units	m	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	24.40/19.30	27.70/22.90	31.40/24.80
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	40	40	50

OUTDOOR RETAIL PRICE	£12,212	£13,054	£13,957	£15,336
-----------------------------	----------------	----------------	----------------	----------------

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 200% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		735		800		835		895		960	
Combination		MMY-	UP2611HT8P-E	UP2811HT8P-E	UP3011HT8P-E	UP3211HT8P-E	UP3411HT8P-E				
Model Name Heat Pump		MMY-	MUP1401HT8P-E MUP1201HT8P-E	MUP1401HT8P-E MUP1401HT8P-E	MUP1801HT8P-E MUP1201HT8P-E	MUP2001HT8P-E MUP1201HT8P-E	MUP2001HT8P-E MUP1401HT8P-E				
Capacity Range		hp	26	28	30	32	34				
Maximum Number of Indoor Units		QTY	58	63	64	65	66				
Cooling Capacity		kW	73.5	80.0	83.9	89.5	96.0				
Heating Capacity		kW	73.5	80.0	83.9	89.5	96.0				
Operating Range Cooling/Heating		°C	-5.0 to 52.0/-25.0 to 15.5	-5.0 to 52.0/-25.0 to 15.5	-5.0 to 52.0/-25.0 to 15.5	-5.0 to 52.0/-25.0 to 15.5	-5.0 to 52.0/-25.0 to 15.5				
Cooling	Power Consumption	kW	24.89	29.10	26.24	28.35	32.56				
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.95/7.17/283.8	2.75/7.05/279.0	3.20/7.52/297.8	3.16/7.50/297.0	2.95/7.38/292.2				
Heating	Power Consumption	kW	17.77	20.00	20.31	22.70	24.93				
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.14/4.67/183.8	4.00/4.60/181.0	4.13/4.75/187.0	3.94/4.55/179.0	3.85/4.50/177.0				
Fan(s)	Standard Air Flow H	l/s	3300 + 3250	3300 + 3300	4667 + 3250	4417 + 3250	4417 + 3300				
	Standard Air Flow H	m³/h	11880 + 11700	11880 + 11880	16800 + 11700	15900 + 11700	15900 + 11880				
Sound	External Static Pressure	Pa	80	80	80	80	80				
	Pressure Level C/H	dB(A)	61.5/65.5	61.5/65.5	63/68.5	64.5/68.5	64.5/68.5				
Unit(s)	Power Level C/H	dB(A)	82.5/85	82.5/85.5	85.5/90	87/91	87/91				
	Height x Width x Depth	mm	1690 x 2000 x 780	1690 x 2000 x 780	1690 x 2300 x 780	1690 x 2300 x 780	1690 x 2300 x 780				
Pipe Connections	Weight	kg	228 + 228	228 + 228	312 + 228	334 + 228	334 + 228				
	Refrigerant Base Charge	kg	6 + 6	6 + 6	9 + 6	9 + 6	9 + 6				
Maximum	Suction Gas Pipe Brazing	inch	1-3/8	1-3/8	1-3/8	1-3/8	1-3/8				
	Liquid Pipe Flare	inch	3/4	3/4	3/4	3/4	3/4				
Maximum	Equivalent Length	m	220	220	220	220	220				
	Real Length	m	180	180	180	180	180				
	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200	1200	1200				
	Length To First Branch	m	100	100	100	100	100				
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10				
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30				
	Equivalent Length Between Branches	m	50	50	50	50	50				
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110°)	70 (110°)	70 (110°)	70 (110°)	70 (110°)				
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110°)	40 (110°)	40 (110°)	40 (110°)	40 (110°)				
	Height Difference Between Indoor Units	m	40	40	40	40	40				
	Height Difference Between Outdoor Units	m	5	5	5	5	5				
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456				
	Electrical Characteristic Run Current Cooling/Heating	A	38.60/27.60	45.20/31.00	40.40/31.40	43.70/35.00	50.30/38.40				
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start				
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50				
	Suggested Fused Supply(s)	A	40 + 32	40 + 40	40 + 32	40 + 32	40 + 40				
OUTDOOR RETAIL PRICE			£18.973	£20.690	£20.840	£21.682	£23.399				

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		1005	1070	1120	1170	1230	
Combination		MMY-	UP3611HT8P-E	UP3811HT8P-E	UP4011HT8P-E	UP4211HT8P-E	UP4411HT8P-E
Model Name Heat Pump		MMY-	MUP2401HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP1401HT8P-E	MUP2001HT8P-E MUP2001HT8P-E	MUP2401HT8P-E MUP1801HT8P-E	MUP2401HT8P-E MUP2001HT8P-E
Capacity Range		hp	36	38	40	42	44
Maximum Number of Indoor Units		QTY	67	68	69	70	71
Cooling Capacity		kW	100.5	107.0	112.0	117.4	123.0
Heating Capacity		kW	100.5	107.0	112.0	117.4	123.0
Operating Range Cooling/Heating		°C	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	34.53	38.74	36.02	40.09	42.20
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.91/7.01/277.4	2.76/6.93/274.2	3.11/7.62/301.8	2.93/7.22/285.8	2.91/7.21/285.4
Heating	Power Consumption	kW	26.75	28.98	29.86	31.52	33.91
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.76/4.38/172.2	3.69/4.33/170.2	3.75/4.43/174.2	3.72/4.43/174.2	3.63/4.30/169.0
Fan(s)	Standard Air Flow H	l/s	4583 + 3250	4583 + 3300	4417 + 4417	4583 + 4667	4583 + 4417
	Standard Air Flow H	m³/h	16500 + 11700	16500 + 11880	15900 + 15900	16500 + 16800	16500 + 15900
	External Static Pressure	Pa	80	80	80	80	80
Sound	Pressure Level C/H	dB(A)	64.5/68.5	64.5/68.5	66.5/70.5	65.5/70.5	66.5/70.5
	Power Level C/H	dB(A)	87/91	87/91	89.5/93.5	88.5/93	89.5/93.5
Unit(s)	Height x Width x Depth	mm	1690 x 2300 x 780	1690 x 2300 x 780	1690 x 2600 x 780	1690 x 2600 x 780	1690 x 2600 x 780
	Weight	kg	356 + 228	356 + 228	334 + 334	356 + 312	356 + 334
	Refrigerant Base Charge	kg	9 + 6	9 + 6	9 + 9	9 + 9	9 + 9
Pipe Connections	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8	7/8
Maximum	Equivalent Length	m	220	220	220	220	220
	Real Length	m	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200	1200	1200
	Length To First Branch	m	100	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110*)	70 (110*)	70 (110*)	70 (110*)	70 (110*)
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110*)	40 (110*)	40 (110*)	40 (110*)	40 (110*)
	Height Difference Between Indoor Units	m	40	40	40	40	40
Electrical	Height Difference Between Outdoor Units	m	5	5	5	5	5
	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	53.10/41.20	59.70/44.60	55.40/45.80	61.50/48.40	64.80/52.00
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	63 + 32	63 + 40	40 + 40	63 + 40	63 + 40
OUTDOOR RETAIL PRICE			£23.964	£25.681	£26.108	£27.548	£28.390

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE			1285	1340	1405	1470	1520
Combination Model Name Heat Pump		MMY-	UP4611HT8P-E	UP4811HT8P-E	UP5011HT8P-E	UP5211HT8P-E	UP5411HT8P-E
		MMY-	MUP2401HT8P-E MUP2201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E	MUP2401HT8P-E MUP1401HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP1401HT8P-E MUP1401HT8P-E	MUP2001HT8P-E MUP2001HT8P-E MUP1401HT8P-E
Capacity Range		hp	46	48	50	52	54
Maximum Number of Indoor Units		QTY	72	73	74	75	76
Cooling Capacity		kW	128.5	134.0	140.5	147.0	152.0
Heating Capacity		kW	128.5	134.0	140.5	147.0	152.0
Operating Range Cooling/Heating		°C	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	44.62	48.38	49.08	53.29	50.57
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.88/7.04/278.6	2.77/6.87/271.8	2.86/7.02/277.8	2.76/6.96/275.4	3.01/7.49/296.6
Heating	Power Consumption	kW	35.16	37.96	36.75	38.98	39.86
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.65/4.31/169.4	3.53/4.17/163.8	3.82/4.44/174.6	3.77/4.41/173.4	3.81/4.47/175.8
Fan(s)	Standard Air Flow H	l/s	4583 + 4583	4583 + 4583	4583 + 3300 + 3250	4583 + 3300 + 3300	4417 + 4417 + 3300
	Standard Air Flow H	m³/h	16500 + 16500	16500 + 16500	16500 + 11880 + 11700	16500 + 11880 + 11880	15900 + 15900 + 11880
Sound	External Static Pressure	Pa	80	80	80	80	80
	Pressure Level C/H	dB(A)	66.5/70.5	66.5/70.5	65.5/69.5	65.5/69.5	67/71
	Power Level C/H	dB(A)	89.5/93.5	89.5/93.5	87.5/91.5	87.5/91.5	89.5/93.5
Unit(s)	Height x Width x Depth	mm	1690 x 2600 x 780	1690 x 2600 x 780	1690 x 3310 x 780	1690 x 3310 x 780	1690 x 3610 x 780
	Weight	kg	356 + 356	356 + 356	356 + 228 + 228	356 + 228 + 228	334 + 334 + 228
	Refrigerant Base Charge	kg	9 + 9	9 + 9	9 + 6 + 6	9 + 6 + 6	9 + 9 + 6
Pipe Connections	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8	7/8
Maximum	Equivalent Length	m	220	220	250	250	200
	Real Length	m	180	180	210	210	160
	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200	1200	1200
	Length To First Branch	m	100	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110*)	70 (110*)	70 (110*)	70 (110*)	70 (110*)
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110*)	40 (110*)	40 (110*)	40 (110*)	40 (110*)
	Height Difference Between Indoor Units	m	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	68.50/53.90	74.20/58.20	75.70/56.70	82.30/60.10	78.00/61.30
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	63 + 50	63 + 63	63 + 40 + 32	63 + 40 + 40	40 + 40 + 40
OUTDOOR RETAIL PRICE			£29,293	£30,672	£34,309	£36,026	£36,453

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		1565	1630	1675	1740	1790	
Combination		MMY-	UP5611HT8P-E	UP5811HT8P-E	UP6011HT8P-E	UP6211HT8P-E	UP6411HT8P-E
Model Name Heat Pump		MMY-	MUP2401HT8P-E MUP2001HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP2001HT8P-E MUP1401HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP1401HT8P-E	MUP2401HT8P-E MUP2001HT8P-E MUP2001HT8P-E
Capacity Range		hp	56	58	60	62	64
Maximum Number of Indoor Units		QTY	77	78	79	80	81
Cooling Capacity		kW	156.5	163.0	167.5	174.0	179.0
Heating Capacity		kW	156.5	163.0	167.5	174.0	179.0
Operating Range Cooling/Heating		°C	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	52.54	56.75	58.72	62.93	60.21
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.98/7.23/286.2	2.87/7.19/284.6	2.85/6.95/275.0	2.76/6.92/273.8	2.97/7.34/290.6
Heating	Power Consumption	kW	41.68	43.91	45.73	47.96	48.84
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.75/4.41/173.4	3.71/4.37/171.8	3.66/4.30/169.0	3.63/4.27/167.8	3.67/4.34/170.6
Fan(s)	Standard Air Flow H	l/s	4583 + 4417 + 3250	4583 + 4417 + 3300	4583 + 4583 + 3250	4583 + 4583 + 3300	4583 + 4417 + 4417
	Standard Air Flow H	m³/h	16500 + 15900 + 11700	16500 + 15900 + 11880	16500 + 16500 + 11700	16500 + 16500 + 11880	16500 + 15900 + 15900
Sound	External Static Pressure	Pa	80	80	80	80	80
	Pressure Level C/H	dB(A)	67/71	67/71	67/71	67/71	68/72
Unit(s)	Power Level C/H	dB(A)	89.5/93.5	89.5/93.5	89.5/93.5	89.5/93.5	91/95
	Height x Width x Depth	mm	1690 x 3610 x 780	1690 x 3610 x 780	1690 x 3610 x 780	1690 x 3610 x 780	1690 x 3910 x 780
Pipe Connections	Weight	kg	356 + 334 + 228	356 + 334 + 228	356 + 356 + 228	356 + 356 + 228	356 + 334 + 334
	Refrigerant Base Charge	kg	9 + 9 + 6	9 + 9 + 6	9 + 9 + 6	9 + 9 + 6	9 + 9 + 9
Maximum	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8	7/8
Electrical	Equivalent Length	m	200	200	200	200	200
	Real Length	m	160	160	160	160	160
	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200	1200	1200
	Length To First Branch	m	100	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110*)	70 (110*)	70 (110*)	70 (110*)	70 (110*)
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110*)	40 (110*)	40 (110*)	40 (110*)	40 (110*)
	Height Difference Between Indoor Units	m	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	80.80/64.10	87.40/67.50	90.20/70.30	96.80/73.70	92.50/74.90
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	63 + 40 + 32	63 + 40 + 40	63 + 63 + 32	63 + 63 + 40	63 + 40 + 40
OUTDOOR RETAIL PRICE			£37.018	£38.735	£39.300	£41.017	£41.444

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		1845	1900	1955	2010	
Combination		MMY-	UP6611HT8P-E	UP6811HT8P-E	UP7011HT8P-E	UP7211HT8P-E
Model Name Heat Pump		MMY-	MUP2401HT8P-E MUP2201HT8P-E MUP2001HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E
Capacity Range		hp	66	68	70	72
Maximum Number of Indoor Units		QTY	82	83	84	85
Cooling Capacity		kW	184.5	190.0	195.5	201.0
Heating Capacity		kW	184.5	190.0	195.5	201.0
Operating Range Cooling/Heating		°C	-5.0 to 52.0/-25.0 to 15.5	-5.0 to 52.0/-25.0 to 15.5	-5.0 to 52.0/-25.0 to 15.5	-5.0 to 52.0/-25.0 to 15.5
Cooling	Power Consumption	kW	62.63	66.39	68.81	72.57
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.95/7.21/285.4	2.86/7.09/280.6	2.84/6.98/276.2	2.77/6.87/271.8
Heating	Power Consumption	kW	50.09	52.89	54.14	56.94
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.68/4.35/171.0	3.59/4.26/167.4	3.61/4.26/167.4	3.53/4.17/163.8
Fan(s)	Standard Air Flow H	l/s	4583 + 4583 + 4417	4583 + 4583 + 4417	4583 + 4583 + 4583	4583 + 4583 + 4583
	Standard Air Flow H	m³/h	16500 + 16500 + 15900	16500 + 16500 + 15900	16500 + 16500 + 16500	16500 + 16500 + 16500
Sound	External Static Pressure	Pa	80	80	80	80
	Pressure Level C/H	dB(A)	68/72	68/72	68/72	68/72
Unit(s)	Power Level C/H	dB(A)	91/95	91/95	91/95	91/95
	Height x Width x Depth	mm	1690 x 3910 x 780	1690 x 3910 x 780	1690 x 3910 x 780	1690 x 3910 x 780
Pipe Connections	Weight	kg	356 + 356 + 334	356 + 356 + 334	356 + 356 + 356	356 + 356 + 356
	Refrigerant Base Charge	kg	9 + 9 + 9	9 + 9 + 9	9 + 9 + 9	9 + 9 + 9
Maximum	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8
Electrical	Equivalent Length	m	200	200	200	200
	Real Length	m	160	160	160	160
	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200	1200
	Length To First Branch	m	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110*)	70 (110*)	70 (110*)	70 (110*)
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110*)	40 (110*)	40 (110*)	40 (110*)
	Height Difference Between Indoor Units	m	40	40	40	40
Electrical	Height Difference Between Outdoor Units	m	5	5	5	5
	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	96.20/76.80	101.90/81.10	105.60/83.00	111.30/87.30
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
Power Supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	63 + 50 + 40	63 + 63 + 40	63 + 63 + 50	63 + 63 + 63
OUTDOOR RETAIL PRICE			£42.347	£43.726	£44.629	£46.008

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		2075	2140	2190	2235	2300
Combination		MMY-	UP7411HT8P-E	UP7611HT8P-E	UP7811HT8P-E	UP8011HT8P-E
Model Name Heat Pump		MMY-	MUP2401HT8P-E MUP2401HT8P-E MUP1401HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP1401HT8P-E MUP1401HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E MUP1401HT8P-E
Capacity Range		hp	74	76	78	80
Maximum Number of Indoor Units		QTY	86	87	88	90
Cooling Capacity		kW	207.5	214.0	219.0	223.5
Heating Capacity		kW	207.5	214.0	219.0	223.5
Operating Range Cooling/Heating		°C	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	73.27	77.48	74.76	76.73
	EER/SEER/Energy Efficiency Class (or η _{sc} %)		2.83/6.97/275.8	2.76/6.93/274.2	2.93/7.30/289.0	2.91/7.14/282.6
Heating	Power Consumption	kW	55.73	57.96	58.84	60.66
	COP/SCOP/Energy Efficiency Class (or η _{sc} (A) %)		3.72/4.36/171.4	3.69/4.33/170.2	3.72/4.39/172.6	3.68/4.34/170.6
Fan(s)	Standard Air Flow H	l/s	4583 + 4583 + 3300 + 3250	4583 + 4583 + 3300 + 3300	4583 + 4417 + 4417 + 3300	4583 + 4583 + 4417 + 3250
	Standard Air Flow H	m³/h	16500 + 16500 + 11880 + 11700	16500 + 16500 + 11880 + 11880	16500 + 15900 + 15900 + 11880	16500 + 16500 + 15900 + 11700
Sound	External Static Pressure	Pa	80	80	80	80
	Pressure Level C/H	dB(A)	67.5/71.5	67.5/71.5	68.5/72.5	68.5/72.5
Unit(s)	Power Level C/H	dB(A)	90/94	90/94	91.5/95	91.5/95
	Height x Width x Depth	mm	1690 x 4620 x 780	1690 x 4620 x 780	1690 x 4920 x 780	1690 x 4920 x 780
Pipe Connections	Weight	kg	356 + 356 + 228 + 228	356 + 356 + 228 + 228	356 + 334 + 334 + 228	356 + 356 + 334 + 228
	Refrigerant Base Charge	kg	9 + 9 + 6 + 6	9 + 9 + 6 + 6	9 + 9 + 9 + 6	9 + 9 + 9 + 6
Maximum	Suction Gas Pipe Brazing	inch	1-5/8	2-1/8	2-1/8	2-1/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8
Equivalent Length	Equivalent Length	m	200	200	200	200
	Real Length	m	160	160	160	160
Length To First Branch	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200	1200
	Length To First Branch	m	100	100	100	100
Equivalent Length Of Outdoor Unit Connecting Pipe	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
Equivalent Length Between Branches	Equivalent Length Between Branches	m	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110°)	70 (110°)	70 (110°)	70 (110°)
Height Difference Outdoor Lower Than Indoor Units	Height Difference Outdoor Lower Than Indoor Units	m	40 (110°)	40 (110°)	40 (110°)	40 (110°)
	Height Difference Between Indoor Units	m	40	40	40	40
Height Difference Between Outdoor Units	Height Difference Between Outdoor Units	m	5	5	5	5
	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
Electrical	Electrical Characteristic Run Current Cooling/Heating	A	112.80/85.80	119.40/89.20	115.10/90.40	117.90/93.20
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
Power Supply	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	63 + 63 + 40 + 32	63 + 63 + 40 + 40	63 + 40 + 40 + 40	63 + 63 + 40 + 32

OUTDOOR RETAIL PRICE	£49,645	£51,362	£51,789	£52,354	£54,071
-----------------------------	----------------	----------------	----------------	----------------	----------------

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE			2345	2410	2460	2515	2570	
Combination Model Name Heat Pump		MMY-	UP8411HT8P-E	UP8611HT8P-E	UP8811HT8P-E	UP9011HT8P-E	UP9211HT8P-E	
		MMY-	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP1401HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E MUP2001HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2201HT8P-E MUP2001HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E	
		Capacity Range	hp	84	86	88	90	92
		Maximum Number of Indoor Units	QTY	94	96	98	100	102
Cooling Capacity		kW	234.5	241.0	246.0	251.5	257.0	
Heating Capacity		kW	234.5	241.0	246.0	251.5	257.0	
Operating Range Cooling/Heating		°C	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	
Cooling	Power Consumption	kW	82.91	87.12	84.40	86.82	90.58	
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.83/6.95/275.0	2.77/6.91/273.4	2.91/7.21/285.4	2.90/7.12/281.8	2.84/7.03/278.2	
Heating	Power Consumption	kW	64.71	66.94	67.82	69.07	71.87	
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.62/4.26/167.4	3.60/4.25/167.0	3.63/4.30/169.0	3.64/4.30/169.0	3.58/4.24/166.6	
Fan(s)	Standard Air Flow H	l/s	4583 + 4583 + 4583 + 3250	4583 + 4583 + 4583 + 3300	4583 + 4583 + 4417 + 4417	4583 + 4583 + 4583 + 4417	4583 + 4583 + 4583 + 4417	
	Standard Air Flow H	m³/h	16500 + 16500 + 16500 + 11700	16500 + 16500 + 16500 + 11880	16500 + 16500 + 15900 + 15900	16500 + 16500 + 16500 + 15900	16500 + 16500 + 16500 + 15900	
	External Static Pressure	Pa	80	80	80	80	80	
Sound	Pressure Level C/H	dB(A)	68.5/72.5	68.5/72.5	69.5/73.5	69.5/73.5	69.5/73.5	
	Power Level C/H	dB(A)	91.5/95	91.5/95	92.5/96.5	92.5/96.5	92.5/96.5	
Unit(s)	Height x Width x Depth	mm	1690 x 4920 x 780	1690 x 4920 x 780	1690 x 5220 x 780	1690 x 5220 x 780	1690 x 5220 x 780	
	Weight	kg	356 + 356 + 356 + 228	356 + 356 + 356 + 228	356 + 356 + 334 + 334	356 + 356 + 356 + 334	356 + 356 + 356 + 334	
	Refrigerant Base Charge	kg	9 + 9 + 9 + 6	9 + 9 + 9 + 6	9 + 9 + 9 + 9	9 + 9 + 9 + 9	9 + 9 + 9 + 9	
Pipe Connections	Suction Gas Pipe Brazing	inch	2-1/8	2-1/8	2-1/8	2-1/8	2-1/8	
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8	7/8	
Maximum	Equivalent Length	m	200	200	200	200	200	
	Real Length	m	160	160	160	160	160	
	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200	1200	1200	
	Length To First Branch	m	100	100	100	100	100	
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10	
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30	
	Equivalent Length Between Branches	m	50	50	50	50	50	
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110")	70 (110")	70 (110")	70 (110")	70 (110")	
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110")	40 (110")	40 (110")	40 (110")	40 (110")	
	Height Difference Between Indoor Units	m	40	40	40	40	40	
	Height Difference Between Outdoor Units	m	5	5	5	5	5	
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456	
	Electrical Characteristic Run Current Cooling/Heating	A	127.30/99.40	133.90/102.80	129.60/104.00	133.30/105.90	139.00/110.20	
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start	
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	
	Suggested Fused Supply(s)	A	63 + 63 + 63 + 32	63 + 63 + 63 + 40	63 + 63 + 40 + 40	63 + 63 + 50 + 40	63 + 63 + 63 + 40	
OUTDOOR RETAIL PRICE			£54.636	£56.353	£56.780	£57.683	£59.062	

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		2625	2680	2745	2810	2860
Combination		MMY-	UP9411HT8P-E	UP9611HT8P-E	UP9811HT8P-E	UP10011HT8P-E
Model Name Heat Pump		MMY-	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP1401HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E MUP2001HT8P-E MUP1401HT8P-E
Capacity Range		hp	94	96	98	100
Maximum Number of Indoor Units		QTY	104	106	108	110
Cooling Capacity		kW	262.5	268.0	274.5	281.0
Heating Capacity		kW	262.5	268.0	274.5	281.0
Operating Range Cooling/Heating		°C	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	93.00	96.76	97.46	101.67
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.82/6.95/275.0	2.77/6.87/271.8	2.82/6.95/275.0	2.76/6.94/274.6
Heating	Power Consumption	kW	73.12	75.92	74.71	76.94
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.59/4.24/166.6	3.53/4.17/163.8	3.67/4.31/169.4	3.65/4.30/169.0
Fan(s)	Standard Air Flow H	l/s	4583 + 4583 + 4583 + 4583	4583 + 4583 + 4583 + 4583	4583 + 4583 + 4583 + 3300 + 3250	4583 + 4583 + 4417 + 4417 + 3300
	Standard Air Flow H	m³/h	16500 + 16500 + 16500 + 16500	16500 + 16500 + 16500 + 16500	16500 + 16500 + 16500 + 11880 + 11700	16500 + 16500 + 15900 + 15900 + 11880
Sound	External Static Pressure	Pa	80	80	80	80
	Pressure Level C/H	dB(A)	69.5/73.5	69.5/73.5	69/73	69.5/73.5
Unit(s)	Power Level C/H	dB(A)	92.5/96.5	92.5/96.5	91.5/95.5	92.5/96.5
	Height x Width x Depth	mm	1690 x 5220 x 780	1690 x 5220 x 780	1690 x 5930 x 780	1690 x 6230 x 780
Weight		kg	356 + 356 + 356 + 356	356 + 356 + 356 + 356	356 + 356 + 356 + 228 + 228	356 + 356 + 334 + 334 + 228
	Refrigerant Base Charge	kg	9 + 9 + 9 + 9	9 + 9 + 9 + 9	9 + 9 + 9 + 6 + 6	9 + 9 + 9 + 6 + 6
Pipe Connections	Suction Gas Pipe Brazing	inch	2-1/8	2-1/8	2-1/8	2-1/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8
Maximum	Equivalent Length	m	200	200	200	200
	Real Length	m	160	160	160	160
	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200	1200
	Length To First Branch	m	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110°)	70 (110°)	70 (110°)	70 (110°)
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110°)	40 (110°)	40 (110°)	40 (110°)
	Height Difference Between Indoor Units	m	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	142.70/112.10	148.40/116.40	149.90/114.90	156.50/118.30
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	63 + 63 + 63 + 50	63 + 63 + 63 + 63	63 + 63 + 63 + 40 + 32	63 + 63 + 63 + 40 + 40
OUTDOOR RETAIL PRICE			£59,965	£61,344	£64,981	£66,698
						£67,125

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		2905	2970	3015	3080	3130
Combination Model Name Heat Pump		MMY- MMY- MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E MUP1201HT8P-E	UP10611HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E MUP1401HT8P-E	UP10811HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP1201HT8P-E	UP11011HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP1401HT8P-E	UP11211HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2001HT8P-E MUP2001HT8P-E
Capacity Range		hp 104	106	108	110	112
Maximum Number of Indoor Units		QTY 114	116	118	120	122
Cooling Capacity		kW 290.5	297.0	301.5	308.0	313.0
Heating Capacity		kW 290.5	297.0	301.5	308.0	313.0
Operating Range Cooling/Heating		°C -5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW 100.92	105.13	107.10	111.31	108.59
	EER/SEER/Energy Efficiency Class (or ηsc %)	2.88/7.08/280.2	2.83/7.04/278.6	2.82/6.93/274.2	2.77/6.90/273.0	2.88/7.13/282.2
Heating	Power Consumption	kW 79.64	81.87	83.69	85.92	86.80
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)	3.65/4.30/169.0	3.63/4.29/168.6	3.60/4.24/166.6	3.58/4.23/166.2	3.61/4.28/168.2
Fan(s)	Standard Air Flow H	l/s 4583 + 4583 + 4583 + 4417 + 3250	4583 + 4583 + 4583 + 4417 + 3300	4583 + 4583 + 4583 + 4583 + 3250	4583 + 4583 + 4583 + 4583 + 3300	4583 + 4583 + 4583 + 4417 + 4417
	Standard Air Flow H	m³/h 16500 + 16500 + 16500 + 15900 + 11700	16500 + 16500 + 16500 + 15900 + 11880	16500 + 16500 + 16500 + 16500 + 11700	16500 + 16500 + 16500 + 16500 + 11880	16500 + 16500 + 16500 + 15900 + 15900
	External Static Pressure	Pa 80	80	80	80	80
Sound	Pressure Level C/H	dB(A) 69.5/73.5	69.5/73.5	69.5/73.5	69.5/73.5	70/74
	Power Level C/H	dB(A) 92.5/96.5	92.5/96.5	92.5/96.5	92.5/96.5	93/97
Unit(s)	Height x Width x Depth	mm 1690 x 6230 x 780	1690 x 6230 x 780	1690 x 6230 x 780	1690 x 6230 x 780	1690 x 6530 x 780
	Weight	kg 356 + 356 + 356 + 334 + 228	356 + 356 + 356 + 334 + 228	356 + 356 + 356 + 356 + 228	356 + 356 + 356 + 356 + 228	356 + 356 + 356 + 334 + 334
	Refrigerant Base Charge	kg 9 + 9 + 9 + 9 + 6	9 + 9 + 9 + 9 + 6	9 + 9 + 9 + 9 + 6	9 + 9 + 9 + 9 + 6	9 + 9 + 9 + 9 + 9
Pipe Connections	Suction Gas Pipe Brazing	inch 2-1/8	2-1/8	2-1/8	2-1/8	2-1/8
	Liquid Pipe Flare	inch 7/8	7/8	7/8	7/8	7/8
Maximum	Equivalent Length	m 200	200	200	200	200
	Real Length	m 160	160	160	160	160
	Total Pipe Length (Liquid Line Real Length)	m 1200	1200	1200	1200	1200
	Length To First Branch	m 100	100	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m 10	10	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m 30	30	30	30	30
	Equivalent Length Between Branches	m 50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m 70 (110°)	70 (110°)	70 (110°)	70 (110°)	70 (110°)
	Height Difference Outdoor Lower Than Indoor Units	m 40 (110°)	40 (110°)	40 (110°)	40 (110°)	40 (110°)
	Height Difference Between Indoor Units	m 40	40	40	40	40
	Height Difference Between Outdoor Units	m 5	5	5	5	5
	Electrical	Voltage Range Minimum/Maximum	V 342/456	342/456	342/456	342/456
Electrical Characteristic Run Current Cooling/Heating		A 155.00/122.30	161.60/125.70	164.40/128.50	171.00/131.90	166.70/133.10
Power Supply Wiring Starting Current			Soft Start	Soft Start	Soft Start	Soft Start
Power Supply		V/ph/Hz 380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A 63 + 63 + 63 + 40 + 32	63 + 63 + 63 + 40 + 40	63 + 63 + 63 + 63 + 32	63 + 63 + 63 + 63 + 40	63 + 63 + 63 + 40 + 40
OUTDOOR RETAIL PRICE		£67,690	£69,407	£69,972	£71,689	£72,116

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

* Please refer to Engineering Data Book for details.



SMMS-u - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE		3185	3240	3295	3350
Combination		MMY-	UP11411HT8P-E	UP11611HT8P-E	UP11811HT8P-E
Model Name Heat Pump		MMY-	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2201HT8P-E MUP2001HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E MUP2401HT8P-E
Capacity Range		hp	114	116	118
Maximum Number of Indoor Units		QTY	124	126	128
Cooling Capacity		kW	318.5	324.0	329.5
Heating Capacity		kW	318.5	324.0	329.5
Operating Range Cooling/Heating		°C	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5	-5.0 to 52.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	111.01	114.77	117.19
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.87/7.07/279.8	2.82/7.00/277.0	2.81/6.93/274.2
Heating	Power Consumption	kW	88.05	90.85	92.10
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.62/4.28/168.2	3.57/4.22/165.8	3.58/4.23/166.2
Fan(s)	Standard Air Flow H	l/s	4583 + 4583 + 4583 + 4583 + 4417	4583 + 4583 + 4583 + 4583 + 4417	4583 + 4583 + 4583 + 4583 + 4583
	Standard Air Flow H	m³/h	16500 + 16500 + 16500 + 16500 + 15900	16500 + 16500 + 16500 + 16500 + 15900	16500 + 16500 + 16500 + 16500 + 16500
	External Static Pressure	Pa	80	80	80
Sound	Pressure Level C/H	dB(A)	70/74	70/74	70/74
	Power Level C/H	dB(A)	93/97	93/97	93/97
Unit(s)	Height x Width x Depth	mm	1690 x 6530 x 780	1690 x 6530 x 780	1690 x 6530 x 780
	Weight	kg	356 + 356 + 356 + 356 + 334	356 + 356 + 356 + 356 + 334	356 + 356 + 356 + 356 + 356
	Refrigerant Base Charge	kg	9 + 9 + 9 + 9 + 9	9 + 9 + 9 + 9 + 9	9 + 9 + 9 + 9 + 9
Pipe Connections	Suction Gas Pipe Brazing	inch	2-1/8	2-1/8	2-1/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8
Maximum	Equivalent Length	m	200	200	200
	Real Length	m	160	160	160
	Total Pipe Length (Liquid Line Real Length)	m	1200	1200	1200
	Length To First Branch	m	100	100	100
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30
	Equivalent Length Between Branches	m	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70 (110*)	70 (110*)	70 (110*)
	Height Difference Outdoor Lower Than Indoor Units	m	40 (110*)	40 (110*)	40 (110*)
	Height Difference Between Indoor Units	m	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5
	Electrical				
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	170.40/135.00	176.10/139.30	179.80/141.20
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	63 + 63 + 63 + 50 + 40	63 + 63 + 63 + 63 + 40	63 + 63 + 63 + 63 + 50
OUTDOOR RETAIL PRICE		£73,019	£74,398	£75,301	£76,680

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	£152
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	£187
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	£68
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	£85
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	£138
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	£184
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£177
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	£194
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	£302
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	£331

Note: Indoor connected capacity 50% to 150% of outdoor capacity. Use Data Book for specific details.

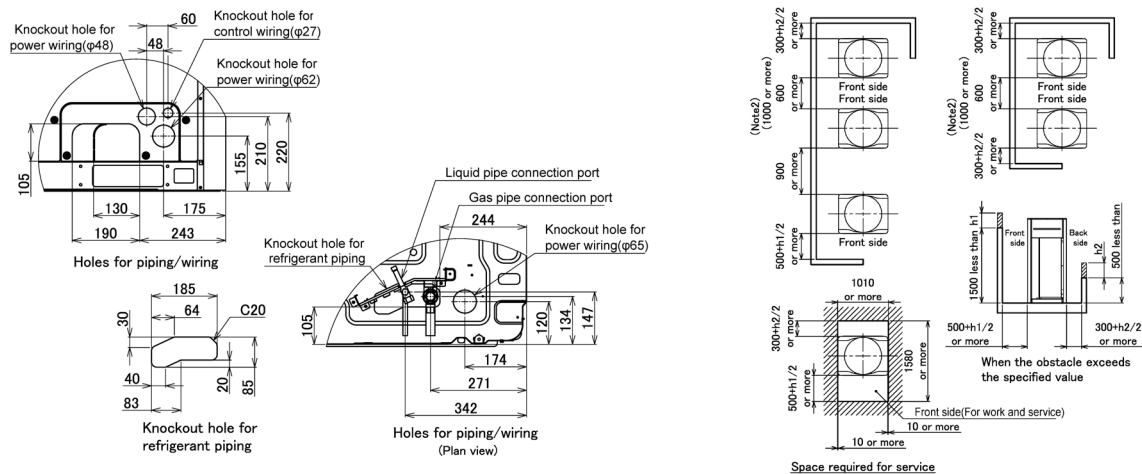
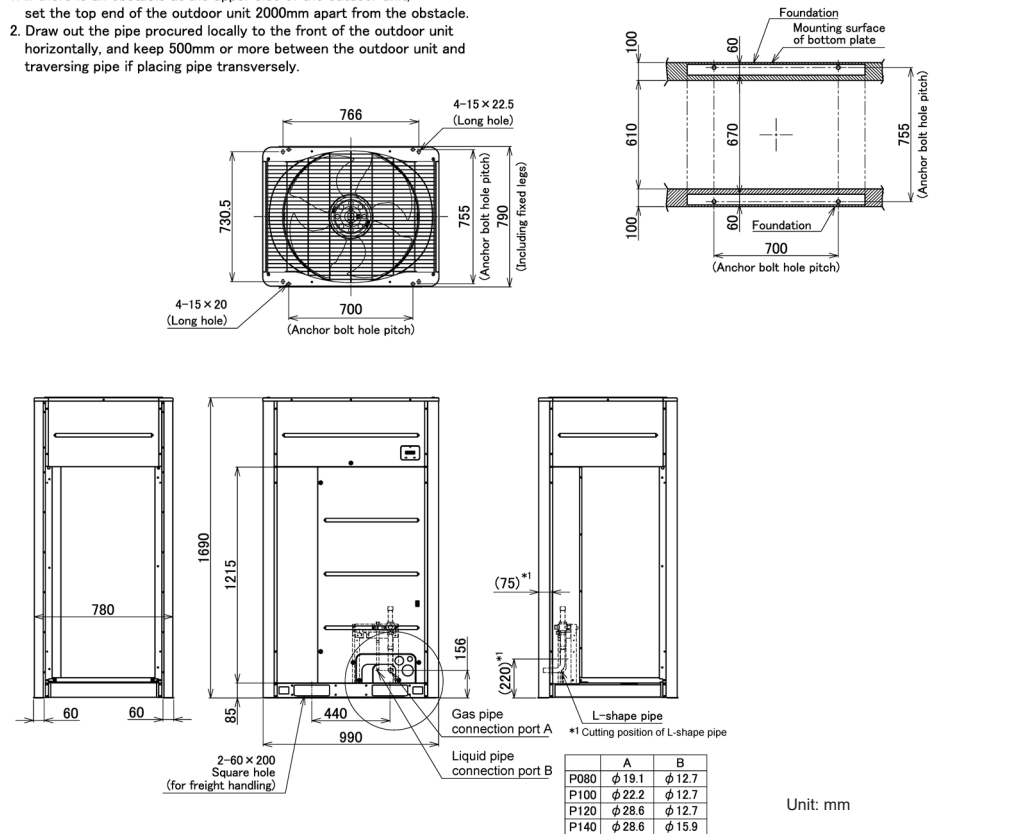
* Please refer to Engineering Data Book for details.



Dimensions - MMY-MUP0801HT8P-E, MMY-MUP1001HT8P-E, MMY-MUP1201HT8P-E, MMY-MUP1401HT8P-E

(Note)

1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Draw out the pipe procured locally to the front of the outdoor unit horizontally, and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.

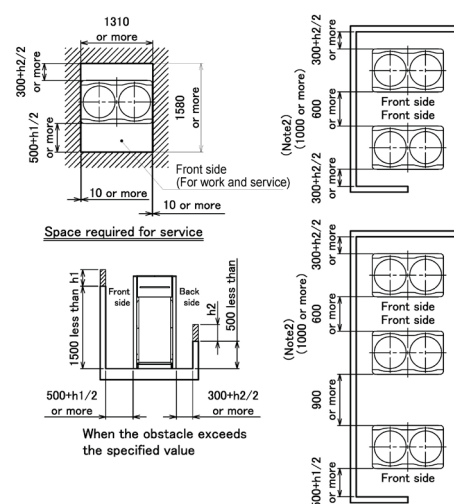
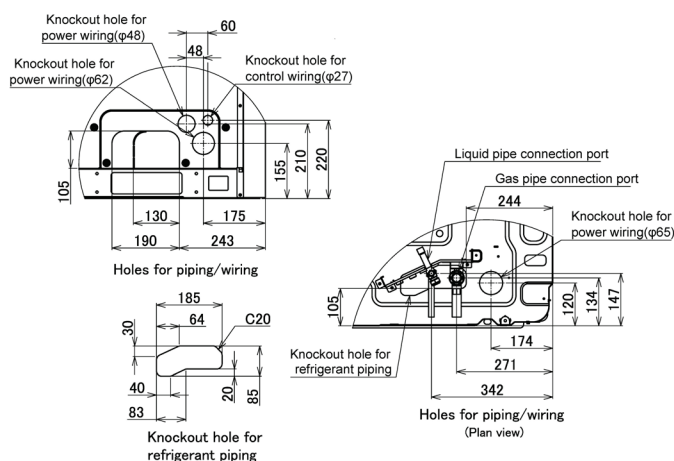
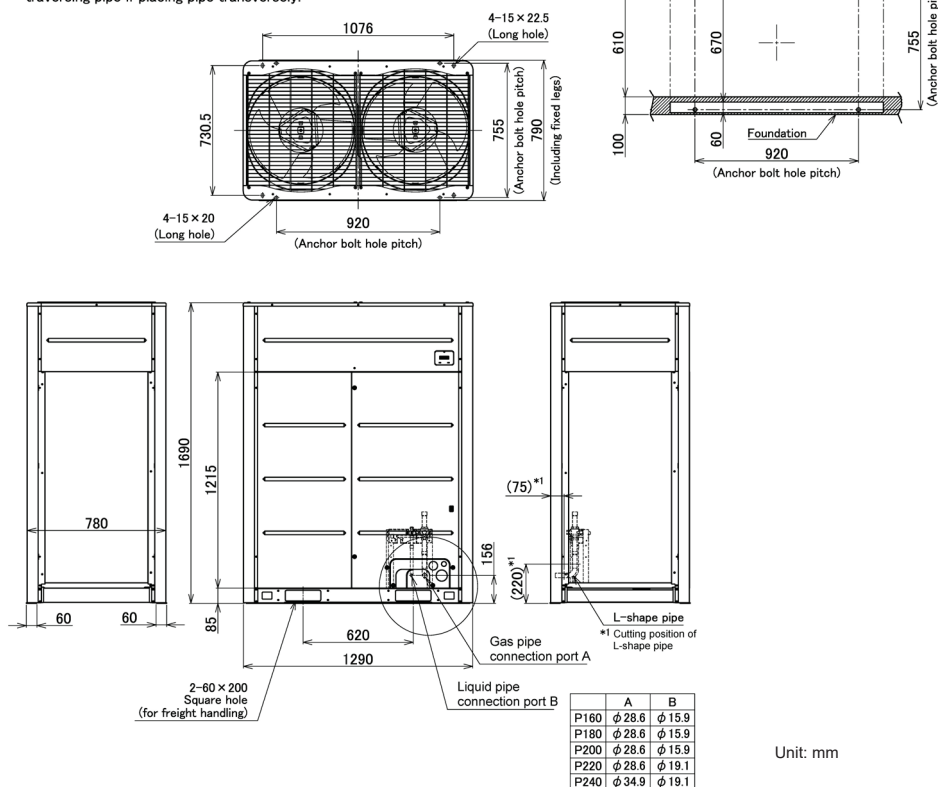




Dimensions - MMY-MUP1601HT8P-E, MMY-MUP1801HT8P-E, MMY-MUP2001HT8P-E, MMY-MUP2201HT8P-E, MMY-MUP2401HT8P-E

(Note)

1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Draw out the pipe procured locally to the front of the outdoor unit horizontally, and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.





SHRM-e - VRF 3-Pipe Heat Recovery Outdoor Unit

CODE		224	280	335	400	450	
Combination Model Name Heat Recovery		MMY-					
		MMY-	MAP0806FT8P-UK	MAP1006FT8P-UK	MAP1206FT8P-UK	MAP1406FT8P-UK	MAP1606FT8P-UK
Capacity Range		hp	8	10	12	14	16
Maximum Number of Indoor Units		QTY	18	22	27	31	36
Cooling Capacity		kW	22.4	28.0	33.5	40.0	45.0
Heating Capacity		kW	25.0	31.5	37.5	45.0	50.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	5.95	7.96	9.75	12.70	13.90
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.76/6.19/244.6	3.51/6.13/242.2	3.43/6.02/237.8	3.14/5.67/223.8	3.23/5.78/228.2
Heating	Power Consumption	kW	5.40	7.05	8.70	10.50	12.20
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.14/3.64/142.6	3.97/3.54/138.6	3.85/3.71/145.4	3.80/3.57/139.8	3.68/3.51/137.4
Fan(s)	Standard Air Flow H	l/s	2694	2694	3389	3389	4806
	Standard Air Flow H	m³/h	9700	9700	12200	12200	17300
Sound	External Static Pressure	Pa	60	50	50	40	40
	Pressure Level C/H	dB(A)	59/61	59/61	60/62	62/64	61/62
Unit(s)	Power Level C/H	dB(A)	80/82	80/82	80/82	81/83	83/84
	Height x Width x Depth	mm	1830 x 990 x 780	1830 x 990 x 780	1830 x 1210 x 780	1830 x 1210 x 780	1830 x 1600 x 780
Pipe Connections	Weight	kg	263	263	316	316	377
	Refrigerant Base Charge	kg	11	11	11	11	11
	Suction Gas Pipe Brazing	inch	7/8	7/8	1-1/8	1-1/8	1-1/8
	Discharge Pipe Brazing	inch	3/4	3/4	3/4	7/8	7/8
Maximum	Liquid Pipe Flare	inch	1/2	1/2	1/2	5/8	3/4
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
	Equivalent Length	m	200	200	200	200	200
	Real Length	m	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300	300
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Electrical	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70
Height Difference Outdoor Lower Than Indoor Units		m	30	30	30	30	30
Height Difference Between Indoor Units		m	40	40	40	40	40
Height Difference Between Outdoor Units		m	5	5	5	5	5
Voltage Range Minimum/Maximum		V	342/456	342/456	342/456	342/456	342/456
Electrical Characteristic Run Current Cooling/Heating		A	9.44/8.57	12.49/11.06	15.46/13.8	19.92/16.47	21.81/19.14
Power Supply Wiring Starting Current			Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
Power Supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	20	25	25	32	40
OUTDOOR RETAIL PRICE		£7,380	£7,964	£10,786	£11,288	£12,340	

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	£77
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	£106
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	£159
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	£262
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	£231
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	£304
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	£370
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	£376
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	£153
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	£206

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRM-e - VRF 3-Pipe Heat Recovery Outdoor Unit (continued)

CODE			504	560	615	680	735
Combination		MMY-			AP2216FT8P-UK	AP2416FT8P-UK	AP2616FT8P-UK
Model Name Heat Recovery		MMY-	MAP1806FT8P-UK	MAP2006FT8P-UK	MAP1206FT8P-UK MAP1006FT8P-UK	MAP1406FT8P-UK MAP1006FT8P-UK	MAP1406FT8P-UK MAP1206FT8P-UK
Capacity Range		hp	18	20	22	24	26
Maximum Number of Indoor Units		QTY	40	41	49	54	58
Cooling Capacity		kW	50.4	56.0	61.5	68.0	73.5
Heating Capacity		kW	56.5	58.0	69.0	76.5	82.5
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	16.00	18.60	17.71	20.66	22.45
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.15/5.94/234.6	3.01/5.68/224.2	3.47/6.07/239.8	3.29/5.88/232.2	3.27/5.84/230.6
Heating	Power Consumption	kW	13.70	15.90	15.75	17.55	19.20
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.67/3.59/140.6	3.52/3.60/141.0	3.90/3.64/142.6	3.87/3.56/139.4	3.83/3.64/142.6
Fan(s)	Standard Air Flow H	l/s	4806	4972	3389 + 2694	3389 + 2694	3389 + 3389
	Standard Air Flow H	m³/h	17300	17900	12200 + 9700	12200 + 9700	12200 + 12200
	External Static Pressure	Pa	40	40	50	40	40
Sound	Pressure Level C/H	dB(A)	61/62	61/62	63/65	64/66	64.5/66.5
	Power Level C/H	dB(A)	83/84	83/84	83.5/85.5	84/86	84/86
Unit(s)	Height x Width x Depth	mm	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 2220 x 780	1830 x 2220 x 780	1830 x 2440 x 780
	Weight	kg	377	377	316 + 263	316 + 263	316 + 316
	Refrigerant Base Charge	kg	11	11	11 + 11	11 + 11	11 + 11
Pipe Connections	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-3/8	1-3/8	1-3/8
	Discharge Pipe Brazing	inch	7/8	7/8	1-1/8	1-1/8	1-1/8
	Liquid Pipe Flare	inch	3/4	3/4	3/4	3/4	7/8
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	200	200	200	200	200
	Real Length	m	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300	300
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30	30
	Height Difference Between Indoor Units	m	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5
	Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
Electrical Characteristic Run Current Cooling/Heating		A	25.1/21.49	29.18/24.68	27.94/24.85	32.41/27.53	35.41/30.29
Power Supply Wiring Starting Current			Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
Power Supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	40	50	25 + 25	32 + 25	32 + 25

OUTDOOR RETAIL PRICE	£13,150	£14,018	£18,750	£19,252	£22,074
-----------------------------	----------------	----------------	----------------	----------------	----------------

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	£77
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	£106
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	£159
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	£262
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	£231
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	£304
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	£370
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	£376
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	£153
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	£206

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRM-e - VRF 3-Pipe Heat Recovery Outdoor Unit (continued)

CODE			800	850	904	954	1008
Combination Model Name Heat Recovery		MMY-	AP2816FT8P-UK	AP3016FT8P-UK	AP3216FT8P-UK	AP3416FT8P-UK	AP3616FT8P-UK
		MMY-	MAP1406FT8P-UK	MAP1606FT8P-UK	MAP1806FT8P-UK	MAP1806FT8P-UK	MAP1806FT8P-UK
			MAP1406FT8P-UK	MAP1406FT8P-UK	MAP1406FT8P-UK	MAP1606FT8P-UK	MAP1806FT8P-UK
Capacity Range		hp	28	30	32	34	36
Maximum Number of Indoor Units		QTY	63	64	64	64	64
Cooling Capacity		kW	80.0	85.0	90.4	95.4	100.8
Heating Capacity		kW	90.0	95.0	101.5	106.5	113.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	25.40	26.60	27.80	29.90	32.00
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.15/5.67/223.8	3.20/5.72/225.8	3.25/5.82/229.8	3.19/5.86/231.4	3.15/5.94/234.6
Heating	Power Consumption	kW	21.00	22.70	24.40	25.90	27.40
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.81/3.57/139.8	3.74/3.54/138.6	3.70/3.59/140.6	3.68/3.55/139.0	3.68/3.59/140.6
Fan(s)	Standard Air Flow H	l/s	3389 + 3389	4806 + 3389	4806 + 3389	4806 + 4806	4806 + 4806
	Standard Air Flow H	m³/h	12200 + 12200	17300 + 12200	17300 + 12200	17300 + 17300	17300 + 17300
Sound	External Static Pressure	Pa	40	40	40	40	40
	Pressure Level C/H	dB(A)	65.5/67.5	65/66.5	65/66.5	64.5/65.5	64.5/65.5
Unit(s)	Power Level C/H	dB(A)	84.5/86.5	85.5/87	85.5/87	86.5/87.5	86.5/87.5
	Height x Width x Depth	mm	1830 x 2440 x 780	1830 x 2830 x 780	1830 x 2830 x 780	1830 x 3220 x 780	1830 x 3220 x 780
Pipe Connections	Weight	kg	316 + 316	377 + 316	377 + 316	377 + 377	377 + 377
	Refrigerant Base Charge	kg	11 + 11	11 + 11	11 + 11	11 + 11	11 + 11
	Suction Gas Pipe Brazing	inch	1-3/8	1-3/8	1-3/8	1-3/8	1-5/8
	Discharge Pipe Brazing	inch	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8	7/8
Maximum	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
	Equivalent Length	m	200	200	200	200	200
	Real Length	m	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300	1000
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30
	Equivalent Length Between Branches	m	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30	30
	Height Difference Between Indoor Units	m	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5
	Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456
Electrical Characteristic Run Current Cooling/Heating		A	39.85/32.95	41.73/35.61	43.62/38.28	46.91/40.63	50.2/42.99
Power Supply Wiring Starting Current			Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
Power Supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Suggested Fused Supply(s)		A	32 + 32	40 + 32	40 + 32	40 + 40	40 + 40
OUTDOOR RETAIL PRICE			£22,576	£23,628	£24,438	£25,490	£26,300

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	£77
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	£106
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	£159
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	£262
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	£231
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	£304
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	£370
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	£376
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	£153
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	£206

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRM-e - VRF 3-Pipe Heat Recovery Outdoor Unit (continued)

CODE		1064	1120	1200
Combination		MMY-	AP3816FT8P-UK	AP4016FT8P-UK
Model Name Heat Recovery		MMY-	MAP2006FT8P-UK MAP1806FT8P-UK	MAP1406FT8P-UK MAP1406FT8P-UK MAP1406FT8P-UK
Capacity Range		hp	38	42
Maximum Number of Indoor Units		QTY	64	64
Cooling Capacity		kW	106.4	112.0
Heating Capacity		kW	114.5	116.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	34.60	37.20
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.08/5.81/229.4	3.01/5.68/224.2
Heating	Power Consumption	kW	29.60	31.80
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.59/3.60/141.0	3.52/3.60/141.0
Fan(s)	Standard Air Flow H	l/s	4972 + 4806	4972 + 4972
	Standard Air Flow H	m³/h	17900 + 17300	17900 + 17900
	External Static Pressure	Pa	40	40
Sound	Pressure Level C/H	dB(A)	64.5/65.5	64.5/65.5
	Power Level C/H	dB(A)	86.5/87.5	86.5/87.5
Unit(s)	Height x Width x Depth	mm	1830 x 3220 x 780	1830 x 3220 x 780
	Weight	kg	377 + 377	377 + 377
	Refrigerant Base Charge	kg	11 + 11	11 + 11
Pipe Connections	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8
	Discharge Pipe Brazing	inch	1-3/8	1-3/8
	Liquid Pipe Flare	inch	7/8	7/8
	Balance Pipe Flare	inch	3/8	3/8
Maximum	Maximum Equivalent Length	m	200	200
	Real Length	m	180	180
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30
	Equivalent Length Between Branches	m	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30
	Height Difference Between Indoor Units	m	40	40
	Height Difference Between Outdoor Units	m	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	54.28/46.19	58.36/49.35
	Power Supply Wiring Starting Current		Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	50 + 40	50 + 50
OUTDOOR RETAIL PRICE		£27,168	£28,036	£33,864

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	£77
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	£106
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	£159
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	£262
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	£231
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	£304
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	£370
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	£376
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	£153
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	£206

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRM-e - VRF 3-Pipe Heat Recovery High Efficiency Outdoor Unit

CODE		448	504	560	672
Combination		MMY-	AP1626FT8P-UK	AP1826FT8P-UK	AP2026FT8P-UK
Model Name Heat Recovery		MMY-	MAP0806FT8P-UK MAP0806FT8P-UK	MAP0806FT8P-UK MAP1006FT8P-UK	MAP0806FT8P-UK MAP0806FT8P-UK MAP0806FT8P-UK
Capacity Range		hp	16	18	20
Maximum Number of Indoor Units		QTY	36	40	41
Cooling Capacity		kW	44.8	50.4	56.0
Heating Capacity		kW	50.0	56.5	63.0
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	12.13	14.18	16.23
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.76/6.19/244.6	3.64/6.16/243.0	3.51/6.13/242.2
Heating	Power Consumption	kW	10.77	12.28	13.79
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.14/3.64/142.6	4.06/3.59/140.4	3.97/3.54/138.6
Fan(s)	Standard Air Flow H	l/s	2694 + 2694	2694 + 2694	2694 + 2694
	Standard Air Flow H	m³/h	9700 + 9700	9700 + 9700	9700 + 9700
	External Static Pressure	Pa	60	60	50
Sound	Pressure Level C/H	dB(A)	62/64	62/64	62/64
	Power Level C/H	dB(A)	83/85	83/85	83/85
Unit(s)	Height x Width x Depth	mm	1830 x 2000 x 780	1830 x 2000 x 780	1830 x 3010 x 780
	Weight	kg	263 + 263	263 + 263	263 + 263 + 263
	Refrigerant Base Charge	kg	11.0 + 11.0	11.0 + 11.0	11.0 + 11.0 + 11.0
Pipe Connections	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-3/8
	Discharge Pipe Brazing	inch	7/8	7/8	1-1/8
	Liquid Pipe Flare	inch	3/4	3/4	3/4
	Balance Pipe Flare	inch	3/8	3/8	3/8
Maximum	Equivalent Length	m	200	200	200
	Real Length	m	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	15	15	50
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30
	Equivalent Length Between Branches	m	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30
	Height Difference Between Indoor Units	m	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5
Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456
	Electrical Characteristic Run Current Cooling/Heating	A	18.88/17.14	21.93/19.63	24.98/22.12
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	20 + 20	20 + 25	25 + 25

OUTDOOR RETAIL PRICE	£14,760	£15,344	£15,928	£22,140
-----------------------------	----------------	----------------	----------------	----------------

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	£77
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	£106
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	£159
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	£262
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	£231
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	£304
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	£370
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	£376
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	£153
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	£206

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRM-e - VRF 3-Pipe Heat Recovery High Efficiency Outdoor Unit (continued)

CODE			728	784	840	1005	1180	
Combination		MMY-	AP2626FT8P-UK	AP2826FT8P-UK	AP3026FT8P-UK	AP3626FT8P-UK	AP4226FT8P-UK	
Model Name Heat Recovery		MMY-	MAP0806FT8P-UK MAP0806FT8P-UK MAP1006FT8P-UK	MAP0806FT8P-UK MAP1006FT8P-UK MAP1006FT8P-UK	MAP1006FT8P-UK MAP1006FT8P-UK MAP1006FT8P-UK	MAP1206FT8P-UK MAP1206FT8P-UK MAP1206FT8P-UK	MAP1606FT8P-UK MAP1606FT8P-UK MAP1006FT8P-UK	
Capacity Range		hp	26	28	30	36	42	
Maximum Number of Indoor Units		QTY	58	63	64	64	64	
Cooling Capacity		kW	72.8	78.4	84.0	100.5	118.0	
Heating Capacity		kW	81.5	88.0	94.5	112.5	131.5	
Operating Range Cooling/Heating		°C	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	-10.0 to 46.0/ -25.0 to 15.5	
Cooling	Power Consumption	kW	20.25	22.30	23.9	29.3	35.8	
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.68/6.17/243.4	3.68/6.15/242.8	3.51/6.13/242.2	3.43/6.02/237.8	3.32/5.90/232.4	
Heating	Power Consumption	kW	17.66	19.17	21.2	26.1	31.5	
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.08/3.61/141.0	4.08/3.57/139.6	3.97/3.54/138.6	3.85/3.71/145.4	3.78/3.52/137.6	
Fan(s)	Standard Air Flow H	l/s	2694 + 2694 + 2694	2694 + 2694 + 2694	2694 + 2694 + 2694	3389 + 3389 + 3389	4806 + 4806 + 2694	
	Standard Air Flow H	m³/h	9700 + 9700 + 9700	9700 + 9700 + 9700	9700 + 9700 + 9700	12200 + 12200 + 12200	17300 + 17300 + 9700	
Sound	External Static Pressure	Pa	50	50	50	50	40	
	Pressure Level C/H	dB(A)	62/64	62/64	62/64	63/65	63/64.5	
Unit(s)	Power Level C/H	dB(A)	83/85	83/85	83/85	83/85	85/86	
	Height x Width x Depth	mm	1830 x 3010 x 780	1830 x 3010 x 780	1830 x 3010 x 780	1830 x 3670 x 780	1830 x 4230 x 780	
Pipe Connections	Weight	kg	263 + 263 + 263	263 + 263 + 263	263 + 263 + 263	316 + 316 + 316	377 + 377 + 263	
	Refrigerant Base Charge	kg	11.0 + 11.0 + 11.0	11.0 + 11.0 + 11.0	11.0 + 11.0 + 11.0	11.0 + 11.0 + 11.0	11.0 + 11.0 + 11.0	
Maximum	Suction Gas Pipe Brazing	inch	1-3/8	1-3/8	1-3/8	1-5/8	1-5/8	
	Discharge Pipe Brazing	inch	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	
	Liquid Pipe Flare	inch	7/8	7/8	7/8	7/8	7/8	
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8	
Electrical	Equivalent Length	m	200	200	200	200	200	
	Real Length	m	180	180	180	180	180	
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	1000	1000	
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100	
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85	
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	10	10	10	10	10	
	Real Length Between Single Port FS Unit and Indoor Unit (3 series)	m	50 (15)	50 (15)	50 (15)	50 (15)	50 (15)	
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50	
	Real Length Of Indoor Unit Connecting Piping	m	30	30	30	30	30	
	Equivalent Length Between Branches	m	50	50	50	50	50	
	Height Difference Outdoor Higher Than Indoor Units	m	70	70	70	70	70	
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30	30	
	Height Difference Between Indoor Units	m	40	40	40	40	40	
	Height Difference Between Outdoor Units	m	5	5	5	5	5	
	Electrical	Voltage Range Minimum/Maximum	V	342/456	342/456	342/456	342/456	342/456
		Electrical Characteristic Run Current Cooling/Heating	A	31.37/28.2	34.42/30.69	37.47/33.18	46.38/41.40	56.11/49.34
Power Supply Wiring Starting Current			Soft Start	Soft Start	Soft Start	Soft Start	Soft Start	
Power Supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	
Suggested Fused Supply(s)		A	20 + 20 + 25	20 + 25 + 25	25 + 25 + 25	25 + 25 + 25	40 + 40 + 25	

OUTDOOR RETAIL PRICE	£22,724	£23,308	£23,892	£32,358	£32,644
-----------------------------	----------------	----------------	----------------	----------------	----------------

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	£77
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	£106
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	£159
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	£262
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	£231
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	£304
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	£370
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	£376
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	£153
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	£206

Note: Indoor connected capacity of outdoor capacity. Use Data Book for specific details
Indoor to Indoor ≤ 15 m - Diversity 70 to 135%
Indoor to Indoor > 15 m - Diversity 70 to 105%



SHRM-e - VRF 3-Pipe Heat Recovery Flow Selector

Flow Selector Unit		Standard Box			Premium Box		
	RBM-	Y1123FE	Y1803FE	Y2803FE	Y1124FE	Y1804FE	Y2804FE
Height x Width x Depth	mm	190 x 490 x 160	190x490x160	200x640x200	180 x 425 x 300	180x425x300	180x495x350
Weight	kg	5	5	8	11	11	16
Standard 5 Core Control Cable Max. Length	m	6	6	6	-	-	-
Standard 3 Core Power Cable Max. Length	m	6	6	6	-	-	-
Optional Accessory Combined Control/Power Cable Max. Length	m	15	15	15	-	-	-
Power Supply From Local or Group Indoor Unit	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
FLOW SELECTOR UNIT PRICE		£684	£759	£1,191	£1,029	£1,141	£1,789

Single Unit Connection For Flow Selector

MM*-AP***		007 to 012	015 to 018	024 to 030	036 to 056	072 to 096	005 to 012	015 to 018	024 to 030	036 to 056	072 to 096
Indoor Unit Side Gas Pipe	inch	3/8	1/2	5/8	5/8	7/8	3/8	1/2	5/8	5/8	7/8
Indoor Unit Side Liquid Pipe	inch	1/4	1/4	3/8	3/8	1/2	1/4	1/4	3/8	3/8	1/2
Outdoor Unit Side Suction Gas Pipe	inch	5/8	5/8	5/8	5/8	7/8	5/8	5/8	5/8	5/8	7/8
Outdoor Unit Side Discharge Gas Pipe	inch	1/2	1/2	1/2	1/2	3/4	1/2	1/2	1/2	1/2	3/4
Outdoor Unit Side Liquid Pipe	inch	3/8	3/8	3/8	3/8	1/2	3/8	3/8	3/8	3/8	1/2
Max. Pipe Length To Indoor Unit	m	15	15	15	15	15	50	50	50	50	50

Multi Unit Connection For Flow Selector

Indoor unit capacity code		Less than 4 hp	4 hp or more Less than 6.4 hp	6.4 hp or more Less than 10 hp	Less than 4 hp	4 hp or more Less than 6.4 hp	6.4 hp or more Less than 10 hp
Indoor Unit Side Gas Pipe	inch	5/8	5/8	7/8	5/8	5/8	7/8
Indoor Unit Side Liquid Pipe	inch	3/8	3/8	1/2	3/8	3/8	1/2
Outdoor Unit Side Suction Gas Pipe	inch	5/8	5/8	7/8	5/8	5/8	7/8
Outdoor Unit Side Discharge Gas Pipe	inch	1/2	1/2	3/4	1/2	1/2	3/4
Outdoor Unit Side Liquid Pipe	inch	3/8	3/8	1/2	3/8	3/8	1/2
Max. Connectable Indoor Units		5	8	8	6	10	16
Max. Total Pipe Length	m	30	30	30	50	50	50
Max. Height Difference Between Indoor Units	m	±0.5	±0.5	±0.5	±3.0	±3.0	±3.0

Multi Flow Selector Unit	RBM-	Y1801F4PE	Y1801F6PE
Height x Width x Depth	mm	215 x 1157 x 687	215 x 1477 x 687
Weight	kg	38	53
Number of Ports		4	6
Max. Connectable Indoor Units per Port		10	10
Max. Connectable Indoor Units		40	60
Max. Remote Controller per Port Individual Indoor Unit Control		10	10
Max. Remote Controller per Port Group Indoor Unit Control		2	2
Max. Pipe Length from Single Port	m	50	50
Max. Total Pipe Length from All Ports	m	120	180
Max. Height Difference Between Indoor Units	m	±3.0	±3.0
Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50
Suggested Fused Supply	A	5	5
FLOW SELECTOR UNIT PRICE		£2,514	£3,772

Multi Unit Indoor Side Connection For Flow Selector

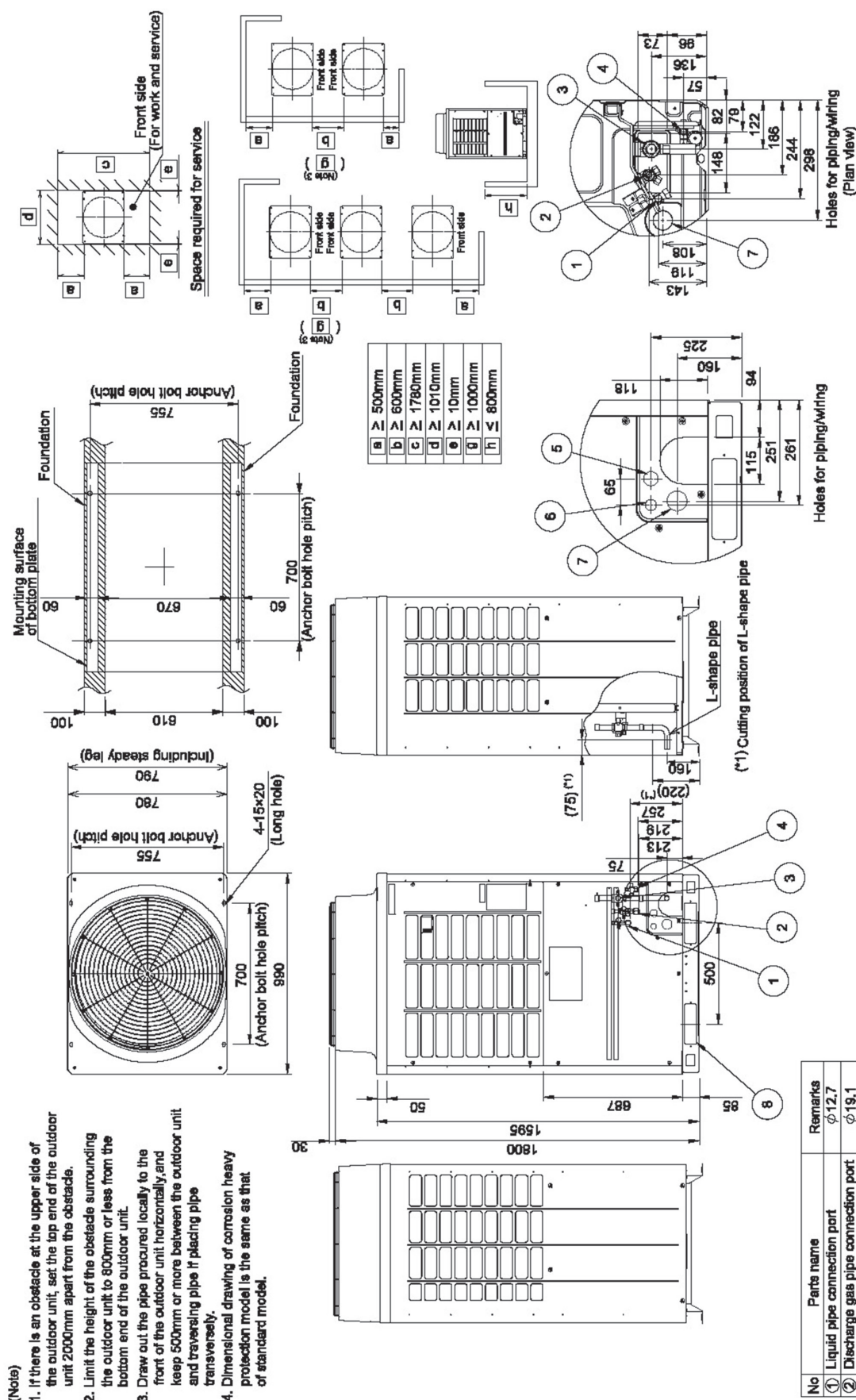
MM*-AP***		005 to 012	015 to 018	024 to 056
Indoor Unit Side Gas Pipe Real Length ≤ 15 m	inch	3/8	1/2	5/8
Indoor Unit Side Liquid Pipe Real Length ≤ 15 m	inch	1/4	1/4	3/8
Indoor Unit Side Gas Pipe Real Length >15 m	inch	1/2	5/8	5/8
Indoor Unit Side Liquid Pipe Real Length >15 m	inch	3/8	3/8	3/8
Max. Pipe Length to Indoor Unit	m	50	50	50

Multi Unit Outdoor Side Connection For Flow Selector

Indoor Unit Capacity Code		Less than 6.4 hp	6.4 hp or more Less than 12.2 hp	12.2 hp or more Less than 16.2 hp	16.2 hp or more Less than 20.2 hp	20.2 hp or more Less than 25.2 hp	25.2 hp or more Less than 35.2 hp	More than 35.2 hp
Outdoor Unit Side Suction Gas Pipe	inch	5/8	7/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8
Outdoor Unit Side Discharge Gas Pipe	inch	1/2	3/4	7/8	7/8	1-1/8	1-1/8	1-3/8
Outdoor Unit Side Liquid Pipe	inch	3/8	1/2	5/8	3/4	3/4	7/8	7/8
Max. Connectable Indoor Units		10	20	27	33	42	58	60



Dimensions - MMY-MAP0806FT8P-UK, MMY-MAP1006FT8P-UK



(Unit:mm)

SHRM-e

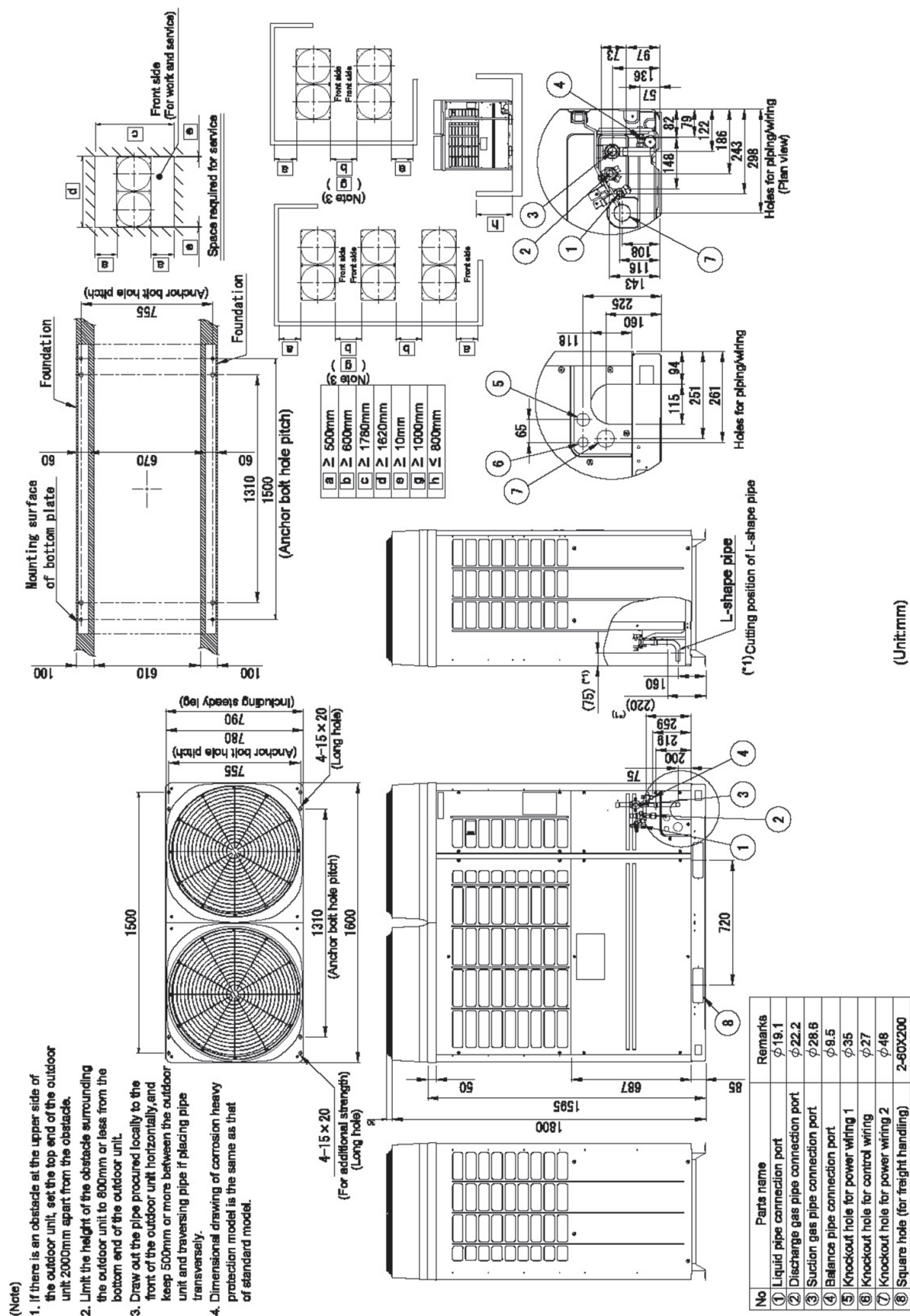


Model Name	ϕA	ϕB
MAP1206 type	$\phi 12.7$	$\phi 19.1$
MAP1406 type	$\phi 15.0$	$\phi 22.9$

No	Part's name	Remarks
①	Liquid pipe connection port	φA
②	Discharge gas pipe connection port	φB
③	Suction gas pipe connection port	φ28.6
④	Balance pipe connection port	φ19.5
⑤	Knockout hole for power wiring 1	φ35
⑥	Knockout hole for control wiring	φ27
⑦	Knockout hole for power wiring 2	φ48
⑧	Knockout hole for control wiring 2	φ50.8



Dimensions - MMY-MAP1608FT8P-UK, MMY-MAP1806FT8P-UK, MMY-MAP2006FT8P-UK



R22 and R407C replacement technology for MiNi SMMS-e, SMMS-u and SHRM-e

Continuing our commitment to more environmentally-friendly refrigerants our latest generation MiNi SMMS-e, SMMS-u and SHRM-e VRF systems can be used to replace existing R22 and R407C air conditioning plant. R22 (HCFC) was commonly used in air conditioning production up to 2004, but on 1st January 2015 R22 equipment became non-serviceable, resulting in systems having to be replaced with more environmentally-friendly refrigerants that have a lower or zero Ozone Depleting Potential (ODP).

- Available for heat pump and heat recovery systems
- Re-use existing refrigerant pipework
- Cost-effective upgrade

- Reduced installation time and expense
- ECA compliant dependent on design
- Minimal disruption
- Ideal for refurbishment projects where the main risers are no longer accessible
- Lower energy consumption with up to 60% increase in energy efficiency
- Chance to increase or decrease system capacity
- Smaller footprint compared to previous R22 models
- Can re-use existing power supply
- End-of-life recycling program for replaced plant

Pipe	Suction Gas			Liquid Side		Max. Piping Length to 1st Branch Joint (m)
MiNi SMMS-e	5/8	3/4	7/8	3/8	1/2	
4 hp	✓	✓		✓	✓	65
5 hp	✓	✓		✓	✓	65
6 hp		✓	✓	✓	✓	65

Pipe	Suction Gas				Liquid Side				Discharge Gas				Max. Piping Length to 1st Branch Joint (m)	
	7/8	1-1/8	1-3/8	1-5/8	1/2	5/8	3/4	7/8	3/4	7/8	1-1/8	1-3/8	Height Difference Outdoor to Indoor	
													Height <3 m	Height >3 <70 m
SHRM-e														
8 hp	✓				✓				✓				100	85
10 hp	✓				✓				✓				100	85
12 hp		✓			✓				✓				100	85
14 hp		✓				✓				✓			100	85
16 hp		✓					✓			✓			100	85
18 hp		✓					✓			✓			100	85
20 hp		✓					✓			✓			100	85
22 hp			✓				✓				✓		100	85
24 hp			✓				✓				✓		100	85
26 hp			✓					✓			✓		100	85
28 hp			✓					✓			✓		100	85
30 hp			✓					✓			✓		100	85
32 hp			✓					✓			✓		100	85
34 hp			✓					✓			✓		100	85
36 hp				✓				✓				✓	100	85
38 hp				✓				✓				✓	100	85
40 hp				✓				✓				✓	100	85
42 hp				✓				✓				✓	100	85

Pipe	Suction Gas						Liquid Side					Max. Piping Length to 1st Branch Joint (m)	
	3/4	7/8	1-1/8	1-3/8	1-5/8	1-7/8	1/2	5/8	3/4	7/8	1-1/8	Height Difference Outdoor to Indoor	
												Height <3 m	Height >3 <70 m
SMMS-u													
8 hp	✓	✓					✓	✓				100	65
10 hp		✓					✓	✓				100	65
12 hp			✓	✓			✓	✓				100	65
14 hp			✓	✓				✓	✓			100	65
16 hp			✓	✓				✓	✓			100	65
18 hp			✓	✓				✓	✓			100	65
20 hp			✓	✓				✓	✓			100	65
22 hp			✓	✓					✓	✓		100	65
24 hp				✓	✓				✓	✓		100	65
26 hp				✓	✓				✓	✓		100	65
28 hp				✓	✓				✓	✓		100	65
30 hp				✓	✓				✓	✓		100	65
32 hp				✓	✓				✓	✓		100	65
34 hp				✓	✓				✓	✓		100	65
36 hp					✓	✓				✓	✓	100	65
38 hp					✓	✓				✓	✓	100	65
40 hp					✓	✓				✓	✓	100	65
42 hp					✓	✓				✓	✓	100	65
44 hp					✓	✓				✓	✓	100	65
46 hp					✓	✓				✓	✓	100	65
48 hp					✓	✓				✓	✓	100	65
50 hp					✓	✓				✓	✓	100	65
52 hp					✓	✓				✓	✓	100	65
54 hp					✓	✓				✓	✓	70	50
56 hp					✓	✓				✓	✓	70	50
58 hp					✓	✓				✓	✓	70	50
60 hp					✓	✓				✓	✓	70	50

Maximum system diversity factor connectable indoor units to outdoor is 105%.

The data tables detail the main pipe sizes to the first joint. The pipes can be vertical or horizontal providing they match the data. After the first joint for main pipes all other pipework must follow the same principles/criteria as for new installations as detailed in the installation and data books.

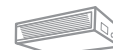
LARGE INDOOR UNIT LINE-UP

The wide choice of indoor unit models increases design flexibility and reduces costs to the building's owner by ensuring the most appropriate system is installed.

- 17 different types of indoor units
- Capacity from 0.3 hp to 14 hp
- For heating, cooling, fresh air and hot water production



CASSETTE



DUCTED



WALL/CEILING



CONSOLE



HOT WATER
MODULE



FRESH AIR
SOLUTIONS

SUPERIOR AIR COMFORT

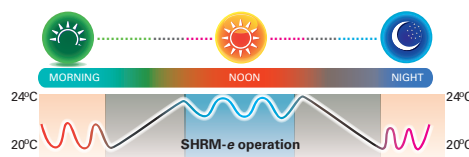
Optimised heating operations

The Toshiba VRF allow continuous heating, even during external defrost operations, thanks to the Kobetsu and Renkei function integrated in SMMS-u. Indoor units will now operate continually, with only a minimal reduction in capacity output. This results in an uninterrupted flow of warm air, ensuring maximum comfort to the end user.



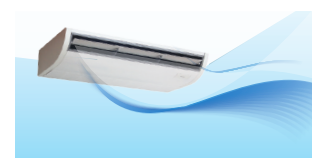
Dual set point for more precision

The dual set point increases the system's energy efficiency and reduces overall running costs, with longer periods of time in thermal off mode. Heating and cooling temperatures at which the indoor unit will begin to operate can now be individually selected giving maximum flexibility to the user.



Cool comfort with soft cooling mode

The development of the soft cooling mode provides a new level for cool comfort. You will have the freedom to personalise the air flow intensity, angle and direction directly from the remote control and enjoy the indoor environment at the right temperature without being directly exposed to the cold draught.



Low consumption for low operation cost

Premium comfort doesn't mean high power consumption. By using DC motors, large air discharge surface and magic coil system, Toshiba drastically reduces the indoor unit power consumption.

No compromise on air quality



Indoor units dependent on model are equipped with air suction filters. A symbol on the remote control warns the user when filters need to be cleaned.

Example for the 4-Way Cassette size 7:



	PCB	FAN	DRAIN	TOTAL
Low fan speed	4 W	6 W	3 W	13 W
Medium fan speed	4 W	7 W	3 W	14 W
High fan speed	4 W	9 W	3 W	16 W



VRF High-Wall Indoor Unit - 7 Series

CODE			17	22	28	36
Performance						
Indoor Unit		MMK-	AP0057HP-E	AP0077HP-E	AP0097HP-E	AP0127HP-E
Capacity Code		hp	0.6	0.8	1.0	1.3
Nominal	Cooling Capacity	kW	1.7	2.2	2.8	3.6
	Heating Capacity	kW	1.9	2.5	3.2	4.0
UK	Cooling Total/Sensible	kW	1.5/1.4	2.0/1.6	2.5/1.9	3.3/2.4
	Heating	kW	1.3	1.7	2.2	2.7
Electrical	Power Input	kW	0.013	0.015	0.016	0.017
	Run Current	A	0.14	0.15	0.16	0.17
	Start Current	A	0.19	0.20	0.21	0.22
Indoor Data						
Air Flow	High - Medium - Low	l/s	124 - 103 - 75	133 - 107 - 75	150 - 110 - 75	150 - 114 - 75
	High - Medium - Low	m³/h	445 - 370 - 270	480 - 385 - 270	510 - 395 - 270	510 - 410 - 270
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	35 - 30 - 25	36 - 31 - 25	37 - 32 - 25
	Power High - Medium - Low	dB(A)	48 - 44 - 40	50 - 45 - 40	51 - 46 - 40	52 - 47 - 40
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
	Weight	kg	11	11	11	11
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)
INDOOR RETAIL PRICE			£627	£637	£646	£658

CODE			50	63	80
Performance					
Indoor Unit		MMK-	AP0157HP-E	AP0187HP-E	AP0247HP-E
Capacity Code		hp	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	4.5	5.6	7.1
	Heating Capacity	kW	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	4.1/2.7	5.1/3.4	6.7/4.4
	Heating	kW	3.4	4.3	5.4
Electrical	Power Input	kW	0.028	0.032	0.050
	Run Current	A	0.25	0.28	0.40
	Start Current	A	0.35	0.38	0.50
Indoor Data					
Air Flow	High - Medium - Low	l/s	233 - 192 - 153	250 - 200 - 153	333 - 250 - 167
	High - Medium - Low	m³/h	840 - 690 - 550	900 - 720 - 550	1200 - 900 - 600
Sound	Pressure High - Medium - Low	dB(A)	40 - 36 - 32	41 - 37 - 32	45 - 39 - 33
	Power High - Medium - Low	dB(A)	55 - 51 - 47	56 - 52 - 47	60 - 54 - 48
Unit	Height x Width x Depth	mm	293 x 1050 x 250	293 x 1050 x 250	293 x 1050 x 250
	Weight	kg	16	16	16
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)
INDOOR RETAIL PRICE			£746	£761	£838

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12



VRF 4-Way Compact Cassette Indoor Unit

CODE			17	22	28	36	45	56
Performance								
Indoor Unit		MMU-	AP0057MH-E	AP0077MH-E	AP0097MH-E	AP0127MH-E	AP0157MH-E	AP0187MH-E
Capacity Code		hp	0.6	0.8	1.0	1.25	1.7	2.0
Nominal	Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6
	Heating Capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible	kW	1.5/1.3	2.0/1.7	2.5/2.1	3.3/2.5	4.1/3.1	5.1/3.9
	Heating	kW	1.3	1.3	1.7	2.2	2.7	3.4
Electrical	Power Input	kW	0.016	0.023	0.025	0.027	0.030	0.052
	Run Current	A	0.16	0.23	0.24	0.25	0.28	0.46
	Start Current	A	0.28	0.41	0.43	0.44	0.50	0.80

Indoor Data		MMU-	AP0057MH-E	AP0077MH-E	AP0097MH-E	AP0127MH-E	AP0157MH-E	AP0187MH-E
Air Flow	High - Medium - Low	l/s	120 - 112 - 102	153 - 128 - 105	158 - 130 - 105	165 - 140 - 112	183 - 153 - 130	233 - 167 - 145
	High - Medium - Low	m³/h	430 - 400 - 365	552 - 462 - 378	570 - 468 - 378	594 - 504 - 402	660 - 552 - 468	840 - 642 - 522
Sound	Pressure High - Medium - Low	dB(A)	32 - 30 - 29	37 - 33 - 29	38 - 33 - 29	38 - 34 - 30	40 - 35 - 31	47 - 39 - 34
	Power High - Medium - Low	dB(A)	47 - 45 - 44	52 - 48 - 44	53 - 48 - 44	53 - 49 - 45	55 - 50 - 46	62 - 54 - 49
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3

INDOOR RETAIL PRICE	£1,054	£1,075	£1,138	£1,177	£1,229	£1,294
----------------------------	---------------	---------------	---------------	---------------	---------------	---------------

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



Standard 600 x 600 ceiling size



VRF 4-Way Cassette Indoor Unit

CODE		28	36	45	56	71	
Performance							
Indoor Unit		MMU-	AP0094HP1-E	AP0124HP1-E	AP0154HP1-E	AP0184HP1-E	AP0244HP1-E
Capacity Code		hp	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.5/2.0	3.3/2.5	4.1/3.0	5.1/3.8	6.4/4.6
	Heating	kW	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.021	0.021	0.023	0.026	0.036
	Run Current	A	0.23	0.23	0.27	0.29	0.38
	Start Current	A	0.30	0.30	0.33	0.36	0.42
Indoor Data		MMU-	AP0094HP1-E	AP0124HP1-E	AP0154HP1-E	AP0184HP1-E	AP0244HP1-E
Air Flow	High - Medium - Low	l/s	222 - 203 - 188	222 - 203 - 188	258 - 230 - 220	292 - 255 - 222	358 - 255 - 222
	High - Medium - Low	m³/h	800 - 730 - 680	800 - 730 - 680	930 - 830 - 790	1050 - 920 - 800	1290 - 920 - 800
Sound	Pressure High - Medium - Low	dB(A)	30 - 29 - 27	30 - 29 - 27	31 - 29 - 27	32 - 29 - 27	35 - 31 - 28
	Power High - Medium - Low	dB(A)	45 - 44 - 42	45 - 44 - 42	46 - 44 - 42	47 - 44 - 42	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4	4	4	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,151	£1,178	£1,231	£1,257	£1,303

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMU-	AP0274HP1-E	AP0304HP1-E	AP0364HP1-E	AP0484HP1-E	AP0564HP1-E
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.2	8.2/5.9	10.2/7.3	12.7/9.3	14.5/10.4
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.036	0.043	0.088	0.112	0.112
	Run Current	A	0.38	0.43	0.78	0.88	0.88
	Start Current	A	0.42	0.59	0.87	1.23	1.26
Indoor Data		MMU-	AP0274HP1-E	AP0304HP1-E	AP0364HP1-E	AP0484HP1-E	AP0564HP1-E
Air Flow	High - Medium - Low	l/s	358 - 255 - 222	367 - 305 - 237	547 - 397 - 297	592 - 397 - 313	592 - 422 - 342
	High - Medium - Low	m³/h	1290 - 920 - 800	1320 - 1100 - 850	1970 - 1430 - 1070	2130 - 1430 - 1130	2130 - 1520 - 1230
Sound	Pressure High - Medium - Low	dB(A)	35 - 31 - 28	38 - 33 - 30	43 - 38 - 32	46 - 38 - 33	46 - 40 - 33
	Power High - Medium - Low	dB(A)	50 - 46 - 43	53 - 48 - 45	58 - 53 - 47	61 - 53 - 48	61 - 55 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	20	25	25	25
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U31PGP(W)-E	kg	4	4	4	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,505	£1,624	£1,704	£1,770	£1,968

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
RBC-AX32U(W)-E	4-Way Cassette Corner	Replacement corner pocket with built-in receiver and remote controller	£185
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Individual louvre control



Automatic restart



Louvre control



Multi-split branching



VRF 2-Way Cassette Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MMU-	AP0072WH1	AP0092WH1	AP0122WH1	AP0152WH1	AP0182WH1	AP0242WH1
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.5	2.5/1.9	3.3/2.4	4.1/2.9	5.1/3.7	6.4/4.6
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.029	0.029	0.029	0.030	0.044	0.054
	Run Current	A	0.23	0.23	0.23	0.24	0.32	0.39
	Start Current	A	0.35	0.35	0.35	0.36	0.48	0.59
Indoor Data								
Air Flow	High - Medium - Low	l/s	155 - 138 - 125	155 - 138 - 125	155 - 138 - 125	167 - 148 - 125	250 - 208 - 172	292 - 233 - 205
	High - Medium - Low	m³/h	558 - 498 - 450	558 - 498 - 450	558 - 498 - 450	600 - 534 - 450	900 - 750 - 618	1050 - 840 - 738
Sound	Pressure High - Medium - Low	dB(A)	34 - 32 - 30	34 - 32 - 30	34 - 32 - 30	35 - 33 - 30	35 - 33 - 30	38 - 35 - 33
	Power High - Medium - Low	dB(A)	49 - 47 - 45	49 - 47 - 45	49 - 47 - 45	50 - 48 - 45	50 - 48 - 45	53 - 50 - 48
Unit	Height x Width x Depth	mm	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	345 x 1180 x 570	345 x 1180 x 570
	Weight	kg	19	19	19	19	26	26
Panel	Type	RBC-	UW283PG(W)-E	UW283PG(W)-E	UW283PG(W)-E	UW283PG(W)-E	UW803PG(W)-E	UW803PG(W)-E
	Height x Width x Depth	mm	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1415 x 680	20 x 1415 x 680
	Weight	kg	10	10	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1.397	£1.434	£1.469	£1.517	£1.726	£1.809

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMU-	AP0272WH1	AP0302WH1	AP0362WH1	AP0482WH1	AP0562WH1
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.0	8.2/5.4	10.2/7.3	12.7/8.5	14.5/9.4
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.054	0.064	0.073	0.088	0.117
	Run Current	A	0.39	0.46	0.48	0.57	0.75
	Start Current	A	0.59	0.69	0.72	0.86	1.13
Indoor Data							
Air Flow		MMU-	AP0272WH1	AP0302WH1	AP0362WH1	AP0482WH1	AP0562WH1
	High - Medium - Low	l/s	292 - 233 - 205	350 - 250 - 217	483 - 398 - 328	500 - 412 - 342	567 - 438 - 367
	High - Medium - Low	m³/h	1050 - 840 - 738	1260 - 900 - 780	1740 - 1434 - 1182	1800 - 1482 - 1230	2040 - 1578 - 1320
Sound	Pressure High - Medium - Low	dB(A)	38 - 35 - 33	40 - 37 - 34	42 - 39 - 36	43 - 40 - 37	46 - 42 - 39
	Power High - Medium - Low	dB(A)	53 - 50 - 48	55 - 52 - 49	57 - 54 - 51	58 - 55 - 52	61 - 57 - 54
Unit	Height x Width x Depth	mm	345 x 1180 x 570	345 x 1180 x 570	345 x 1600 x 570	345 x 1600 x 570	345 x 1600 x 570
	Weight	kg	26	26	36	36	36
Panel	Type	RBC-	UW803PG(W)-E	UW803PG(W)-E	UW1403PG(W)-E	UW1403PG(W)-E	UW1403PG(W)-E
	Height x Width x Depth	mm	20 x 1415 x 680	20 x 1415 x 680	20 x 1835 x 680	20 x 1835 x 680	20 x 1835 x 680
	Weight	kg	14	14	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£2.027	£2.043	£2.431	£2.627	£2.842

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
RBC-AX32UW(W)-E	2-Way Cassette Receiver	Replacement receiver and remote controller	£208
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



VRF 1-Way Cassette Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MMU-	AP0074YH1-E	AP0094YH1-E	AP0124YH1-E	AP0154SH1-E	AP0184SH1-E	AP0244SH1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.7	2.5/2.1	3.3/2.5	4.1/3.0	5.1/3.7	6.4/4.7
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.053	0.053	0.053	0.042	0.046	0.075
	Run Current	A	0.24	0.24	0.24	0.34	0.37	0.62
	Start Current	A	0.60	0.60	0.60	0.51	0.54	0.80
Indoor Data		MMU-	AP0074YH1-E	AP0094YH1-E	AP0124YH1-E	AP0154SH1-E	AP0184SH1-E	AP0244SH1-E
Air Flow	High - Medium - Low	l/s	150 - 133 - 117	150 - 133 - 117	150 - 133 - 117	208 - 192 - 175	217 - 200 - 183	317 - 267 - 225
	High - Medium - Low	m³/h	540 - 480 - 420	540 - 480 - 420	540 - 480 - 420	750 - 690 - 630	780 - 720 - 660	1140 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	42 - 39 - 34	42 - 39 - 34	42 - 39 - 34	37 - 35 - 32	38 - 36 - 34	45 - 41 - 37
	Power High - Medium - Low	dB(A)	57 - 54 - 49	57 - 54 - 49	57 - 54 - 49	52 - 50 - 47	53 - 51 - 49	60 - 56 - 52
Unit	Height x Width x Depth	mm	235 x 850 x 400	235 x 850 x 400	235 x 850 x 400	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710
	Weight	kg	22	22	22	21	21	22
Panel	Type	RBC-	UY136PG	UY136PG	UY136PG	US21PGE	US21PGE	US21PGE
	Height x Width x Depth	mm	18 x 1050 x 470	18 x 1050 x 470	18 x 1050 x 470	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800
	Weight	kg	3.5	3.5	3.5	5.5	5.5	5.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	1/2 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1.676	£1.720	£1.763	£1.701	£1.894	£1.992

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
RBC-AX33CE	Ceiling Receiver	Replacement receiver and remote controller	£203
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



VRF Slim Ducted Indoor Unit

CODE			17	22	28	36
Performance						
Indoor Unit		MMD-	AP0056SPH1-E	AP0074SPH1-E	AP0094SPH1-E	AP0124SPH1-E
Capacity Code		hp	0.6	0.8	1.0	1.25
Nominal	Cooling Capacity	kW	1.7	2.2	2.8	3.6
	Heating Capacity	kW	1.9	2.5	3.2	4.0
UK	Cooling Total/Sensible	kW	1.5/1.3	2.0/1.7	2.5/2.0	3.3/2.4
	Heating	kW	1.3	1.7	2.2	2.7
Electrical	Power Input	kW	0.038	0.039	0.039	0.043
	Run Current	A	0.29	0.29	0.29	0.31
	Start Current	A	0.51	0.51	0.51	0.54
Indoor Data						
Air Flow	High - Medium - Low	l/s	121 - 111 - 103	150 - 130 - 112	150 - 130 - 112	167 - 145 - 125
	High - Medium - Low	m³/h	435 - 400 - 370	540 - 470 - 400	540 - 470 - 400	600 - 520 - 450
External Static Pressure	Standard	Pa	6	6	6	5
	Upper - Lower	Pa	50 - 10	50 - 10	50 - 10	50 - 10
Sound pressure	Back Inlet High - Medium - Low	dB(A)	27 - 25 - 24	28 - 26 - 24	28 - 26 - 24	29 - 27 - 25
	Under Inlet High - Medium - Low	dB(A)	33 - 32 - 30	36 - 33 - 30	36 - 33 - 30	38 - 35 - 32
Sound power	Back Inlet High - Medium - Low	dB(A)	42 - 40 - 39	43 - 41 - 39	43 - 41 - 39	44 - 42 - 40
	Under Inlet High - Medium - Low	dB(A)	48 - 47 - 45	51 - 48 - 45	51 - 48 - 45	53 - 50 - 47
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP20	VP25 - VP20	VP25 - VP20	VP25 - VP20
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£740	£750	£764	£785

CODE			45	56	71	80
Performance						
Indoor Unit		MMD-	AP0154SPH1-E	AP0184SPH1-E	AP0244SPH1-E	AP0274SPH1-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8.0
	Heating Capacity	kW	5.0	6.3	8.0	9.0
UK	Cooling Total/Sensible	kW	4.1/3.0	5.1/3.7	6.4/4.5	7.3/5.1
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.045	0.054	0.105	0.105
	Run Current	A	0.32	0.39	0.75	0.75
	Start Current	A	0.56	0.68	1.13	1.13
Indoor Data						
Air Flow	High - Medium - Low	l/s	192 - 167 - 145	217 - 188 - 162	300 - 278 - 250	300 - 278 - 250
	High - Medium - Low	m³/h	690 - 600 - 520	780 - 680 - 580	1080 - 1000 - 900	1080 - 1000 - 900
External Static Pressure	Standard	Pa	5	4	2	2
	Upper - Lower	Pa	50 - 10	50 - 10	50 - 10	50 - 10
Sound pressure	Back Inlet High - Medium - Low	dB(A)	32 - 30 - 28	33 - 31 - 29	38 - 36 - 33	38 - 36 - 33
	Under Inlet High - Medium - Low	dB(A)	39 - 36 - 33	40 - 38 - 36	49 - 47 - 44	49 - 47 - 44
Sound power	Back Inlet High - Medium - Low	dB(A)	47 - 45 - 43	48 - 46 - 44	53 - 51 - 48	53 - 51 - 48
	Under Inlet High - Medium - Low	dB(A)	54 - 51 - 48	55 - 53 - 51	64 - 62 - 59	64 - 62 - 59
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 1140 x 645	210 x 1140 x 645
	Weight	kg	23	23	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP20	VP25 - VP20	VP25 - VP20	VP25 - VP20
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£799	£839	£906	£978

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-AX32E2	External Receiver	Independent receiver and WH-LIIE remote controller for all models	£263
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF Standard Ducted Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MMD-	AP0076BHP1-E	AP0096BHP1-E	AP0126BHP1-E	AP0156BHP1-E	AP0186BHP1-E	AP0246BHP1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.7	2.5/2.2	3.3/2.5	4.1/3.3	5.1/3.8	6.4/4.9
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.038	0.043	0.043	0.062	0.062	0.077
	Run Current	A	0.26	0.29	0.29	0.42	0.42	0.52
	Start Current	A	0.45	0.50	0.50	0.73	0.73	0.90

Indoor Data		MMD-	AP0076BHP1-E	AP0096BHP1-E	AP0126BHP1-E	AP0156BHP1-E	AP0186BHP1-E	AP0246BHP1-E
Air Flow	High - Medium - Low	l/s	150 - 125 - 100	158 - 133 - 108	158 - 133 - 108	217 - 183 - 150	217 - 183 - 150	333 - 267 - 242
	High - Medium - Low	m³/h	540 - 450 - 360	570 - 480 - 390	570 - 480 - 390	798 - 660 - 540	798 - 660 - 540	1200 - 990 - 870
External Static Pressure	Standard	Pa	30	30	30	30	30	40
	Upper - Lower	Pa	120 - 30	120 - 30	120 - 30	120 - 30	120 - 30	120 - 30
Sound	Pressure High - Medium - Low	dB(A)	29 - 26 - 23	30 - 26 - 23	30 - 26 - 23	33 - 29 - 25	33 - 29 - 25	36 - 31 - 27
	Power High - Medium - Low	dB(A)	44 - 41 - 38	45 - 41 - 38	45 - 41 - 38	48 - 44 - 40	48 - 44 - 40	51 - 46 - 42
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 1000 x 750
	Weight	kg	23	23	23	23	23	30
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

INDOOR RETAIL PRICE

£817

£794

£839

£863

£921

£963

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMD-	AP0276BHP1-E	AP0306BHP1-E	AP0366BHP1-E	AP0486BHP1-E	AP0566BHP1-E
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.5	8.2/6.1	10.2/7.8	12.7/9.3	14.5/10.3
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.077	0.094	0.172	0.198	0.198
	Run Current	A	0.52	0.61	1.07	1.23	1.23
	Start Current	A	0.90	1.06	1.85	2.13	2.13

Indoor Data		MMD-	AP0276BHP1-E	AP0306BHP1-E	AP0366BHP1-E	AP0486BHP1-E	AP0566BHP1-E
Air Flow	High - Medium - Low	l/s	333 - 267 - 242	350 - 300 - 258	533 - 450 - 383	583 - 483 - 417	583 - 483 - 417
	High - Medium - Low	m³/h	1200 - 990 - 870	1260 - 1110 - 930	1920 - 1620 - 1380	2100 - 1740 - 1500	2100 - 1740 - 1500
External Static Pressure	Standard	Pa	40	40	50	50	50
	Upper - Lower	Pa	120 - 30	120 - 30	120 - 30	120 - 30	120 - 30
Sound	Pressure High - Medium - Low	dB(A)	36 - 31 - 27	36 - 31 - 27	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	51 - 46 - 42	51 - 46 - 42	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 1000 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	30	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

INDOOR RETAIL PRICE

£1,067

£1,139

£1,306

£1,398

£1,484

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-AX32E2	External Receiver	Independent receiver and WH-L!ISE remote controller for all models	£263
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	MMD-AP007#-018#HP1-E	£128
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	MMD-AP024#-030#BHP1-E	£150
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	MMD-AP036#-056#BHP1-E	£191



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF High-Static Ducted Indoor Unit

CODE			56	71	80	112
Performance						
Indoor Unit		MMD-	AP0186HP1-E	AP0246HP1-E	AP0276HP1-E	AP0366HP1-E
Capacity Code		hp	2.0	2.5	3.0	4.0
Nominal	Cooling Capacity	kW	5.6	7.1	8.0	11.2
	Heating Capacity	kW	6.3	8.0	9.0	12.5
UK	Cooling Total/Sensible	kW	5.1/3.7	6.4/4.9	7.3/5.5	10.2/7.8
	Heating	kW	4.3	5.4	6.1	8.5
Electrical	Power Input	kW	0.085	0.115	0.115	0.198
	Run Current	A	0.52	0.70	0.70	1.17
	Start Current	A	0.78	1.05	1.05	1.75
Indoor Data						
Air Flow	Standard	l/s	222	333	333	533
	Upper - Lower	l/s	222 - 153	333 - 222	333 - 222	533 - 372
	Standard	m³/h	800	1200	1200	1920
	Upper - Lower	m³/h	800 - 550	1200 - 800	1200 - 800	1920 - 1340
External Static Pressure	Standard	Pa	100	100	100	100
	Upper - Lower	Pa	200 - 50	200 - 50	200 - 50	200 - 50
Sound	Pressure High - Medium - Low	dB(A)	37 - 32 - 30	38 - 34 - 31	38 - 34 - 31	41 - 37 - 34
	Power High - Medium - Low	dB(A)	60 - 54 - 50	60 - 55 - 51	60 - 55 - 51	62 - 57 - 53
Unit	Height x Width x Depth	mm	298 x 1000 x 750	298 x 1000 x 750	298 x 1000 x 750	298 x 1400 x 750
	Weight	kg	34	34	34	43
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10
INDOOR RETAIL PRICE			£1,277	£1,407	£1,469	£1,539

CODE			140	160	224	280
Performance						
Indoor Unit		MMD-	AP0486HP1-E	AP0566HP1-E	AP0726HP-E	AP0966HP-E
Capacity Code		hp	5.0	6.0	8.0	10.0
Nominal	Cooling Capacity	kW	14.0	16.0	22.4	28.0
	Heating Capacity	kW	16.0	18.0	25.0	31.5
UK	Cooling Total/Sensible	kW	12.7/9.3	14.5/10.6	20.3/14.1	25.4/17.3
	Heating	kW	10.9	12.2	17.0	21.4
Electrical	Power Input	kW	0.230	0.290	0.540	0.790
	Run Current	A	1.34	1.68	2.80	3.75
	Start Current	A	2.01	2.51	7.80	7.80
Indoor Data						
Air Flow	Standard	l/s	583	666	1055	1333
	Upper - Lower	l/s	583 - 394	667 - 461	1056 - 694	1333 - 972
	Standard	m³/h	2100	2400	3800	4800
	Upper - Lower	m³/h	2100 - 1420	2400 - 1660	3800 - 2500	4800 - 3500
External Static Pressure	Standard	Pa	100	100	150	150
	Upper - Lower	Pa	200 - 50	200 - 50	250 - 50	250 - 50
Sound	Pressure High - Medium - Low	dB(A)	42 - 40 - 35	45 - 42 - 37	44 - 40 - 36	46 - 42 - 38
	Power High - Medium - Low	dB(A)	65 - 62 - 54	68 - 64 - 56	67 - 62 - 56	69 - 64 - 58
Unit	Height x Width x Depth	mm	298 x 1400 x 750	298 x 1400 x 750	448 x 1400 x 900	448 x 1400 x 900
	Weight	kg	43	43	97	97
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	7/8 - 1/2	7/8 - 1/2
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16
INDOOR RETAIL PRICE			£1.703	£1.823	£2.744	£2.898

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-AX32E2	External Receiver	Independent receiver and WH-L!ISE remote controller for all models	£263
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-LK801D-E	Filter Kit	Long Life Filter Kit MMD-AP018#-027#BHP1-E	£64
TCB-LK1401D-E	Filter Kit	Long Life Filter Kit MMD-AP036#-056#BHP1-E	£83



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF Vertical Ducted Indoor Unit

CODE			22	28	36	45	56	71	
Performance									
Indoor Unit			MMD-	AP0076BHP1-E	AP0096BHP1-E	AP0126BHP1-E	AP0156BHP1-E	AP0186BHP1-E	AP0246BHP1-E
Capacity Code			hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0	
UK	Cooling Total/Sensible	kW	2.0/1.7	2.5/2.2	3.3/2.5	4.1/3.3	5.1/3.8	6.4/4.9	
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4	
Electrical	Power Input	kW	0.038	0.043	0.043	0.062	0.062	0.077	
	Run Current	A	0.26	0.29	0.29	0.42	0.42	0.52	
	Start Current	A	0.45	0.50	0.50	0.73	0.73	0.90	
Indoor Data			MMD-	AP0076BHP1-E	AP0096BHP1-E	AP0126BHP1-E	AP0156BHP1-E	AP0186BHP1-E	AP0246BHP1-E
Air Flow	High - Medium - Low	l/s	150 - 125 - 100	158 - 133 - 108	158 - 133 - 108	217 - 183 - 150	217 - 183 - 150	333 - 267 - 242	
	High - Medium - Low	m³/h	540 - 450 - 360	570 - 480 - 390	570 - 480 - 390	798 - 660 - 540	798 - 660 - 540	1200 - 990 - 870	
External Static Pressure	Standard	Pa	30	30	30	30	30	40	
	Upper - Lower	Pa	115 - 30	115 - 30	115 - 30	115 - 30	115 - 30	115 - 30	
Sound	Pressure High - Medium - Low	dB(A)	29 - 26 - 23	30 - 26 - 23	30 - 26 - 23	33 - 29 - 25	33 - 29 - 25	36 - 31 - 27	
	Power High - Medium - Low	dB(A)	44 - 41 - 38	45 - 41 - 38	45 - 41 - 38	48 - 44 - 40	48 - 44 - 40	51 - 46 - 42	
Unit	Height x Width x Depth	mm	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 1000 x 275	
	Weight	kg	23	23	23	23	23	30	
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850	< 850	
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	
RBC-VCK1 VERTICAL CONVERSION KIT			£521	£521	£521	£521	£521	£521	
INDOOR UNIT			£817	£794	£839	£863	£921	£963	
INDOOR RETAIL PRICE			£1,338	£1,315	£1,360	£1,384	£1,442	£1,484	

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMD-	AP0276BHP1-E	AP0306BHP1-E	AP0366BHP1-E	AP0486BHP1-E	AP0566BHP1-E
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.5	8.2/6.1	10.2/7.8	12.7/9.3	14.5/10.3
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.077	0.094	0.172	0.198	0.198
	Run Current	A	0.52	0.61	1.07	1.23	1.23
	Start Current	A	0.90	1.06	1.85	2.13	2.13
Indoor Data							
Air Flow	High - Medium - Low	l/s	333 - 267 - 242	350 - 300 - 258	533 - 450 - 383	583 - 483 - 417	583 - 483 - 417
	High - Medium - Low	m³/h	1200 - 990 - 870	1260 - 1110 - 930	1920 - 1620 - 1380	2100 - 1740 - 1500	2100 - 1740 - 1500
External Static Pressure	Standard	Pa	40	40	50	50	50
	Upper - Lower	Pa	115 - 30	115 - 30	115 - 30	115 - 30	115 - 30
Sound	Pressure High - Medium - Low	dB(A)	36 - 31 - 27	36 - 31 - 27	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	51 - 46 - 42	51 - 46 - 42	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	750 x 1000 x 275	750 x 1000 x 275	750 x 1400 x 275	750 x 1400 x 275	750 x 1400 x 275
	Weight	kg	30	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
RBC-VCK1 VERTICAL CONVERSION KIT			£521	£521	£521	£521	£521
INDOOR UNIT			£1,067	£1,139	£1,306	£1,398	£1,484
INDOOR RETAIL PRICE			£1,588	£1,660	£1,827	£1,919	£2,005

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£263
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£9
TCB-AX32E2	External Receiver	Independent receiver and WH-L!!SE remote controller for all models	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	MMD-AP007#-018#HP1-E	£128
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	MMD-AP024#-030#BHP1-E	£150
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	MMD-AP036#-056#BHP1-E	£191





VRF Ceiling-Suspended Indoor Unit - 8 Series

CODE			45	56	71	80
Performance						
Indoor Unit		MMC-	AP0158HP-E	AP0188HP-E	AP0248HP-E	AP0278HP-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8.0
	Heating Capacity	kW	5.0	6.3	8.0	9.0
UK	Cooling Total/Sensible	kW	4.1/3.0	5.1/3.7	6.4/4.8	7.3/5.3
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.033	0.034	0.067	0.067
	Run Current	A	0.036	0.037	0.065	0.065
	Start Current	A	0.54	0.55	0.97	0.97
Indoor Data						
Air Flow	High - Medium - Low	l/s	233 - 200 - 150	267 - 200 - 150	400 - 283 - 217	400 - 283 - 217
	High - Medium - Low	m³/h	840 - 690 - 540	960 - 720 - 540	1440 - 1020 - 750	1440 - 1020 - 750
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 28	37 - 35 - 28	41 - 36 - 29	41 - 36 - 29
	Power High - Medium - Low	dB(A)	51 - 49 - 43	52 - 50 - 43	56 - 51 - 44	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1270 x 690
	Weight	kg	24	24	30	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,304	£1,441	£1,527	£1,541

CODE			112	140	160
Performance					
Indoor Unit		MMC-	AP0368HP-E	AP0488HP-E	AP0568HP-E
Capacity Code		hp	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	11.2	14.0	16.0
	Heating Capacity	kW	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	10.2/7.2	12.7/9.3	14.5/9.4
	Heating	kW	8.5	10.9	12.2
Electrical	Power Input	kW	0.083	0.083	0.111
	Run Current	A	0.770	0.770	0.990
	Start Current	A	1.16	1.16	1.49
Indoor Data					
Air Flow	High - Medium - Low	l/s	517 - 383 - 283	517 - 433 - 333	567 - 467 - 350
	High - Medium - Low	m³/h	1860 - 1350 - 1020	1860 - 1530 - 1200	2040 - 1650 - 1260
Sound	Pressure High - Medium - Low	dB(A)	44 - 38 - 32	44 - 41 - 35	46 - 42 - 36
	Power High - Medium - Low	dB(A)	59 - 53 - 47	59 - 56 - 50	61 - 57 - 51
Unit	Height x Width x Depth	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	39	39	39
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,563	£1,591	£1,702

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
RBC-AX33CE	Ceiling Receiver	Replacement receiver and remote controller	£203
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Ceiling installation



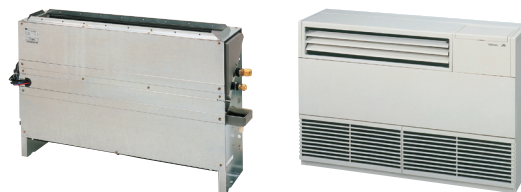
Drain connection both sides



Automatic restart



Multi-split branching



VRF Concealed-Chassis Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MML-	AP0074BH1-E	AP0094BH1-E	AP0124BH1-E	AP0154BH1-E	AP0184BH1-E	AP0244BH1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.3	2.5/1.5	3.3/2.1	4.1/2.7	5.1/3.3	6.4/4.2
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.056	0.056	0.056	0.090	0.090	0.095
	Run Current	A	0.25	0.25	0.25	0.45	0.45	0.46
	Start Current	A	0.60	0.60	0.60	0.80	0.80	1.00
Indoor Data								
Air Flow		MML-	AP0074BH1-E	AP0094BH1-E	AP0124BH1-E	AP0154BH1-E	AP0184BH1-E	AP0244BH1-E
	High - Medium - Low	l/s	133 - 117 - 83	133 - 117 - 83	133 - 117 - 83	200 - 167 - 133	200 - 167 - 133	267 - 217 - 183
	High - Medium - Low	m³/h	460 - 400 - 300	460 - 400 - 300	460 - 400 - 300	740 - 600 - 490	740 - 600 - 490	950 - 790 - 640
External Static Pressure	Standard	Pa	5	5	5	5	5	5
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	42 - 37 - 33
	Power High - Medium - Low	dB(A)	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	57 - 52 - 48
Unit	Height x Width x Depth	mm	600 x 745 x 220	600 x 745 x 220	600 x 745 x 220	600 x 1045 x 220	600 x 1045 x 220	600 x 1045 x 220
	Weight	kg	21	21	21	29	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£971	£995	£1,026	£1,073	£1,141	£1,187

VRF Floor-Mounted Console Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MML-	AP0074H1-E	AP0094H1-E	AP0124H1-E	AP0154H1-E	AP0184H1-E	AP0244H1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.3	2.5/1.5	3.3/2.1	3.8/2.5	5.1/3.3	6.4/4.2
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.056	0.056	0.092	0.092	0.102	0.102
	Run Current	A	0.260	0.260	0.430	0.430	0.470	0.470
	Start Current	A	0.60	0.60	0.80	0.80	1.10	1.10
Indoor Data								
Air Flow		MML-	AP0074H1-E	AP0094H1-E	AP0124H1-E	AP0154H1-E	AP0184H1-E	AP0244H1-E
Sound	High - Medium - Low	l/s	133 - 117 - 100	133 - 117 - 100	250 - 217 - 180	250 - 217 - 180	300 - 267 - 217	300 - 267 - 217
	High - Medium - Low	m³/h	480 - 420 - 360	480 - 420 - 360	900 - 780 - 650	900 - 780 - 650	1080 - 930 - 780	1080 - 930 - 780
	Pressure High - Medium - Low	dB(A)	39 - 37 - 35	39 - 37 - 35	45 - 41 - 38	45 - 41 - 38	49 - 44 - 39	49 - 44 - 39
Unit	Power High - Medium - Low	dB(A)	54 - 52 - 50	54 - 52 - 50	60 - 56 - 53	60 - 56 - 53	64 - 59 - 54	64 - 59 - 54
	Height x Width x Depth	mm	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230
	Weight	kg	37	37	37	37	37	37
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20	VP26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1.164	£1.193	£1.221	£1.283	£1.363	£1.423

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Concealed false wall installation
(concealed chassis unit)



Floor-mounted console



Automatic restart



Multi-split branching



VRF Bi-Flow Console Indoor Unit

CODE			22	28	36	45	56
Performance							
Indoor Unit		MML-	AP0074NH1-E	AP0094NH1-E	AP0124NH1-E	AP0154NH1-E	AP0184NH1-E
Capacity Code		hp	0.8	1.0	1.25	1.7	2.0
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible	kW	2.0/1.6	2.5/1.9	3.3/2.4	4.1/2.9	5.1/3.6
	Heating	kW	1.7	2.2	2.7	3.4	4.3
Electrical	Power Input	kW	0.021	0.021	0.025	0.034	0.052
	Run Current	A	0.20	0.20	0.23	0.29	0.42
	Start Current	A	0.26	0.26	0.30	0.38	0.55
Indoor Data							
Air Flow	High - Medium - Low	l/s	150 - 100 - 83	150 - 100 - 83	150 - 117 - 83	167 - 133 - 100	200 - 150 - 117
	High - Medium - Low	m³/h	510 - 366 - 282	510 - 366 - 282	552 - 408 - 324	624 - 468 - 384	726 - 528 - 426
Sound	Pressure High - Medium - Low	dB(A)	38 - 32 - 26	38 - 32 - 26	40 - 34 - 29	43 - 37 - 31	47 - 40 - 34
	Power High - Medium - Low	dB(A)	53 - 47 - 41	53 - 47 - 41	55 - 49 - 44	58 - 52 - 46	62 - 55 - 49
Unit	Height x Width x Depth	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
	Weight	kg	17	17	17	17	17
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP16/14	VP16/14	VP16/14	VP16/14	VP16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)
INDOOR RETAIL PRICE			£1,222	£1,317	£1,411	£1,506	£1,563

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£63
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£77
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£122
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£83
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£69
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£257
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£306
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£11
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£75



Floor-mounted bi-flow



Automatic restart



Multi-split branching



VRF Floor-Mounted Cabinet Indoor Unit

CODE			45	56	71	80
Performance						
Indoor Unit		MMF-	AP0156H1-E	AP0186H1-E	AP0246H1-E	AP0276H1-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8.0
	Heating Capacity	kW	5.0	6.3	8.0	9.0
UK	Cooling Total/Sensible	kW	4.1/3.2	5.1/3.9	6.4/5.0	7.3/5.6
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.055	0.055	0.089	0.089
	Run Current	A	0.38	0.38	0.60	0.60
	Start Current	A	0.53	0.53	0.84	0.84

Indoor Data		MMF-	AP0156H1-E	AP0186H1-E	AP0246H1-E	AP0276H1-E
Air Flow	High - Medium - Low	l/s	250 - 217 - 183	250 - 217 - 183	333 - 275 - 233	333 - 275 - 233
	High - Medium - Low	m³/h	900 - 780 - 660	900 - 780 - 660	1200 - 990 - 840	1200 - 990 - 840
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 37	46 - 42 - 37	49 - 45 - 39	49 - 45 - 39
	Power High - Medium - Low	dB(A)	61 - 57 - 52	61 - 57 - 52	64 - 60 - 54	64 - 60 - 54
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	46	46	47	47
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

INDOOR RETAIL PRICE	£1,600	£1,698	£1,771	£1,824
----------------------------	---------------	---------------	---------------	---------------

CODE			112	140	160
Performance					
Indoor Unit		MMF-	AP0366H1-E	AP0486H1-E	AP0566H1-E
Capacity Code		hp	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	11.2	14.0	16.0
	Heating Capacity	kW	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	10.2/7.6	12.7/9.3	14.5/10.8
	Heating	kW	8.5	10.9	12.2
Electrical	Power Input	kW	0.135	0.160	0.160
	Run Current	A	0.90	1.10	1.10
	Start Current	A	1.26	1.54	1.54

Indoor Data		MMF-	AP0366H1-E	AP0486H1-E	AP0566H1-E
Air Flow	High - Medium - Low	l/s	533 - 450 - 383	600 - 481 - 433	600 - 481 - 433
	High - Medium - Low	m³/h	1920 - 1620 - 1380	2160 - 1730 - 1560	2160 - 1730 - 1560
Sound	Pressure High - Medium - Low	dB(A)	51 - 46 - 41	54 - 49 - 44	54 - 49 - 44
	Power High - Medium - Low	dB(A)	66 - 61 - 56	69 - 64 - 59	69 - 64 - 59
Unit	Height x Width x Depth	mm	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
	Weight	kg	62	62	62
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

INDOOR RETAIL PRICE	£1,877	£1,972	£2,071
----------------------------	---------------	---------------	---------------

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



Floor-mounted cabinet



Automatic restart



Multi-split branching



VRF Fresh Air Intake Indoor Unit

CODE		140		224		280	
Performance							
Indoor Unit		MMD-	AP0481HFE	AP0721HFE	AP0961HFE		
Capacity Code		hp	5.0	8.0	10.0		
Nominal	Cooling Capacity	kW	14.0	22.4	28.0		
	Heating Capacity	kW	8.9	13.9	17.4		
UK	Cooling Total/Sensible	kW	12.7/6.3	20.3/9.9	25.4/12.4		
	Heating	kW	6.0	9.4	11.8		
Operating Limits	Indoor Temperature Range	°C	16-27	16-27	16-27		
	Cooling Limit	°C	19	19	19		
	Ambient Cooling Fan Only	°C	≥ 5/≤ 19	≥ 5/≤ +19	≥ 5/≤ 19		
	Heating Limit	°C	≥ -3/≤ 15	≥ -3/≤ 15	≥ -3/≤ 15		
	Fan Stop Cooling - Heating	°C	≤ 3/≤ -5	≤ 3/≤ -5	≤ 3/≤ -5		
Electrical	Power Input	kW	0.280	0.450	0.520		
	Run Current	A	1.43	2.52	2.73		
	Start Current	A	3.50	7.00	7.00		
Indoor Data							
Air Flow		MMD-	AP0481HFE	AP0721HFE	AP0961HFE		
	Standard	l/s	300	467	583		
	Upper - Lower	l/s	333 - 217	517 - 333	650 - 417		
	Standard	m³/h	1080	1680	2100		
	Upper - Lower	m³/h	1188 - 756	1848 - 1176	2310 - 1470		
External Static Pressure	Standard	Pa	210	165	190		
	Upper - Lower	Pa	230 - 170	180 - 140	205 - 160		
Sound	Pressure High - Medium - Low	dB(A)	45 - 43 - 41	46 - 45 - 44	46 - 45 - 44		
	Power High - Medium - Low	dB(A)	65 - 63 - 61	66 - 65 - 64	66 - 65 - 64		
Unit	Height x Width x Depth	mm	492 x 892 x 1262	492 x 1392 x 1262	492 x 1392 x 1262		
	Weight	kg	93	144	144		
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	7/8 - 1/2	7/8 - 1/2		
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25	VP32/25		
Height Difference	Fresh Air Intake To Fresh Air Intake	m	±0.5	±0.5	±0.5		
	Fresh Air Intake To Indoor	m	±30	±30	±30		
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-15	220-240/1/50-15		
INDOOR RETAIL PRICE		£2,050		£3,394		£3,586	

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	£72
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12

Note: Connect to SMMS-u only. Maximum connected capacity 30% of outdoor capacity.



Concealed false ceiling installation



Automatic restart



Multi-split branching



VRF High-Wall Indoor Unit - 7 Series

CODE			10	17	22	28	36	50
Performance								
Indoor Unit		MMK-	UP0031HP-E	UP0051HP-E	UP0071HP-E	UP0091HP-E	UP0121HP-E	UP0151HP-E
Capacity Code		hp	0.3	0.6	0.8	1.0	1.3	1.7
Nominal	Cooling Capacity	kW	0.9	1.7	2.2	2.8	3.6	4.5
	Heating Capacity	kW	1.3	1.9	2.5	3.2	4.0	5.0
UK	Cooling Total/Sensible	kW	0.9/0.7	1.5/1.4	2.0/1.6	2.5/1.9	3.3/2.4	4.1/3.0
	Heating	kW	0.9	1.3	1.7	2.2	2.7	3.4
Electrical	Power Input	kW	0.015	0.015	0.015	0.016	0.017	0.028
	Run Current	A	0.15	0.15	0.16	0.17	0.18	0.26
	Start Current	A	0.19	0.19	0.20	0.21	0.22	0.35
Indoor Data								
Air Flow	High - Medium - Low	l/s	126 - 103 - 75	126 - 103 - 75	133 - 107 - 75	141 - 110 - 75	150 - 114 - 75	233 - 192 - 153
	High - Medium - Low	m³/h	455 - 370 - 270	455 - 370 - 270	480 - 385 - 270	510 - 395 - 270	540 - 410 - 270	840 - 690 - 550
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	33 - 29 - 25	35 - 30 - 25	36 - 31 - 25	37 - 32 - 25	40 - 36 - 32
	Power High - Medium - Low	dB(A)	48 - 44 - 40	48 - 44 - 40	50 - 45 - 40	51 - 46 - 40	52 - 47 - 40	55 - 51 - 47
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 1050 x 250
	Weight	kg	11	11	11	11	11	16
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14	16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)
INDOOR RETAIL PRICE			£596	£627	£637	£646	£658	£746

CODE			63	80	80	90	112
Performance							
Indoor Unit		MMK-	UP0181HP-E	UP0241HP-E	UP0271HP-E	UP0301HP-E	UP0361HP-E
Capacity Code		hp	2.0	2.5	3.0	3.2	4.0
Nominal	Cooling Capacity	kW	5.6	7.1	8.0	9	10
	Heating Capacity	kW	6.3	8.0	9.0	10	11.2
UK	Cooling Total/Sensible	kW	5.1/3.7	6.4/4.7	7.1/5.6	8.0/6.3	10.0/7.8
	Heating	kW	4.3	5.4	6.1	6.8	8.5
Electrical	Power Input	kW	0.032	0.050	0.034	0.054	0.066
	Run Current	A	0.29	0.40	0.03	0.05	0.06
	Start Current	A	0.38	0.50	0.34	0.50	0.60
Indoor Data							
Air Flow	High - Medium - Low	l/s	250 - 200 - 153	333 - 250 - 167	333 - 277 - 222	403 - 361 - 305	458 - 375 - 347
	High - Medium - Low	m³/h	900 - 720 - 550	1200 - 900 - 600	1200 - 1000 - 800	1500 - 1300 - 1100	1650 - 1350 - 1250
Sound	Pressure High - Medium - Low	dB(A)	41 - 37 - 32	45 - 39 - 33	45 - 41 - 39	48 - 44 - 41	50 - 45 - 43
	Power High - Medium - Low	dB(A)	56 - 52 - 47	60 - 54 - 48	60 - 56 - 54	63 - 59 - 56	65 - 60 - 58
Unit	Height x Width x Depth	mm	293 x 1050 x 250	293 x 1050 x 250	348 x 1200 x 280	348 x 1200 x 280	348 x 1200 x 280
	Weight	kg	16	16	21	21	21
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)
INDOOR RETAIL PRICE			£761	£838	£984	£1,035	£1,089

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12



VRF Smart Cassette Indoor Unit

CODE			28	36	45	56	71
Performance							
Indoor Unit		MMU-	UP0091H-E	UP0121H-E	UP0151H-E	UP0181H-E	UP0241H-E
Capacity Code		hp	1.0	1.3	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.5/2.0	3.3/2.5	4.1/3.0	5.1/3.8	6.4/4.6
	Heating	kW	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.020	0.020	0.018	0.026	0.042
	Run Current	A	0.18	0.18	0.20	0.26	0.38
	Start Current	A	0.27	0.27	0.30	0.39	0.57
Indoor Data							
Air Flow		MMU-	UP0091H-E	UP0121H-E	UP0151H-E	UP0181H-E	UP0241H-E
Air Flow	High - Medium - Low	l/s	235 - 213 -197	235 - 213 -197	294 - 256 -222	350 - 306 -261	439 - 361 -311
	High - Medium - Low	m³/h	846 - 768 - 708	846 - 768 - 708	1060 - 920 - 800	1260 - 1100 - 940	1580 - 1300 - 1120
Sound	Pressure High - Medium - Low	dB(A)	30 - 28 - 26	30 - 28 - 26	32 - 30 - 28	36 - 33 - 31	41 - 37 - 35
	Power High - Medium - Low	dB(A)	45 - 43 - 42	45 - 43 - 42	46 - 44 - 42	50 - 47 - 45	55 - 51 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	18	18	25	25	25
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U41PG(W)-E	kg	5	5	5	5	5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,449	£1,562	£1,710	£1,786	£1,837

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMU-	UP0271H-E	UP0301H-E	UP0361H-E	UP0481H-E	UP0561H-E
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.2	8.2/5.9	10.2/7.3	12.7/9.3	14.5/10.4
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.054	0.068	0.125	0.135	0.137
	Run Current	A	0.48	0.60	0.94	0.96	0.97
	Start Current	A	0.72	0.90	1.41	1.44	1.46
Indoor Data		MMU-	UP0271H-E	UP0301H-E	UP0361H-E	UP0481H-E	UP0561H-E
Air Flow	High - Medium - Low	l/s	492 - 383 - 347	539 - 422 - 389	607 - 443 - 350	628 - 483 - 380	628 - 495 - 390
	High - Medium - Low	m³/h	1770 - 1380 - 1250	1940 - 1520 - 1400	2184 - 1596 - 1260	2262 - 1740 - 1368	2262 - 1782 - 1404
Sound	Pressure High - Medium - Low	dB(A)	42 - 37 - 35	44 - 39 - 37	45 - 38 - 32	46 - 39 - 33	46 - 40 - 35
	Power High - Medium - Low	dB(A)	56 - 51 - 49	58 - 53 - 51	60 - 53 - 48	61 - 54 - 49	61 - 55 - 51
Unit	Height x Width x Depth	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	25	25	25	25	25
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U41PG(W)-E	kg	5	5	5	5	5
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,866	£1,920	£1,976	£2,075	£2,215

Accessories

RBC-AMSU51-ES	Remote Controller	Full control including service functions	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
RBC-AXU41U-E	Smart Cassette Corner	Replacement corner pocket with built-in receiver and remote controller	£197
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Individual louvre control



Automatic restart



Louvre control



Multi-split branching



VRF 4-Way Compact Cassette Indoor Unit

CODE			17	22	28	36	45	56
Performance								
Indoor Unit		MMU-	UP0051MH-E	UP0071MH-E	UP0091MH-E	UP0121MH-E	UP0151MH-E	UP0181MH-E
Capacity Code		hp	0.6	0.8	1.0	1.3	1.7	2.0
Nominal	Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6
	Heating Capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible	kW	1.5/1.3	2.0/1.7	2.5/2.1	3.3/2.5	4.1/3.1	5.1/3.9
	Heating	kW	1.3	1.3	1.7	2.2	2.7	3.4
Electrical	Power Input	kW	0.016	0.023	0.025	0.027	0.030	0.052
	Run Current	A	0.16	0.23	0.24	0.25	0.28	0.46
	Start Current	A	0.28	0.41	0.43	0.44	0.50	0.80
Indoor Data		MMU-	UP0051MH-E	UP0071MH-E	UP0091MH-E	UP0121MH-E	UP0151MH-E	UP0181MH-E
Air Flow	High - Medium - Low	l/s	120 - 112 - 102	153 - 128 - 105	158 - 130 - 105	165 - 140 - 112	183 - 153 - 130	233 - 167 - 145
	High - Medium - Low	m³/h	430 - 400 - 365	552 - 462 - 378	570 - 468 - 378	594 - 504 - 402	660 - 552 - 468	840 - 642 - 522
Sound	Pressure High - Medium - Low	dB(A)	32 - 30 - 29	37 - 33 - 29	38 - 33 - 29	38 - 34 - 30	40 - 35 - 31	47 - 39 - 34
	Power High - Medium - Low	dB(A)	47 - 45 - 44	52 - 48 - 44	53 - 48 - 44	53 - 49 - 45	55 - 50 - 46	62 - 54 - 49
Unit	Height x Width x Depth	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
	Weight	kg	15	15	15	15	15	15
Panel	Height x Width x Depth	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	2.5	2.5	2.5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP20	VP20	VP20	VP20	VP20	VP20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3	220-240/1/50-3
INDOOR RETAIL PRICE			£1,155	£1,178	£1,247	£1,289	£1,346	£1,417

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
RBC-AXU31UM-E	4-Way Compact Cassette Corner	Replacement corner pocket with built-in receiver and remote controller	£131
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



Standard 600 x 600 ceiling size



VRF 4-Way Cassette Indoor Unit

CODE			28	36	45	56	71
Performance							
Indoor Unit		MMU-	UP0091HP-E	UP0121HP-E	UP0151HP-E	UP0181HP-E	UP0241HP-E
Capacity Code		hp	1.0	1.3	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.5/2.0	3.3/2.5	4.1/3.0	5.1/3.8	6.4/4.6
	Heating	kW	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.021	0.021	0.023	0.026	0.036
	Run Current	A	0.23	0.23	0.27	0.29	0.38
	Start Current	A	0.30	0.30	0.33	0.36	0.42
Indoor Data							
Air Flow	High - Medium - Low	l/s	222 - 203 - 188	222 - 203 - 188	258 - 230 - 220	292 - 255 - 222	358 - 255 - 222
	High - Medium - Low	m³/h	800 - 730 - 680	800 - 730 - 680	930 - 830 - 790	1050 - 920 - 800	1290 - 920 - 800
Sound	Pressure High - Medium - Low	dB(A)	30 - 29 - 27	30 - 29 - 27	31 - 29 - 27	32 - 29 - 27	35 - 31 - 28
	Power High - Medium - Low	dB(A)	45 - 44 - 42	45 - 44 - 42	46 - 44 - 42	47 - 44 - 42	50 - 46 - 43
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
	Weight	kg	20	20	20	20	20
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U32PGP-E	kg	4	4	4	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,151	£1,178	£1,231	£1,257	£1,303

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMU-	UP0271HP-E	UP0301HP-E	UP0361HP-E	UP0481HP-E	UP0561HP-E
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.2	8.2/5.9	10.2/7.3	12.7/9.3	14.5/10.4
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.036	0.043	0.088	0.112	0.112
	Run Current	A	0.38	0.43	0.78	0.88	0.88
	Start Current	A	0.42	0.59	0.87	1.23	1.26
Indoor Data							
Air Flow	High - Medium - Low	l/s	358 - 255 - 222	367 - 305 - 237	547 - 397 - 297	592 - 397 - 313	592 - 422 - 342
	High - Medium - Low	m³/h	1290 - 920 - 800	1320 - 1100 - 850	1970 - 1430 - 1070	2130 - 1430 - 1130	2130 - 1520 - 1230
Sound	Pressure High - Medium - Low	dB(A)	35 - 31 - 28	38 - 33 - 30	43 - 38 - 32	46 - 38 - 33	46 - 40 - 33
	Power High - Medium - Low	dB(A)	50 - 46 - 43	53 - 48 - 45	58 - 53 - 47	61 - 53 - 48	61 - 55 - 48
Unit	Height x Width x Depth	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Weight	kg	20	20	25	25	25
Panel	Height x Width x Depth	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
	Weight RBC-U32PGP-E	kg	4	4	4	4	4
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,505	£1,624	£1,704	£1,770	£1,968

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
RBC-AXU31U-E	4-Way Cassette Corner	Replacement corner pocket with built-in receiver and remote controller	£202
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86
TCB-PLFC1UPE-120	Filter Kit	PM2.5 after pre-filter 4-way cassette (6 x filters)	£1,287
TCB-PLFC2UPE-80	Filter Kit	PM2.5 before pre-filter 4-way cassette (4 x filters)	£1,637



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Individual louvre control



Automatic restart



Louvre control



Multi-split branching



VRF 2-Way Cassette Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MMU-	UP0071WH-E	UP0091WH-E	UP0121WH-E	UP0151WH-E	UP0181WH-E	UP0241WH-E
Capacity Code		hp	0.8	1.0	1.3	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.5	2.5/1.9	3.3/2.4	4.1/2.9	5.1/3.7	6.4/4.6
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.029	0.029	0.029	0.030	0.044	0.054
	Run Current	A	0.22	0.22	0.22	0.22	0.29	0.39
	Start Current	A	0.32	0.32	0.32	0.35	0.44	0.60
Indoor Data		MMU-	UP0071WH-E	UP0091WH-E	UP0121WH-E	UP0151WH-E	UP0181WH-E	UP0241WH-E
Air Flow	High - Medium - Low	l/s	155 - 138 - 125	155 - 138 - 125	155 - 138 - 125	167 - 148 - 125	250 - 208 - 172	292 - 233 - 205
	High - Medium - Low	m³/h	558 - 498 - 450	558 - 498 - 450	558 - 498 - 450	600 - 534 - 450	900 - 750 - 618	1050 - 840 - 738
Sound	Pressure High - Medium - Low	dB(A)	34 - 32 - 30	34 - 32 - 30	34 - 32 - 30	35 - 33 - 30	35 - 33 - 30	38 - 35 - 33
	Power High - Medium - Low	dB(A)	49 - 47 - 45	49 - 47 - 45	49 - 47 - 45	50 - 48 - 45	50 - 48 - 45	53 - 50 - 48
Unit	Height x Width x Depth	mm	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	345 x 1180 x 570	345 x 1180 x 570
	Weight	kg	19	19	19	19	26	26
Panel	Type	RBC-	UW283PG(W)-E	UW283PG(W)-E	UW283PG(W)-E	UW283PG(W)-E	UW803PG(W)-E	UW803PG(W)-E
	Height x Width x Depth	mm	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1415 x 680	20 x 1415 x 680
	Weight	kg	10	10	10	10	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1.530	£1.571	£1.609	£1.662	£1.891	£1.981

CODE			80	90	112	140	160
Performance							
Indoor Unit		MMU-	UP0271WH-E	UP0301WH-E	UP0361WH-E	UP0481WH-E	UP0561WH-E
Capacity Code		hp	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	8.0	9.0	11.2	14.0	16.0
	Heating Capacity	kW	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	7.3/5.0	8.2/5.4	10.2/7.3	12.7/8.5	14.5/9.4
	Heating	kW	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input	kW	0.054	0.064	0.073	0.088	0.117
	Run Current	A	0.39	0.46	0.53	0.59	0.81
	Start Current	A	0.60	0.68	0.79	0.89	1.22
Indoor Data							
Air Flow	High - Medium - Low	l/s	292 - 233 - 205	350 - 250 - 217	483 - 398 - 328	500 - 412 - 342	567 - 438 - 367
	High - Medium - Low	m³/h	1050 - 840 - 738	1260 - 900 - 780	1740 - 1434 - 1182	1800 - 1482 - 1230	2040 - 1578 - 1320
Sound	Pressure High - Medium - Low	dB(A)	38 - 35 - 33	40 - 37 - 34	42 - 39 - 36	43 - 40 - 37	46 - 42 - 39
	Power High - Medium - Low	dB(A)	53 - 50 - 48	55 - 52 - 49	57 - 54 - 51	58 - 55 - 52	61 - 57 - 54
Unit	Height x Width x Depth	mm	345 x 1180 x 570	345 x 1180 x 570	345 x 1600 x 570	345 x 1600 x 570	345 x 1600 x 570
	Weight	kg	26	26	36	36	36
Panel	Type	RBC-	UW803PG(W)-E	UW803PG(W)-E	UW1403PG(W)-E	UW1403PG(W)-E	UW1403PG(W)-E
	Height x Width x Depth	mm	20 x 1415 x 680	20 x 1415 x 680	20 x 1835 x 680	20 x 1835 x 680	20 x 1835 x 680
	Weight	kg	14	14	14	14	14
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£2,220	£2,238	£2,662	£2,877	£3,113

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
RBC-AX31UW-E	2-Way Cassette Receiver	Replacement receiver and remote controller	£239
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



VRF 1-Way Cassette Indoor Unit

CODE			10	17	22	28	36	45
Performance								
Indoor Unit		MMU-	UP0031YHP-E	UP0051YHP-E	UP0071YHP-E	UP0091YHP-E	UP0121YHP-E	UP0151YHP-E
Capacity Code		hp	0.3	0.6	0.8	1.0	1.3	1.7
Nominal	Cooling Capacity	kW	0.9	1.7	2.2	2.8	3.6	4.5
	Heating Capacity	kW	1.3	1.9	2.5	3.2	4.0	5.0
UK	Cooling Total/Sensible	kW	0.8/0.6	1.5/1.4	2.0/1.6	2.5/1.9	3.3/2.4	4.1/2.9
	Heating	kW	0.9	1.3	1.7	2.2	2.7	3.4
Electrical	Power Input	kW	0.015	0.015	0.017	0.018	0.018	0.025
	Run Current	A	0.15	0.15	0.18	0.19	0.20	0.24
	Start Current	A	0.40	0.40	0.40	0.40	0.40	0.28
Indoor Data								
Air Flow	High - Medium - Low	l/s	133 - 102 - 75	133 - 102 - 75	150 - 133 - 117	150 - 133 - 117	150 - 133 - 117	208 - 175 - 139
	High - Medium - Low	m³/h	480 - 370 - 270	480 - 370 - 270	500 - 390 - 270	520 - 410 - 290	540 - 420 - 290	750 - 630 - 500
Sound	Pressure High - Medium - Low	dB(A)	37 - 33 - 25	37 - 33 - 25	38 - 34 - 25	39 - 35 - 26	40 - 36 - 26	39 - 36 - 33
	Power High - Medium - Low	dB(A)	52 - 48 - 40	52 - 48 - 40	53 - 49 - 40	54 - 50 - 41	55 - 51 - 41	54 - 51 - 48
Unit	Height x Width x Depth	mm	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450	150 x 1180 x 450
	Weight	kg	14	14	14	14	14	15
Panel	Type	RBC-	UY32P-E	UY32P-E	UY32P-E	UY32P-E	UY32P-E	UY42P-E
	Height x Width x Depth	mm	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530	30 x 1410 x 530
	Weight	kg	4	4	4	4	4	5
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1.338	£1.369	£1.676	£1.720	£1.763	£1.734

CODE			56	71	80	45	56	71
Performance								
Indoor Unit		MMU-	UP0181YHP-E	UP0241YHP-E	UP0271YHP-E	UP0151SH-E	UP0181SH-E	UP0241SH-E
Capacity Code		hp	2.0	2.5	3.0	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	5.6	7.1	8.0	4.5	5.6	7.1
	Heating Capacity	kW	6.3	8.0	9.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	5.1/3.7	6.4/4.6	7.3/5.0	4.1/3.0	5.1/3.7	6.4/4.7
	Heating	kW	4.3	5.4	9.0	3.4	4.3	5.4
Electrical	Power Input	kW	0.027	0.042	0.050	0.042	0.046	0.075
	Run Current	A	0.26	0.34	0.41	0.34	0.37	0.62
	Start Current	A	0.30	0.38	0.45	0.51	0.54	0.80
Indoor Data								
Air Flow	High - Medium - Low	l/s	222 - 181 - 139	261 - 211 - 167	278 - 239 - 200	208 - 192 - 175	217 - 200 - 183	317 - 267 - 225
	High - Medium - Low	m³/h	800 - 650 - 500	940 - 760 - 600	1000 - 860 - 720	750 - 690 - 630	780 - 720 - 660	1140 - 960 - 810
Sound	Pressure High - Medium - Low	dB(A)	40 - 37 - 33	46 - 42 - 37	47 - 44 - 41	37 - 35 - 32	38 - 36 - 34	45 - 41 - 37
	Power High - Medium - Low	dB(A)	55 - 52 - 48	61 - 57 - 52	62 - 59 - 56	52 - 50 - 47	53 - 51 - 49	60 - 56 - 52
Unit	Height x Width x Depth	mm	150 x 1180 x 450	150 x 1180 x 450	150 x 1180 x 450	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710
	Weight	kg	15	16	16	21	21	22
Panel	Type	RBC-	UY42P-E	UY42P-E	UY42P-E	US21PGE	US21PGE	US21PGE
	Height x Width x Depth	mm	30 x 1410 x 530	30 x 1410 x 530	30 x 1410 x 530	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800
	Weight	kg	5	5	5	5.5	5.5	5.5
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	1/2 - 1/4	1/2 - 1/4	1/2 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,929	£2,028	£2,095	£1,863	£2,075	£2,182

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
RBC-AXU31C-E	1-Way Cassette Receiver	Replacement receiver and remote controller	£222
TCB-EAPC1UYHP-E	Air Purifier Kit	1-Way Cassette models 3-12	£172
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



False ceiling installation



Anti-dust pre-filter



Built-in drain pump



Automatic restart



Louvre control



Multi-split branching



VRF Slim Ducted Indoor Unit

CODE			10	17	22	28	36
Performance							
Indoor Unit		MMD-	UP0031SPHY-E	UP0051SPHY-E	UP0071SPHY-E	UP0091SPHY-E	UP0121SPHY-E
Capacity Code		hp	0.3	0.6	0.8	1.0	1.3
Nominal	Cooling Capacity	kW	0.9	1.7	2.2	2.8	3.6
	Heating Capacity	kW	1	1.9	2.5	3.2	4.0
UK	Cooling Total/Sensible	kW	0.8/0.6	1.5/1.1	2.0/1.6	2.5/2.0	3.3/2.5
	Heating	kW	0.7	1.3	1.7	2.2	2.7
Electrical	Power Input	kW	0.018	0.020	0.026	0.029	0.031
	Run Current	A	0.34	0.36	0.40	0.42	0.44
	Start Current	A	0.60	0.62	0.69	0.73	0.77
Indoor Data		MMD-	UP0031SPHY-E	UP0051SPHY-E	UP0071SPHY-E	UP0091SPHY-E	UP0121SPHY-E
Air Flow	High - Medium - Low	l/s	114 - 103 - 97	125 - 114 - 106	150 - 128 - 111	158 - 139 - 117	167 - 144 - 122
	High - Medium - Low	m³/h	410 - 370 - 350	450 - 410 - 380	540 - 460 - 400	570 - 500 - 420	600 - 520 - 440
External Static Pressure	Standard	Pa	10	10	10	10	10
	Maximum	Pa	50	50	50	50	50
Sound pressure	Back Inlet High - Medium - Low	dB(A)	29 - 27 - 25	30 - 28 - 26	31 - 29 - 26	32 - 29 - 26	33 - 30 - 27
	Under Inlet High - Medium - Low	dB(A)	37 - 35 - 32	39 - 37 - 34	41 - 39 - 35	42 - 40 - 36	44 - 40 - 37
Sound power	Back Inlet High - Medium - Low	dB(A)	46 - 44 - 42	49 - 46 - 44	52 - 49 - 45	54 - 50 - 46	54 - 50 - 46
	Under Inlet High - Medium - Low	dB(A)	51 - 49 - 47	53 - 51 - 48	54 - 49 - 46	56 - 52 - 49	57 - 53 - 49
Unit	Height x Width x Depth	mm	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450
	Weight	kg	15	15	15	15	15
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25
	Lift Pump Drain Height from Unit Base	mm	< 550	< 550	< 550	< 550	< 550
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£736	£740	£750	£764	£785

CODE			45	56	71	80
Performance						
Indoor Unit		MMD-	UP0151SPHY-E	UP0181SPHY-E	UP0241SPHY-E	UP0271SPHY-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8.0
	Heating Capacity	kW	5.0	6.3	8.0	9.0
UK	Cooling Total/Sensible	kW	4.1/2.9	5.1/3.5	6.4/4.4	7.3/4.9
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.035	0.044	0.067	0.072
	Run Current	A	0.47	0.53	0.59	0.74
	Start Current	A	0.82	0.92	1.21	1.30
Indoor Data		MMD-	UP0151SPHY-E	UP0181SPHY-E	UP0241SPHY-E	UP0271SPHY-E
Air Flow	High - Medium - Low	l/s	192 - 178 - 153	217 - 203 - 181	300 - 264 - 239	317 - 272 - 253
	High - Medium - Low	m³/h	690 - 640 - 550	780 - 730 - 650	1080 - 950 - 860	1140 - 980 - 910
External Static Pressure	Standard	Pa	10	10	10	10
	Upper - Lower	Pa	50	50	50	50
Sound pressure	Back Inlet High - Medium - Low	dB(A)	33 - 30 - 28	34 - 32 - 29	36 - 33 - 30	37 - 34 - 32
	Under Inlet High - Medium - Low	dB(A)	42 - 39 - 37	44 - 42 - 39	47 - 44 - 41	48 - 45 - 43
Sound power	Back Inlet High - Medium - Low	dB(A)	52 - 50 - 46	56 - 54 - 51	60 - 56 - 53	61 - 58 - 55
	Under Inlet High - Medium - Low	dB(A)	55 - 53 - 49	57 - 55 - 52	64 - 60 - 58	65 - 61 - 59
Unit	Height x Width x Depth	mm	210 x 900 x 450	210 x 900 x 450	210 x 1100 x 450	210 x 1100 x 450
	Weight	kg	19	19	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25
	Lift Pump Drain Height from Unit Base	mm	< 650	< 650	<750	< 750
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£799	£839	£906	£978

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
RBC-AXU31-E	Indoor Receiver	Independent receiver and WH-L11SE remote controller for all models	£287
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF Standard Ducted Indoor Unit

CODE				22	28	36	45	56	
Performance									
Indoor Unit			MMD-	UP0051BHP-E	UP0071BHP-E	UP0091BHP-E	UP0121BHP-E	UP0151BHP-E	UP0181BHP-E
Capacity Code			hp	0.6	0.8	1.0	1.3	1.7	2.0
Nominal	Cooling Capacity		kW	1.7	2.2	2.8	3.6	4.5	5.6
	Heating Capacity		kW	1.9	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible		kW	1.5/1.3	2.0/1.7	2.5/2.1	3.2/2.4	4.0/3.3	5.0/3.7
	Heating		kW	1.3	1.7	2.2	2.7	3.4	4.3
Electrical	Power Input		kW	0.055	0.055	0.060	0.060	0.110	0.110
	Run Current		A	0.35	0.35	0.38	0.38	0.70	0.70
	Start Current		A	0.55	0.55	0.58	0.58	1.10	1.10

Indoor Data			MMD-	UP0051BHP-E	UP0071BHP-E	UP0091BHP-E	UP0121BHP-E	UP0151BHP-E	UP0181BHP-E
Air Flow	High - Medium - Low		l/s	150 - 125 - 100	150 - 125 - 100	158 - 133 - 108	158 - 133 - 108	256 - 183 - 150	256 - 183 - 150
	High - Medium - Low		m³/h	540 - 450 - 360	540 - 450 - 360	570 - 480 - 390	570 - 480 - 390	920 - 660 - 540	920 - 660 - 540
External Static Pressure	Standard		Pa	30	30	30	30	30	30
	Upper - Lower		Pa	150	150	150	150	150	150
Sound	Pressure High - Medium - Low		dB(A)	29 - 26 - 23	29 - 26 - 23	30 - 26 - 23	30 - 26 - 23	33 - 29 - 25	33 - 29 - 25
	Power High - Medium - Low		dB(A)	44 - 41 - 38	44 - 41 - 38	45 - 41 - 38	45 - 41 - 38	48 - 44 - 40	48 - 44 - 40
Unit	Height x Width x Depth		mm	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750
	Weight		kg	23	23	23	23	23	23
Pipe Connection	Flare Connections (gas - liquid)		inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID		mm	32/25	32/25	32/25	32/25	32/25	32/25
	Lift Pump Drain Height from Unit Base		mm	< 850	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size		V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

INDOOR RETAIL PRICE	£776	£817	£794	£839	£863	£921
----------------------------	-------------	-------------	-------------	-------------	-------------	-------------

CODE			71	80	90	112	140	160	
Performance									
Indoor Unit			MMD-	UP0241BHP-E	UP0271BHP-E	UP0301BHP-E	UP0361BHP-E	UP0481BHP-E	UP0561BHP-E
Capacity Code			hp	2.5	3.0	3.2	4.0	5.0	6.0
Nominal	Cooling Capacity		kW	7.1	8.0	9.0	11.2	14.0	16.0
	Heating Capacity		kW	8.0	9.0	10.0	12.5	16.0	18.0
UK	Cooling Total/Sensible		kW	6.3/4.8	7.1/5.4	8.0/6.1	10.0/7.7	12.3/9.2	14.3/10.2
	Heating		kW	5.4	6.1	6.8	8.5	10.9	12.2
Electrical	Power Input		kW	0.135	0.135	0.160	0.220	0.290	0.290
	Run Current		A	0.80	0.80	0.95	1.29	1.70	1.70
	Start Current		A	1.20	1.20	1.35	2.09	2.50	2.50

Indoor Data			MMD-	UP0241BHP-E	UP0271BHP-E	UP0301BHP-E	UP0361BHP-E	UP0481BHP-E	UP0561BHP-E
Air Flow	High - Medium - Low		l/s	3667 - 303 - 242	3667 - 303 - 242	403 - 333 - 267	533 - 450 - 383	653 - 533 - 417	653 - 533 - 417
	High - Medium - Low		m³/h	1320 - 1090 - 870	1320 - 1090 - 870	1450 - 1200 - 960	1920 - 1620 - 1380	2350 - 1920 - 1500	2350 - 1920 - 1500
External Static Pressure	Standard		Pa	40	40	40	50	50	50
	Upper - Lower		Pa	150	150	150	150	150	150
Sound	Pressure High - Medium - Low		dB(A)	33 - 30 - 27	33 - 30 - 27	36 - 31 - 27	36 - 34 - 31	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low		dB(A)	51 - 46 - 42	51 - 46 - 42	51 - 46 - 42	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth		mm	275 x 1000 x 750	275 x 1000 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight		kg	30	30	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)		inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID		mm	32/25	32/25	32/25	32/25	32/25	32/25
	Lift Pump Drain Height from Unit Base		mm	< 850	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size		V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

INDOOR RETAIL PRICE	£963	£1,067	£1,139	£1,306	£1,398	£1,484
----------------------------	-------------	---------------	---------------	---------------	---------------	---------------

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
RBC-AXU31-E	Indoor Receiver	Independent receiver and WH-L11SE remote controller for all models	£287
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	MMD-UP007#-018#HP1-E	£128
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	MMD-UP024#-030#BHP1-E	£150
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	MMD-UP036#-056#BHP1-E	£191



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF High-Static Ducted Indoor Unit

CODE			56	71	80	112
Performance						
Indoor Unit		MMD-	UP0181HP-E	UP0241HP-E	UP0271HP-E	UP0361HP-E
Capacity Code		hp	2.0	2.5	3.0	4.0
Nominal	Cooling Capacity	kW	5.6	7.1	8.0	11.2
	Heating Capacity	kW	6.3	8.0	9.0	12.5
UK	Cooling Total/Sensible	kW	5.1/3.7	6.4/4.9	7.3/5.5	10.2/7.8
	Heating	kW	4.3	5.4	6.1	8.5
Electrical	Power Input	kW	0.125	0.140	0.190	0.230
	Run Current	A	0.82	0.92	1.16	1.39
	Start Current	A	1.12	1.22	1.46	1.89

Indoor Data		MMD-	UP0181HP-E	UP0241HP-E	UP0271HP-E	UP0361HP-E
Air Flow	High - Medium - Low	l/s	306 - 275 - 250	333 - 292 - 267	417 - 375 - 333	533 - 433 - 372
	High - Medium - Low	m³/h	1100 - 990 - 900	1200 - 1050 - 960	1500 - 1350 - 1200	1920 - 1560 - 1340
External Static Pressure	Standard	Pa	100	100	100	100
	Upper - Lower	Pa	200	200	200	200
Sound	Pressure High - Medium - Low	dB(A)	37 - 33 - 31	38 - 34 - 31	43 - 41 - 38	41 - 37 - 34
	Power High - Medium - Low	dB(A)	52 - 48 - 46	53 - 49 - 46	58 - 56 - 53	56 - 52 - 49
Unit	Height x Width x Depth	mm	298 x 1000 x 750	298 x 1000 x 750	298 x 1000 x 750	298 x 1400 x 750
	Weight	kg	34	34	34	43
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10	220-240/1/50-10

INDOOR RETAIL PRICE

£1,277

£1,407

£1,469

£1,539

CODE			140	160	224	280
Performance						
Indoor Unit		MMD-	UP0481HP-E	UP0561HP-E	UP0721HP-E1	UP0961HP-E1
Capacity Code		hp	5.0	6.0	8.0	10.0
Nominal	Cooling Capacity	kW	14.0	16.0	22.4	28.0
	Heating Capacity	kW	16.0	18.0	25.0	31.5
UK	Cooling Total/Sensible	kW	12.7/9.3	14.5/10.6	20.3/14.1	25.4/17.3
	Heating	kW	10.9	12.2	17.0	21.4
Electrical	Power Input	kW	0.300	0.400	0.540	0.790
	Run Current	A	1.81	2.48	2.83	3.77
	Start Current	A	2.41	3.08	7.80	7.80

Indoor Data		MMD-	UP0481HP-E	UP0561HP-E	UP0721HP-E1	UP0961HP-E1
Air Flow	High - Medium - Low	l/s	650 - 550 - 471	767 - 650 - 533	1056 - 889 - 694	1333 - 1167 - 972
	High - Medium - Low	m³/h	2340 - 1980 - 1695	2760 - 2340 - 1920	3800 - 3200 - 2500	4800 - 4200 - 3500
External Static Pressure	Standard	Pa	100	100	150	150
	Upper - Lower	Pa	200	200	250	250
Sound	Pressure High - Medium - Low	dB(A)	44 - 41 - 38	46 - 44 - 41	44 - 40 - 36	46 - 42 - 38
	Power High - Medium - Low	dB(A)	59 - 56 - 53	61 - 59 - 56	59 - 55 - 51	61 - 57 - 53
Unit	Height x Width x Depth	mm	298 x 1400 x 750	298 x 1400 x 750	448 x 1400 x 900	448 x 1400 x 900
	Weight	kg	43	43	97	97
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	7/8 - 1/2	7/8 - 1/2
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16	220-240/1/50-16

INDOOR RETAIL PRICE

£1,703

£1,823

£2,744

£2,898

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
RBC-AXU31-E	Indoor Receiver	Independent receiver and WH-L11SE remote controller for all models	£287
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
TCB-LK801D-E	Filter Kit	Long Life Filter Kit MMD-UP018#-027#BHP1-E	£64
TCB-LK1401D-E	Filter Kit	Long Life Filter Kit MMD-UP036#-056#BHP1-E	£83



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF Vertical Ducted Indoor Unit

CODE			17	22	28	36	45	56
Performance								
Indoor Unit		MMD-	UP0051BHP-E	UP0071BHP-E	UP0091BHP-E	UP0121BHP-E	UP0151BHP-E	UP0181BHP-E
Capacity Code		hp	0.6	0.8	1.0	1.3	1.7	2.0
Nominal	Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6
	Heating Capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible	kW	1.5/1.3	2.0/1.7	2.5/2.1	3.2/2.4	4.0/3.3	5.0/3.7
	Heating	kW	1.3	1.7	2.2	2.7	3.4	4.3
Electrical	Power Input	kW	0.055	0.055	0.060	0.060	0.110	0.110
	Run Current	A	0.35	0.35	0.38	0.38	0.70	0.70
	Start Current	A	0.55	0.55	0.58	0.58	1.10	1.10

Indoor Data		MMD-	UP0051BHP-E	UP0071BHP-E	UP0091BHP-E	UP0121BHP-E	UP0151BHP-E	UP0181BHP-E
Air Flow	High - Medium - Low	l/s	150 - 125 - 100	150 - 125 - 100	158 - 133 - 108	158 - 133 - 108	256 - 183 - 150	256 - 183 - 150
	High - Medium - Low	m³/h	540 - 450 - 360	540 - 450 - 360	570 - 480 - 390	570 - 480 - 390	920 - 660 - 540	920 - 660 - 540
External Static Pressure	Standard	Pa	30	30	30	30	30	30
	Upper - Lower	Pa	150	150	150	150	150	150
Sound	Pressure High - Medium - Low	dB(A)	29 - 26 - 23	29 - 26 - 23	30 - 26 - 23	30 - 26 - 23	33 - 29 - 25	33 - 29 - 25
	Power High - Medium - Low	dB(A)	44 - 41 - 38	44 - 41 - 38	45 - 41 - 38	45 - 41 - 38	48 - 44 - 40	48 - 44 - 40
Unit	Height x Width x Depth	mm	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275	750 x 700 x 275
	Weight	kg	23	23	23	23	23	23
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25	32/25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

RBC-VCK1 VERTICAL CONVERSION KIT	£521	£521	£521	£521	£521	£521
INDOOR UNIT	£776	£817	£794	£839	£863	£921
INDOOR RETAIL PRICE	£1,297	£1,338	£1,315	£1,360	£1,384	£1,442

CODE		71		80		90		112		140		160	
Performance													
Indoor Unit		MMD-	UP0241BHP-E	UP0271BHP-E	UP0301BHP-E	UP0361BHP-E	UP0481BHP-E	UP0561BHP-E					
Capacity Code		hp	2.5	3.0	3.2	4.0	5.0	6.0					
Nominal	Cooling Capacity	kW	7.1	8.0	9.0	11.2	14.0	16.0					
	Heating Capacity	kW	8.0	9.0	10.0	12.5	16.0	18.0					
UK	Cooling Total/Sensible	kW	6.3/4.8	7.1/5.4	8.0/6.1	10.0/7.7	12.3/9.2	14.3/10.2					
	Heating	kW	5.4	6.1	6.8	8.5	10.9	12.2					
Electrical	Power Input	kW	0.135	0.135	0.160	0.220	0.290	0.290					
	Run Current	A	0.80	0.80	0.95	1.29	1.70	1.70					
	Start Current	A	1.20	1.20	1.35	2.09	2.50	2.50					

Indoor Data		MMD-	UP0241BHP-E	UP0271BHP-E	UP0301BHP-E	UP0361BHP-E	UP0481BHP-E	UP0561BHP-E
Air Flow	High - Medium - Low	l/s	3667 - 303 - 242	3667 - 303 - 242	403 - 333 - 267	533 - 450 - 383	653 - 533 - 417	653 - 533 - 417
	High - Medium - Low	m³/h	1320 - 1090 - 870	1320 - 1090 - 870	1450 - 1200 - 960	1920 - 1620 - 1380	2350 - 1920 - 1500	2350 - 1920 - 1500
External Static Pressure	Standard	Pa	40	40	40	50	50	50
	Upper - Lower	Pa	150	150	150	150	150	150
Sound	Pressure High - Medium - Low	dB(A)	33 - 30 - 27	33 - 30 - 27	36 - 31 - 27	36 - 34 - 31	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	51 - 46 - 42	51 - 46 - 42	51 - 46 - 42	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	750 x 1000 x 275	750 x 1000 x 275	750 x 1000 x 275	750 x 1400 x 275	750 x 1400 x 275	750 x 1400 x 275
	Weight	kg	30	30	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25	32/25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850	< 850
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5

RBC-VCK1 VERTICAL CONVERSION KIT	£521	£521	£521	£521	£521	£521
INDOOR UNIT	£963	£1,067	£1,139	£1,306	£1,398	£1,484
INDOOR RETAIL PRICE	£1,484	£1,588	£1,660	£1,827	£1,919	£2,005

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-AXU31-E	Indoor Receiver	Independent receiver and WH-L11SE remote controller for all models	£287
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	MMD-UP007#-018#BHP1-E	£128
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	MMD-UP024#-030#BHP1-E	£150
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	MMD-AP036#-056#BHP1-E	£191



Concealed false ceiling installation



Built-in drain pump



Automatic restart



Multi-split branching



VRF Ceiling-Suspended Indoor Unit - 8 Series

CODE			45	56	71	80
Performance						
Indoor Unit		MMC-	UP0151HP-E	UP0181HP-E	UP0241HP-E	UP0271HP-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8
	Heating Capacity	kW	5.0	6.3	8	9
UK	Cooling Total/Sensible	kW	4.1/3.0	5.1/3.7	6.4/4.8	7.3/5.3
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.033	0.034	0.067	0.067
	Run Current	A	0.38	0.39	0.68	0.68
	Start Current	A	0.54	0.55	0.97	0.97
Indoor Data						
Air Flow	High - Medium - Low	l/s	233 - 200 - 150	267 - 200 - 150	400 - 283 - 217	400 - 283 - 217
	High - Medium - Low	m³/h	840 - 690 - 540	960 - 720 - 540	1440 - 1020 - 750	1440 - 1020 - 750
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 28	37 - 35 - 28	41 - 36 - 29	41 - 36 - 29
	Power High - Medium - Low	dB(A)	51 - 49 - 43	52 - 50 - 43	56 - 51 - 44	56 - 51 - 44
Unit	Height x Width x Depth	mm	235 x 952 x 690	235 x 952 x 690	235 x 1270 x 690	235 x 1270 x 690
	Weight	kg	24	24	30	30
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	26/20	26/20	26/20	26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,304	£1,441	£1,527	£1,541

CODE			112	140	160
Performance					
Indoor Unit		MMC-	UP0361HP-E	UP0481HP-E	UP0561HP-E
Capacity Code		hp	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	11.2	14	16
	Heating Capacity	kW	12.5	16	18
UK	Cooling Total/Sensible	kW	10.2/7.2	12.7/9.3	14.5/9.4
	Heating	kW	8.5	10.9	12.2
Electrical	Power Input	kW	0.083	0.083	0.111
	Run Current	A	0.80	0.80	1.03
	Start Current	A	1.16	1.16	1.49
Indoor Data					
Air Flow	High - Medium - Low	l/s	517 - 383 - 283	517 - 433 - 333	567 - 467 - 350
	High - Medium - Low	m³/h	1860 - 1350 - 1020	1860 - 1530 - 1200	2040 - 1650 - 1260
Sound	Pressure High - Medium - Low	dB(A)	44 - 38 - 32	44 - 41 - 35	46 - 42 - 36
	Power High - Medium - Low	dB(A)	59 - 53 - 47	59 - 56 - 50	61 - 57 - 51
Unit	Height x Width x Depth	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	39	39	39
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	26/20	26/20	26/20
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,563	£1,591	£1,702

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
TCB-PCUC2E	Indoor Control Interface	Application control kit	£139
RBC-AXU31-E	Indoor Receiver	Replacement receiver and remote controller	£287
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



Ceiling installation



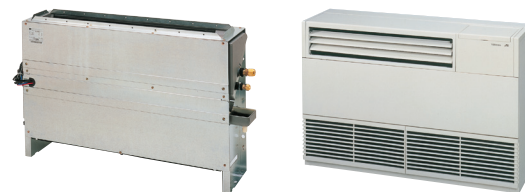
Drain connection both sides



Automatic restart



Multi-split branching



VRF Concealed-Chassis Indoor Unit

CODE			22	28	36	45	56	71
Performance								
Indoor Unit		MML-	UP0071BH-E	UP0091BH-E	UP0121BH-E	UP0151BH-E	UP0181BH-E	UP0241BH-E
Capacity Code		hp	0.8	1.0	1.3	1.7	2.0	2.5
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible	kW	2.0/1.3	2.5/1.5	3.3/2.1	4.1/2.7	5.1/3.3	6.4/4.2
	Heating	kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input	kW	0.058	0.058	0.058	0.096	0.096	0.110
	Run Current	A	0.27	0.27	0.27	0.46	0.46	0.51
	Start Current	A	0.60	0.60	0.60	0.80	0.80	1.00
Indoor Data		MML-	UP0071BH-E	UP0091BH-E	UP0121BH-E	UP0151BH-E	UP0181BH-E	UP0241BH-E
Air Flow	High - Medium - Low	l/s	128 - 111 - 83	128 - 111 - 83	128 - 111 - 83	206 - 167 - 136	206 - 167 - 136	264 - 219 - 178
	High - Medium - Low	m³/h	460 - 400 - 300	460 - 400 - 300	460 - 400 - 300	740 - 600 - 490	740 - 600 - 490	950 - 790 - 640
External Static Pressure	Standard	Pa	5	5	5	5	5	5
Sound	Pressure High - Medium - Low	dB(A)	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	36 - 34 - 32	42 - 37 - 33
	Power High - Medium - Low	dB(A)	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	51 - 49 - 47	57 - 52 - 48
Unit	Height x Width x Depth	mm	600 x 745 x 220	600 x 745 x 220	600 x 745 x 220	600 x 1045 x 220	600 x 1045 x 220	600 x 1045 x 220
	Weight	kg	21	21	21	28	28	28
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,064	£1,090	£1,124	£1,175	£1,250	£1,299

VRF Floor-Mounted Console Indoor Unit

CODE			22	28	36	45	56	71	
Performance									
Indoor Unit			MML-	UP0071H-E	UP0091H-E	UP0121H-E	UP0151H-E	UP0181H-E	UP0241H-E
Capacity Code			hp	0.8	1.0	1.3	1.7	2.0	2.5
Nominal	Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
UK	Cooling Total/Sensible		kW	2.0/1.3	2.5/1.5	3.3/2.1	3.8/2.5	5.1/3.3	6.4/4.2
	Heating		kW	1.7	2.2	2.7	3.4	4.3	5.4
Electrical	Power Input		kW	0.056	0.056	0.092	0.092	0.102	0.102
	Run Current		A	0.26	0.26	0.43	0.43	0.47	0.47
	Start Current		A	0.60	0.60	0.80	0.80	1.10	1.10
Indoor Data									
Air Flow	High - Medium - Low		l/s	133 - 117 - 100	133 - 117 - 100	250 - 217 - 180	250 - 217 - 180	300 - 267 - 217	300 - 267 - 217
	High - Medium - Low		m³/h	480 - 420 - 360	480 - 420 - 360	900 - 780 - 650	900 - 780 - 650	1080 - 930 - 780	1080 - 930 - 780
Sound	Pressure High - Medium - Low		dB(A)	39 - 37 - 35	39 - 37 - 35	45 - 41 - 38	45 - 41 - 38	49 - 44 - 39	49 - 44 - 39
	Power High - Medium - Low		dB(A)	54 - 52 - 50	54 - 52 - 50	60 - 56 - 53	60 - 56 - 53	64 - 59 - 54	64 - 59 - 54
Unit	Height x Width x Depth		mm	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230	630 x 950 x 230
	Weight		kg	37	37	37	37	40	40
Pipe Connection	Flare Connections (gas - liquid)		inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8
	Drain Pipe Connection OD/ID		mm	26/20	26/20	26/20	26/20	26/20	26/20
Power Supply	Suggested Fuse Size		V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE				£1,275	£1,306	£1,337	£1,405	£1,493	£1,558

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



Concealed false wall installation
(concealed chassis unit)



Floor-mounted console



Automatic restart



Multi-split branching



VRF Bi-Flow Console Indoor Unit

CODE			22	28	36	45	56
Performance							
Indoor Unit		MML-	UP0071NHP-E	UP0091NHP-E	UP0121NHP-E	UP0151NHP-E	UP0181NHP-E
Capacity Code		hp	0.8	1.0	1.3	1.7	2.0
Nominal	Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Heating Capacity	kW	2.5	3.2	4.0	5.0	6.3
UK	Cooling Total/Sensible	kW	2.0/1.6	2.5/1.9	3.3/2.4	4.1/2.9	5.1/3.6
	Heating	kW	1.7	2.2	2.7	3.4	4.3
Electrical	Power Input	kW	0.021	0.021	0.025	0.034	0.052
	Run Current	A	0.17	0.17	0.19	0.25	0.36
	Start Current	A	0.26	0.26	0.30	0.38	0.56
Indoor Data		MML-	UP0071NHP-E	UP0091NHP-E	UP0121NHP-E	UP0151NHP-E	UP0181NHP-E
Air Flow	High - Medium - Low	l/s	142 - 102 - 78	142 - 102 - 78	153 - 113 - 90	173 - 130 - 107	202 - 147 - 118
	High - Medium - Low	m³/h	510 - 366 - 282	510 - 366 - 282	552 - 408 - 324	624 - 468 - 384	726 - 528 - 426
Sound	Pressure High - Medium - Low	dB(A)	38 - 32 - 26	38 - 32 - 26	40 - 34 - 29	43 - 37 - 31	47 - 40 - 34
	Power High - Medium - Low	dB(A)	53 - 47 - 41	53 - 47 - 41	55 - 49 - 44	58 - 52 - 46	62 - 55 - 49
Unit	Height x Width x Depth	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
	Weight	kg	17	17	17	17	17
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	16/14	16/14	16/14	16/14	16/14
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
Remote Controller			WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)	WH-L11SE (Infra-Red)
INDOOR RETAIL PRICE			£1.222	£1.317	£1.411	£1.506	£1.563

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



Floor-mounted bi-flow



Automatic restart



Multi-split branching



VRF Floor-Mounted Cabinet Indoor Unit

CODE			45	56	71	80
Performance						
Indoor Unit		MMF-	UP0151H-E	UP0181H-E	UP0241H-E	UP0271H-E
Capacity Code		hp	1.7	2.0	2.5	3.0
Nominal	Cooling Capacity	kW	4.5	5.6	7.1	8.0
	Heating Capacity	kW	5.0	6.3	8.0	9.0
UK	Cooling Total/Sensible	kW	4.1/3.2	5.1/3.9	6.4/5.0	7.3/5.6
	Heating	kW	3.4	4.3	5.4	6.1
Electrical	Power Input	kW	0.053	0.053	0.087	0.087
	Run Current	A	0.38	0.38	0.58	0.58
	Start Current	A	0.50	0.50	0.75	0.75
Indoor Data						
Air Flow	High - Medium - Low	l/s	228 - 194 - 167	228 - 194 - 167	258 - 214 - 178	258 - 214 - 178
	High - Medium - Low	m³/h	820 - 700 - 600	820 - 700 - 600	930 - 770 - 640	930 - 770 - 640
Sound	Pressure High - Medium - Low	dB(A)	46 - 42 - 38	46 - 42 - 38	50 - 45 - 41	50 - 45 - 41
	Power High - Medium - Low	dB(A)	61 - 57 - 53	61 - 57 - 53	65 - 60 - 56	65 - 60 - 56
Unit	Height x Width x Depth	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210
	Weight	kg	46	46	47	47
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection	mm	20 male screw	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£1,753	£1,860	£1,940	£1,998

CODE			112	140	160
Performance					
Indoor Unit		MMF-	UP0361H-E	UP0481H-E	UP0561H-E
Capacity Code		hp	4.0	5.0	6.0
Nominal	Cooling Capacity	kW	11.2	14.0	16.0
	Heating Capacity	kW	12.5	16.0	18.0
UK	Cooling Total/Sensible	kW	10.2/7.6	12.7/9.3	14.5/10.8
	Heating	kW	8.5	10.9	12.2
Electrical	Power Input	kW	0.133	0.158	0.158
	Run Current	A	0.86	1.02	1.02
	Start Current	A	1.11	1.33	1.33
Indoor Data					
Air Flow	High - Medium - Low	l/s	461 - 394 - 325	489 - 411 - 375	489 - 411 - 375
	High - Medium - Low	m³/h	1660 - 1420 - 1170	1760 - 1480 - 1350	1760 - 1480 - 1350
Sound	Pressure High - Medium - Low	dB(A)	51 - 46 - 41	53 - 48 - 45	53 - 48 - 45
	Power High - Medium - Low	dB(A)	66 - 61 - 56	68 - 63 - 60	68 - 63 - 60
Unit	Height x Width x Depth	mm	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
	Weight	kg	61	61	61
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection OD/ID	mm	20 male screw	20 male screw	20 male screw
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£2,056	£2,160	£2,268

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12
TCB-TC41U-E	Remote Sensor	Room temperature sensing in conditioned space	£86



Floor-mounted cabinet



Automatic restart



Multi-split branching



VRF Fresh Air Intake Indoor Unit

CODE			140	224	280	335	400
Performance							
Indoor Unit		MMD-	UP0481HFP-E	UP0721HFP-E1	UP0961HFP-E1	UP1121HFP-E1	UP1281HFP-E1
Capacity Code		hp	5.0	8.0	10.0	12.0	14.0
Nominal	Cooling Capacity	kW	14.0	22.4	28.0	33.5	40.0
	Heating Capacity	kW	8.9	13.9	17.4	20.8	25.2
UK	Cooling Total	kW	7.9	12.3	15.3	18.4	22.3
	Heating	kW	10.8	16.8	21.0	25.2	30.6
Operating Limits	Indoor Temperature Range	°C	13-25/18-30	13-25/18-30	13-25/18-30	13-25/18-30	13-25/18-30
	Cooling Limit	°C	22	22	22	22	22
	Ambient Cooling Fan Only	°C	≥ 5/≤ 22	≥ 5/≤ 22	≥ 5/≤ 22	≥ 5/≤ 22	≥ 5/≤ 22
	Heating Limit	°C	≥ -10/≤ 15	≥ -10/≤ 15	≥ -10/≤ 15	≥ -10/≤ 15	≥ -10/≤ 15
	Fan Stop Cooling - Heating	°C	≤ 5/≤ -10	≤ 5/≤ -10	≤ 5/≤ -10	≤ 5/≤ -10	≤ 5/≤ -10
Electrical	Power Input	kW	0.110	0.160	0.200	0.250	0.330
	Run Current	A	0.77	0.86	1.07	1.30	1.83
	Start Current	A	2.01	7.80	7.80	7.80	7.80
Indoor Data							
Air Flow	Standard	l/s	300	467	583	700	850
	Upper - Lower	l/s	367 - 167	567 - 267	700 - 367	850 - 417	1,000 - 500
	Standard	m³/h	1080	1680	2100	2520	3060
	Upper - Lower	m³/h	1320 - 600	2040 - 960	2520 - 1320	3060 - 1500	3600 - 1800
External Static Pressure	Standard	Pa	100	100	100	100	100
	Upper - Lower	Pa	200 - 50	200 - 50	200 - 50	200 - 50	200 - 50
Sound	Pressure High - Medium - Low	dB(A)	38 - 35 - 31	38 - 36 - 33	39 - 36 - 33	40 - 37 - 34	42 - 38 - 35
	Power High - Medium - Low	dB(A)	53 - 50 - 46	53 - 51 - 48	54 - 51 - 48	55 - 52 - 49	57 - 53 - 50
Unit	Height x Width x Depth	mm	327 x 1430 x 750	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900
	Weight	kg	44	99	99	99	99
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	7/8 - 1/2	7/8 - 1/2	1-1/8 - 1/2	1-1/8 - 1/2
	Drain Pipe Connection OD/ID	mm	32/25	32/25	32/25	32/25	32/25
Height Difference	Fresh Air Intake To Fresh Air Intake	m	±0.5	±0.5	±0.5	±0.5	±0.5
	Fresh Air Intake To Indoor	m	±40	±40	±40	±40	±40
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-15	220-240/1/50-15	220-240/1/50-15	220-240/1/50-15
INDOOR RETAIL PRICE			£2,050	£3,394	£3,586	£3,837	£4,104

Accessories

RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	£9
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMTU31-E remote or any central controller	£12

Note: Connect to SMMS-u only. Maximum connected capacity 30% of outdoor capacity.



Concealed false ceiling installation



Automatic restart



Multi-split branching



VRF Hot Water Module Indoor Unit

The VRF Hot Water Module enables the production of hot water from a standard VRF SMMS-u and SHRM-e system using waste heat that would normally be exhausted to the atmosphere. The Hot Water Module available in 2.5 hp and 5 hp configurations is capable of providing 8 kW and 16 kW of heating respectively to generate hot water up to 45°C. With the addition of an externally-fitted back-up heater the hot water temperature can be increased to 50°C. Hot Water Modules can be combined in multiples of two for systems above 8 hp.

CODE			80	160
Performance				
Indoor Unit		MMW-	UP0271LQ-E	UP0561LQ-E
Capacity Code		hp	2.5	5.0
Nominal	Heating Capacity	kW	8.0	16.0
Operating Modes			Heating	Heating
Heating	Operating Ambient Range	°C WB	-20 - 19	-20 - 19
	Water Inlet	°C	15 - 45	15 - 45
	Operation Water Side (min. - max.)	°C	25 - 50	25 - 50
Electrical	Power Input	kW	0.014	0.014
	Run Current	A	0.080	0.080
Indoor Data				
Sound pressure		dB(A)	25	27
Unit	Height x Width x Depth	mm	580 x 400 x 250	580 x 400 x 250
	Weight	kg	18	20
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8
	Water Flow and Return	mm	R1-1/4 (PT1-1/4 Screw)	R1-1/4 (PT1-1/4 Screw)
Refrigerant	Type		R410A	R410A
	Charge Amount (liquid pipe length)	kg	Std VRF calculation	Std VRF calculation
Water	Circulating Pump (not included)		Local Procurement	Local Procurement
	Heat Exchanger Type		Plate	Plate
	Design Pressure Refrigerant	mPa	3.73	3.73
	Design Pressure Water	mPa	1	1
	Nominal Flow Rate	l/min	22.9	45.8
	Min. - Max. Flow Rate	l/min	19.5 - 26.3	38.9 - 52.6
	Pressure Drop Min. - Std. - Max.	Kpa	28.5 - 40.5 - 53.5	35.2 - 44.2 - 58.2
	ΔT	°C	5	5
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5	220-240/1/50-5
INDOOR RETAIL PRICE			£3,153	£3,233



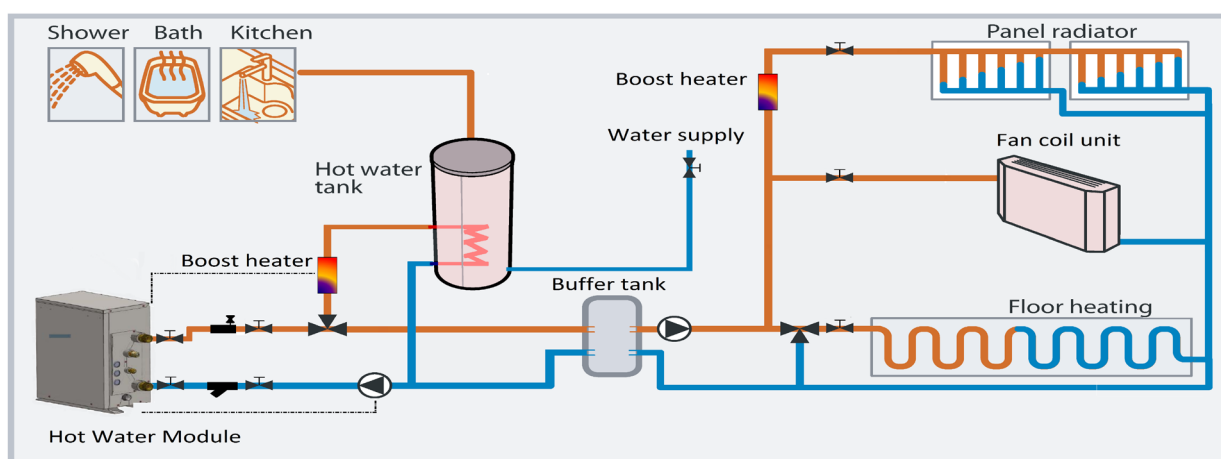
Hot water production



Automatic restart



Multi-split branching





VRF High Temperature Hot Water Module Indoor Unit

The VRF High Temperature Hot Water Module enables the production of hot water from a standard VRF SHRM-e system using waste heat that would normally be exhausted to the atmosphere. The High Temperature Hot Water Module available in 4.5 hp configuration is capable of providing 14 kW of heating to generate hot water up to 85°C. High Temperature Hot Water Modules can be combined in multiples of two for systems above 8 hp.

CODE			140
Performance			
Indoor Unit		MMW-	AP0481CHQ-E
Capacity Code		hp	4.5
Nominal	Nominal Capacity	kW	14.0
Operating Modes	Water Temperature (up to)	°C	85
Heating	Operating Ambient Range	°C	-25 - 46
	Operation Indoor (min. - max.)	°C	5 - 32
Electrical	Power Input	kW	4.15
	Run Current	A	17.5
Indoor Data			
Indoor Data		MMW-	AP0481CHQ-E
Sound pressure		dB(A)	44
Unit	Height x Width x Depth	mm	700 x 900 x 320
	Weight	kg	100
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
	Water Flow and Return	mm	R1-1/4 (PT1-1/4 Screw)
Refrigerant	Type		R134A
	Charge Amount (liquid pipe length)	kg	2.1
Water	Circulating Pump (not included)		Local Procurement
	Hydronic Components		Local Procurement
	Design Pressure	mPa	1.00
	Nominal Flow Rate	l/min	40.0
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5
INDOOR RETAIL PRICE			£6,945



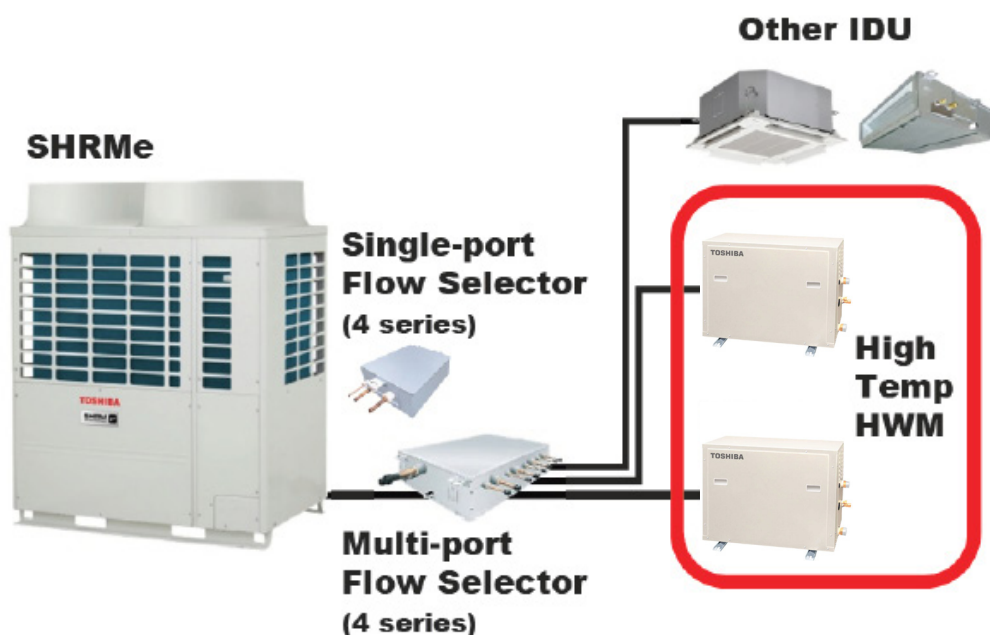
Hot water production



Automatic restart



Multi-split branching





RBC-AHU1 Air Handling Unit Applications Digital Inverter - R32

CODE			25	35	50	71	80		
Outdoor Unit			RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E	GM901ATP-E	
Cooling Range (Min. - Max.)			kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 8.0	1.9 - 8.8	
Heating Range (Min. - Max.)			kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0	1.8 - 9.9	
Ambient Operating Range Cooling/Heating			°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	
Fan(s)	Motor Power	W	43	43	43	43	43		
	Standard Air Flow	l/s	500	611	667	750	805		
	Standard Air Flow	m³/min	30	37	40	45	48		
	Standard Air Flow	m³/h	1800	2200	2400	2700	2900		
Sound	Pressure Level C/H	dB(A)	46/47	49/50	46/48	48/52	51/55		
	Power Level C/H	dB(A)	61/62	64/65	63/65	65/69	68/72		
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)		Silky Shade (Muncel 1Y 8.5/0.5)		Silky Shade (Muncel 1Y 8.5/0.5)		
	Heat Exchanger		Finned tube		Finned tube		Finned tube		
	Compressor Type		Hermetic Twin Rotary		Hermetic Twin Rotary		Hermetic Twin Rotary		
	Compressor Power	kW	0.75		1.1		1.6		
	Height x Width x Depth		mm	550 x 780 x 290		550 x 780 x 290		630 x 800 x 300	
	Total Weight		kg	29		34		47	
Refrigerant	Control		Pulse motor valve		Pulse motor valve		Pulse motor valve		
	Gas Type		R32		R32		R32		
	Base Charge/Chargeless To	kg/m	0.63/15		0.9/15		1.3/20		
	Additional Charge Main Liquid Side	g/m	20		20		35		
	Replacement Technology		Yes	R22, R407C, R410A, R417A, R134a, R12		R22, R407C, R410A, R417A, R134a, R12		R22, R407C, R410A, R417A, R134a, R12	
Pipe Connections	Min.-Max. Length		m	2-20		5-30		5-30	
	Height Difference Outdoor To AHU		m	±10		±30		±30	
	Gas Side		inch	3/8		1/2		5/8	
	Liquid Side		inch	1/4		1/4		3/8	
	Drain Port Connector Hose Inner Diameter		mm	16		16		16	
Electrical	Power Supply		V/ph/Hz	220-240/1/50		220-240/1/50		220-240/1/50	
	Maximum Run Current		A	4.17		5.60		7.31	
	Suggested Fused Supply		A	10		10		16	
Control Panel			RBC-	AHU1	AHU1	AHU1	AHU1	AHU1	
Unit	Height x Width x Depth		mm	300 x 300 x 150		300 x 300 x 150		300 x 300 x 150	
	Weight		kg	10		10		10	
Electrical	Power Supply		V/ph/Hz	220-240/1/50		220-240/1/50		220-240/1/50	
	Common Alarm Output			12 V DC 20 mA		12 V DC 20 mA		12 V DC 20 mA	
	Run Indication Output			12 V DC 20 mA		12 V DC 20 mA		12 V DC 20 mA	
	Remote START/STOP	V	0		0		0		
	Wired controller ON/OFF Lock		V	0		0		0	
	Suggested Fused Supply		A	6		6		6	
AHU DX Coil Design (Third Party Supply)				AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	
Capacity	Cooling	kW	2.5		3.6		5.6		
	Heating	kW	3.4		4.0		6.3		
Design	Evaporating Temperature Range		°C	4 - 7		4 - 7		4 - 7	
	Suction Superheat (Target)		K	5		5		5	
Heat Exchanger	Air Volume Min. - Max.		m³/h	480 - 720		480 - 880		480 - 1100	
	Coil Pipe Diameter		mm - "	9.52 - 3/8		9.52 - 3/8		9.52 - 3/8	
	Paths		No.	4		4		4 - 6	
	DX Coil Burst Pressure (Greater Than)		mPa	12.45		12.45		12.45	
	Maximum System Operating Pressure		mPa	4.15		4.15		4.15	
RBC-AHU1 CONTROL PANEL				£523	£523	£523	£523	£523	
OUTDOOR RETAIL PRICE				£691	£827	£987	£1,301	£1,431	
SYSTEM RETAIL PRICE				£1,214	£1,350	£1,510	£1,824	£1,954	

Accessories

RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£391
RBC-TS11	Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



RBC-AHU1 Air Handling Unit Applications Digital Inverter - R32 (continued)

CODE			100	100	125	125	
Outdoor Unit			RAV-	GM1101ATP-E	GM1101AT8P-E	GM1401ATP-E	GM1401AT8P-E
Cooling Range (Min. - Max.)			kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
Heating Range (Min. - Max.)			kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
Ambient Operating Range Cooling/Heating			°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Fan(s)	Motor Power	W	100	100	100	100	
	Standard Air Flow	l/s	1133	1133	1167	1167	
Sound	Standard Air Flow	m³/min	68	68	70	70	
	Standard Air Flow	m³/h	4080	4080	4200	4200	
	Pressure Level C/H	dB(A)	54/57	54/57	55/57	55/57	
Unit	Power Level C/H	dB(A)	70/74	70/74	70/74	70/74	
	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	
	Heat Exchanger		Finned tube	Finned tube	Finned tube	Finned tube	
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	
	Compressor Power	kW	3.0	2.5	3.0	3.0	
	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	
	Total Weight	kg	68	69	68	69	
Refrigerant	Control		Pulse motor valve	Pulse motor valve	Pulse motor valve	Pulse motor valve	
	Gas Type		R32	R32	R32	R32	
	Base Charge/Chargeless To	kg/m	2.1/30	2.1/30	2.1/30	2.1/30	
	Additional Charge Main Liquid Side	g/m	35	35	35	35	
	Replacement Technology	Yes	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	
Pipe Connections	Min.-Max. Length	m	5-50	5-50	5-50	5-50	
	Height Difference Outdoor To AHU	m	±30	±30	±30	±30	
	Gas Side	inch	5/8	5/8	5/8	5/8	
	Liquid Side	inch	3/8	3/8	3/8	3/8	
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	16	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50-20	220-240/1/50	380-415/3/50-20	
	Maximum Run Current	A	14.20	4.75	20.75	6.90	
	Suggested Fused Supply	A	20	10	32	10	
Control Panel			RBC-	AHU1	AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	
	Weight	kg	10	10	10	10	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-24 /1/50	
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Remote START/STOP	V	0	0	0	0	
	Wired controller ON/OFF Lock	V	0	0	0	0	
	Suggested Fused Supply	A	6	6	6	6	
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	
Capacity	Cooling	kW	11.2	11.2	13.2	13.2	
	Heating	kW	13.0	13.0	16.0	13.0	
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7	
	Suction Superheat (Target)	K	5	5	5	5	
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 2500	1260 - 2500	1260 - 2750	1260 - 2500	
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	6 - 10	6 - 10	8 - 12	8 - 12	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	
Maximum System Operating Pressure			mPa	4.15	4.15	4.15	4.15
RBC-AHU1 CONTROL PANEL			£523	£523	£523	£523	
OUTDOOR RETAIL PRICE			£1,712	£2,070	£1,804	£2,182	
SYSTEM RETAIL PRICE			£2,235	£2,593	£2,327	£2,705	

Accessories

RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£391
RBC-TS11	Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



RBC-AHU1 Air Handling Unit Applications Digital Inverter - R32 (continued)

CODE			140	140	200	250	
Outdoor Unit			RAV-	GM1601ATP-E	GM1601AT8P-E	GM2241AT8-E1	GM2801AT8-E1
Cooling Range (Min. - Max.)			kW	3.0 - 16.0	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
Heating Range (Min. - Max.)			kW	3.0 - 18.0	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
Ambient Operating Range Cooling/Heating			°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	52 to -15/15 to -27	52 to -15/15 to -27
Fan(s)	Motor Power	W	100+100	100+100	200 + 200	200 + 200	
	Standard Air Flow	l/s	1916	1916	2550	3033	
	Standard Air Flow	m³/min	115	115	153	182	
	Standard Air Flow	m³/h	6900	6900	9150	10890	
Sound	Pressure Level C/H	dB(A)	53/55	53/55	58/60	61/63	
	Power Level C/H	dB(A)	70/72	70/72	76/76	78/80	
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	
	Heat Exchanger		Finned tube	Finned tube	Finned tube	Finned tube	
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	
	Compressor Power	kW	3.75	3.75	5.6	5.6	
	Height x Width x Depth	mm	1340 x 900 x 320	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370	
	Total Weight	kg	95	94	142	142	
	Refrigerant	Control		Pulse motor valve	Pulse motor valve	Pulse motor valve	Pulse motor valve
Gas Type		R32	R32	R32	R32		
Base Charge/Chargeless To		kg/m	2.4/30	2.4/30	5.0/30	5.0/30	
Additional Charge Main Liquid Side		g/m	35	35	80	80	
Replacement Technology		Yes	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	
Pipe Connections	Min.-Max. Length	m	5-50	5-50	5-100	5-100	
	Height Difference Outdoor To AHU	m	±30	±30	±30	±30	
	Gas Side	inch	5/8	5/8	1-1/8*	1-1/8*	
	Liquid Side	inch	3/8	3/8	1/2	1/2	
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	16	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50-16	380-415/3/50-20	
	Maximum Run Current	A	21.71	7.23	9.52	13.04	
	Suggested Fused Supply	A	32	16	16	20	
Control Panel			RBC-	AHU1	AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	
	Weight	kg	10	10	10	10	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Remote START/STOP	V	0	0	0	0	
	Wired controller ON/OFF Lock		V	0	0	0	
	Suggested Fused Supply	A	6	6	6	6	
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	
Capacity	Cooling	kW	13.2	13.2	22.4	27.0	
	Heating	kW	13.0	13.0	25.0	31.5	
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7	
	Suction Superheat (Target)	K	5	5	5	5	
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 3000	1260 - 3000	2880 - 4320	3360 - 5040	
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	6 - 10	6 - 10	10 - 12	10 - 12	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	
RBC-AHU1 CONTROL PANEL			£523	£523	£523	£523	
OUTDOOR RETAIL PRICE			£2,431	£2,702	£4,698	£4,706	
SYSTEM RETAIL PRICE			£2,954	£3,225	£5,221	£5,229	

Accessories

RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£391
RBC-TS11	Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



RBC-AHU1 Air Handling Unit Applications Super Digital Inverter - R32

CODE			50	71	100	100	
Outdoor Unit			RAV-	GP561AT(P)(W)-E	GP801AT(W)-E	GP1101AT-E	GP1101AT8-E
Cooling Range (Min. - Max.)			kW	1.2 - 5.6	1.9 - 8.0	3.1 - 12.0	2.6 - 12.0
Heating Range (Min. - Max.)			kW	0.9 - 8.1	1.3 - 11.3	2.6 - 13.0	2.4 - 15.6
Ambient Operating Range Cooling/Heating			°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 52/-27 to 15	-15 to 46/-20 to 15
Fan(s)	Motor Power	W	43	100+100	100+100	100+100	100+100
	Standard Air Flow	l/s	625	883	1933	1683	1683
	Standard Air Flow	m³/min	38	53	116	101	101
	Standard Air Flow	m³/h	2250	3180	6960	6060	6060
Sound	Pressure Level C/H	dB(A)	46/48	46/48	49/50	49/50	49/50
	Power Level C/H	dB(A)	63/65	63/65	66/67	66/67	66/67
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)
	Heat Exchanger		Finned tube		Finned tube	Finned tube	Finned tube
	Compressor Type		Hermetic Twin Rotary		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
	Compressor Power	kW	1.1	2.0	3.75	3.75	3.75
	Height x Width x Depth	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Total Weight	kg	45	74	104	95	95
Refrigerant	Control		Pulse motor valve		Pulse motor valve	Pulse motor valve	Pulse motor valve
	Gas Type		R32		R32	R32	R32
	Base Charge/Chargeless To	kg/m	1.35/20	1.9/30	3.1/30	2.6/30	2.6/30
	Additional Charge Main Liquid Side	g/m	20	35	35	40	40
	Replacement Technology	Yes	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12
Pipe Connections	Min.-Max. Length	m	3-50	3-50	3-75	3-75	3-75
	Height Difference Outdoor To AHU	m	±30	±30	±30	±30	±30
	Gas Side	inch	1/2	5/8	5/8	5/8	5/8
	Liquid Side	inch	1/4	3/8	3/8	3/8	3/8
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	16	16
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
	Maximum Run Current	A	6.33	8.56	11.20	4.52	4.52
	Suggested Fused Supply	A	16	16	20	10	10
Control Panel			RBC-	AHU1	AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150
	Weight	kg	10	10	10	10	10
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Remote START/STOP	V	0	0	0	0	0
	Wired controller ON/OFF Lock	V	0	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6	6
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	4.0	5.6	8.0	12.0	12.0
	Heating	kW	5.0	8.1	11.3	13.0	13.0
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7	4 - 7
	Suction Superheat (Target)	K	5	5	5.00	5.00	5.00
Heat Exchanger	Air Volume Min. - Max.	m³/h	480 - 880	480 - 1100	700 - 1500	1260 - 2500	1260 - 2500
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	4	4 - 6	6-8	6-10	6-10
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15
RBC-AHU1 CONTROL PANEL			£523	£523	£523	£523	£523
OUTDOOR RETAIL PRICE			£1,413	£2,243	£2,793	£2,964	£2,964
SYSTEM RETAIL PRICE			£1,936	£2,766	£3,316	£3,487	£3,487



RBC-AHU1 Air Handling Unit Applications Super Digital Inverter - R32 (continued)

CODE			125	125	125
Outdoor Unit			GP1401AT-E1	GP1401AT8-E	GP1601AT8-E
Cooling Range (Min. - Max.)	kW		3.1 - 14.0	2.6 - 14.0	2.6 - 16.0
Heating Range (Min. - Max.)	kW		2.6 - 16.5	2.4 - 18.0	2.4 - 19.0
Ambient Operating Range Cooling/Heating	°C		-15 to 52/-27 to 15	-15 to 46/-20 to 15	-15 to 46/-20 to 15
Fan(s)	Motor Power	W	100+100	100+100	100+100
	Standard Air Flow	l/s	1933	1717	1717
	Standard Air Flow	m³/min	116	103	103
	Standard Air Flow	m³/h	6960	6180	6180
Sound	Pressure Level C/H	dB(A)	50/51	50/52	51/53
	Power Level C/H	dB(A)	67/68	68/69	68/70
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)
	Heat Exchanger		Finned tube	Finned tube	Finned tube
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
	Compressor Power	kW	3.75	3.75	3.75
	Height x Width x Depth	mm	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
	Total Weight	kg	104	95	95
	Refrigerant		Pulse motor valve	Pulse motor valve	Pulse motor valve
Refrigerant	Control		R32	R32	R32
	Gas Type		R32	R32	R32
	Base Charge/Chargeless To	kg/m	3.1/30	2.6/30	2.6/30
	Additional Charge Main Liquid Side	g/m	35	40	40
	Replacement Technology	Yes	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12	R22, R407C, R410A, R417A, R134a, R12
Pipe Connections	Min.-Max. Length	m	3-75	3-75	3-75
	Height Difference Outdoor To AHU	m	±30	±30	±30
	Gas Side	inch	5/8	5/8	5/8
	Liquid Side	inch	3/8	3/8	3/8
	Drain Port Connector Hose Inner Diameter	mm	16	16	16
Electrical	Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50
	Maximum Run Current	A	15.36	6.03	7.55
	Suggested Fused Supply	A	25	16	16
Control Panel			AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150
	Weight	kg	10	10	10
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Remote START/STOP	V	0	0	0
	Wired controller ON/OFF Lock	V	0	0	0
	Suggested Fused Supply	A	6	6	6
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	12.0	14.0	14.0
	Heating	kW	13.0	16.5	16.5
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7
	Suction Superheat (Target)	K	5.00	5.00	5.00
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 2500	2260 - 2750	2260 - 2750
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	6-10	8-12	8-12
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15
RBC-AHU1 CONTROL PANEL			£523	£523	£523
OUTDOOR RETAIL PRICE			£3,069	£3,095	£3,292
SYSTEM RETAIL PRICE			£3,592	£3,618	£3,815

Accessories

RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£391
RBC-TSI1	Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



RBC-AHU1 Air Handling Unit Applications Digital Inverter - R410A

CODE			140	200	250	
Outdoor Unit			RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Cooling Range (Min. - Max.)		kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0	
Heating Range (Min. - Max.)		kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5	
Ambient Operating Range Cooling/Heating		°C	43 to -15/15 to -15	52 to -15/15 to -27	52 to -15/15 to -27	
Fan(s)	Motor Power	W	100 + 100	200 + 200	200 + 200	
	Standard Air Flow	l/s	1717	2550	3033	
	Standard Air Flow	m³/min	103	153	182	
	Standard Air Flow	m³/h	6180	9180	10920	
Sound	Pressure Level C/H	dB(A)	51/53	58/60	61/63	
	Power Level C/H	dB(A)	68/70	76/76	78/80	
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	
	Heat Exchanger		Finned tube	Finned tube	Finned tube	
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	
	Compressor Power	kW	3.8	5.6	5.6	
	Height x Width x Depth	mm	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370	
	Total Weight	kg	99	142	142	
Refrigerant	Control		Pulse motor valve	Pulse motor valve	Pulse motor valve	
	Gas Type		R410A	R410A	R410A	
	Base Charge/Chargeless To	kg/m	3.1/30	5.9/30	5.9/30	
	Additional Charge Main Liquid Side	g/m	40	90	90	
Pipe Connections	Replacement Technology	Yes	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	
	Min.-Max. Length	m	5-50	5-100	5-100	
	Height Difference Outdoor To AHU	m	±30	±30	±30	
	Gas Side	inch	5/8	1-1/8*	1-1/8*	
	Liquid Side	inch	3/8	1/2	1/2	
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50	
	Maximum Run Current	A	21.70	10.78	15.06	
	Suggested Fused Supply	A	32	16	20	
Control Panel		RBC-	AHU1	AHU1	AHU1	
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	
	Weight	kg	10	10	10	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	
	Remote START/STOP	V	0	0	0	
	Wired controller ON/OFF Lock	V	0	0	0	
	Suggested Fused Supply	A	6	6	6	
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	
Capacity	Cooling	kW	16.0	22.4	27.0	
	Heating	kW	16.0	25.0	31.5	
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	
	Suction Superheat (Target)	K	5	5	5	
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 3000	2880 - 4320	3360 - 5040	
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	8 - 12	10 - 12	10 - 12	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	
Maximum System Operating Pressure		mPa	4.15	4.15	4.15	
RBC-AHU1 CONTROL PANEL			£523	£523	£523	
OUTDOOR RETAIL PRICE			£2,838	£4,854	£4,860	
SYSTEM RETAIL PRICE			£3,361	£5,377	£5,383	

Note: * 28.6 mm to 19.1 mm (1-1/8" - 3/4") reducer is required to connect to condensing unit.

Accessories

RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£391
RBC-TSI1	Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



VRF Air Handling Unit Applications Single-Circuit DX Coils

CODE			56	71	80	120	140	
SMMS-u 2-Pipe VRF Outdoor Model			M(C)MY-	-	-	-	MHP0406HT-E	MHP0506HT-E1
System Capacity			hp	2	2.5	3	4	5
Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Type				HEADER	HEADER	HEADER	HEADER	HEADER
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	
	Weight	kg	8	8	8	8	8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Safety Interlock Input	V	0	0	0	0	0	
	Fan Interlock Input	V	0	0	0	0	0	
	Remote ON/OFF Lock Input	V	0	0	0	0	0	
	Suggested Fused Supply		A	6	6	6	6	
DX Coil Valve Kit Header			MM-	DXV080	DXV080	DXV080	DXV140	DXV140
AHU DX Coil Design (Third Party Supply)				AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	5.6	7.1	8.0	11.2	14.0	
	Heating Capacity	kW	6.3	8.0	9.0	12.5	16.0	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Air Volume Min. - Max.	l/s	200 - 300	300 - 433	300 - 433	350 - 533	467 - 700	
	Air Volume Min. - Max.	m³/min	12 - 18	18 - 26	18 - 26	21 - 32	28 - 42	
	Air Volume Min. - Max.	m³/hr	720 - 1080	1060 - 1580	1060 - 1580	1280 - 1920	1680 - 2520	
	Coil Volume	cm³	850 - 1150	1063 - 1438	1275 - 1725	1700 - 2300	2125 - 2875	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	4 - 6	6 - 8	6 - 8	6 - 10	8 - 12	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	
OUTDOOR UNIT(S)			-	-	-	£3,170	£3,191	
DXC010 CONTROL PANEL			£671	£671	£671	£671	£671	
DX COIL VALVE KITS			£314	£314	£314	£314	£314	
CONTROL PANEL & VALVES RETAIL PRICE			£985	£985	£985	£4,155	£4,176	

Accessories

RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£391
RBC-TSI1	Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



VRF Air Handling Unit Applications Single-Circuit DX Coils (continued)

CODE			120	140	160	120	140	160	
SMMS-u 2-Pipe VRF Outdoor Model			M(C)MY-	MHP0404HS-E	MHP0504HS-E	MHP0604HS-E	MHP0404HS8-E	MHP0504HS8-E	MHP0604HS8-E
System Capacity		hp	4	5	6	4	5	6	
Control Panel		MM-	DXC010	DXC010	DXC010	DXC010	DXC010	DXC010	
Type			HEADER	HEADER	HEADER	HEADER	HEADER	HEADER	
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	
	Weight	kg	8	8	8	8	8	8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Safety Interlock Input	V	0	0	0	0	0	0	
	Fan Interlock Input	V	0	0	0	0	0	0	
	Remote ON/OFF Lock Input	V	0	0	0	0	0	0	
	Suggested Fused Supply		A	6	6	6	6	6	
DX Coil Valve Kit Header			MM-	DXV140	DXV140	DXV140	DXV140	DXV140	DXV140
AHU DX Coil Design (Third Party Supply)				AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	11.2	14.0	16.0	11.2	14.0	16.0	
	Heating Capacity	kW	12.5	16.0	18.0	12.5	16.0	18.0	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Air Volume Min. - Max.	l/s	350 - 533	467 - 700	517 - 1033	350 - 533	467 - 700	517 - 1033	
	Air Volume Min. - Max.	m³/min	21 - 32	28 - 42	31 - 62	21 - 32	28 - 42	31 - 62	
	Air Volume Min. - Max.	m³/hr	1280 - 1920	1680 - 2520	1850 - 3740	1280 - 1920	1680 - 2520	1850 - 3740	
	Coil Volume	cm³	1700 - 2300	2125 - 2875	2550 - 3450	1700 - 2300	2125 - 2875	2550 - 3450	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	6 - 10	8 - 12	8 - 12	6 - 10	8 - 12	8 - 12	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	12.45	
Maximum System Operating Pressure		mPa	4.15	4.15	4.15	4.15	4.15	4.15	
OUTDOOR UNIT(S)			£3,974	£4,454	£4,766	£4,057	£4,558	£4,801	
DXC010 CONTROL PANEL			£671	£671	£671	£671	£671	£671	
DX COIL VALVE KITS			£314	£314	£314	£314	£314	£314	
CONTROL PANEL & VALVES RETAIL PRICE			£4,959	£5,439	£5,751	£5,042	£5,543	£5,786	

Accessories

RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£391
RBC-TSI1	Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



VRF Air Handling Unit Applications Single-Circuit DX Coils (continued)

CODE			220	280
SMMS-u 2-Pipe VRF Outdoor Model			MHP0806HS8-E	MHP1006HS8-E
System Capacity			8	10
Control Panel			DXC010	DXC010
Type			HEADER	HEADER
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0	0
	Fan Interlock Input	V	0	0
	Remote ON/OFF Lock Input	V	0	0
	Suggested Fused Supply	A	6	6
DX Coil Valve Kit Header			DXV280	DXV280
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	22.4	28.0
	Heating Capacity	kW	22.4	28.0
Design	Evaporating Temperature Range	°C	6.5	6.5
	Suction Superheat (Target)	K	5	5
	Condensing Temperature	°C	52	52
Heat Exchanger	Type		Counter flow	Counter flow
	Air Volume Min. - Max.	l/s	800 - 1200	933 - 1400
	Air Volume Min. - Max.	m³/min	48 - 72	56 - 84
	Air Volume Min. - Max.	m³/hr	2880 - 4320	3360 - 5040
	Coil Volume	cm³	3400 - 4600	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8
	Paths	No.	10 - 12	10 - 12
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45
Maximum System Operating Pressure			4.15	4.15
OUTDOOR UNIT(S)			£5,490	£5,689
DXC010 CONTROL PANEL			£671	£671
DX COIL VALVE KITS			£314	£314
CONTROL PANEL & VALVES RETAIL PRICE			£6,475	£6,674

Accessories

RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	£391
RBC-TSI1	Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	£79



VRF Air Handling Unit Applications Multi-Circuit DX Coils

CODE			335	400	450	500	560	
Combination			MMY-					
SMMS-u 2-Pipe VRF Outdoor Model			MMY-	MUP1201HT8P-E	MUP1401HT8P-E	MUP1601HT8P-E	MUP1801HT8P-E	MUP2001HT8P-E
System Capacity			hp	12	14	16	18	20
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0	0	0	0	0	0
	Fan Interlock Input	V	0	0	0	0	0	0
	Remote ON/OFF Lock Input	V	0	0	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6	6	6
FOLLOWER PANEL(s)	CIRCUIT 2	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	DXC012
	CIRCUIT 3	MM-	-	-	-	-	-	-
	CIRCUIT 4	MM-	-	-	-	-	-	-
	CIRCUIT 5	MM-	-	-	-	-	-	-
	CIRCUIT 6	MM-	-	-	-	-	-	-
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	7.6	7.6	7.6	7.6	7.6	7.6
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	6	6	6	6	6	6
DX COIL VALVE KIT	HEADER CIRCUIT 1	MM-	DXV140	DXV280	DXV280	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 2	MM-	DXV140	DXV140	DXV280	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 3	MM-	-	-	-	-	-	-
	FOLLOWER CIRCUIT 4	MM-	-	-	-	-	-	-
	FOLLOWER CIRCUIT 5	MM-	-	-	-	-	-	-
	FOLLOWER CIRCUIT 6	MM-	-	-	-	-	-	-
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	33.5	40.0	45.0	50.4	56.0	56.0
	Heating Capacity	kW	33.5	40.0	45.0	50.4	56.0	56.0
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	6.5
	Suction Superheat (Target)	K	5	5	5	5	5	5
	Condensing Temperature	°C	52	52	52	52	52	52
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	Counter flow
	Coil Circuits		2	2	2	2	2	2
	Air Volume Min. - Max.	l/s	1028 - 2078	1314 - 2239	1600 - 2400	1733 - 2600	1867 - 2800	1867 - 2800
	Air Volume Min. - Max.	m³/min	62 - 125	79 - 134	96 - 144	104 - 156	112 - 168	112 - 168
	Air Volume Min. - Max.	m³/hr	3700 - 7480	4730 - 8060	5760 - 8640	6240 - 9360	6720 - 10080	6720 - 10080
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	4.15
Circuit 1	Coil Volume	cm³	2550 - 3450	2975 - 4025	3400 - 4600	3825 - 5175	4250 - 5750	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 2	Coil Volume	cm³	2550 - 3450	2975 - 4025	3400 - 4600	3825 - 5175	4250 - 5750	4250 - 5750
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	8 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 3	Coil Volume	cm³	-	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-	-
	Paths	No.	-	-	-	-	-	-
Circuit 4	Coil Volume	cm³	-	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-	-
	Paths	No.	-	-	-	-	-	-
Circuit 5	Coil Volume	cm³	-	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-	-
	Paths	No.	-	-	-	-	-	-
Circuit 6	Coil Volume	cm³	-	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-	-
	Paths	No.	-	-	-	-	-	-
OUTDOOR UNIT(s)			£8,628	£10,345	£11,258	£12,212	£13,054	
DXC010 HEADER CONTROL PANEL			£671	£671	£671	£671	£671	
DXC012 FOLLOWER PANEL			£503	£503	£503	£503	£503	
DX COIL VALVE KITS			£628	£628	£628	£628	£628	
VRF AHU PACKAGE (EXCLUDING DX COIL)			£10,430	£12,147	£13,060	£14,014	£14,856	

Note: For accessories please refer to Single-Circuit DX Coils.



VRF Air Handling Unit Applications Multi-Circuit DX Coils (continued)

CODE			615	670	735	800	835	
Combination			MMY-					
SMMS-u 2-Pipe VRF Outdoor Model			MMY-	MUP2201HT8P-E	MUP2401HT8P-E	UP2611HT8P-E MUP1401HT8P-E MUP1201HT8P-E	UP2811HT8P-E MUP1401HT8P-E MUP1401HT8P-E	UP3011HT8P-E MUP1801HT8P-E MUP1201HT8P-E
System Capacity			hp	22	24	26	28	30
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0	0	0	0	0	0
	Fan Interlock Input	V	0	0	0	0	0	0
	Remote ON/OFF Lock Input	V	0	0	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6	6	6
FOLLOWER PANEL(s)	CIRCUIT 2	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	DXC012
	CIRCUIT 3	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	DXC012
	CIRCUIT 4	MM-	-	-	-	-	-	-
	CIRCUIT 5	MM-	-	-	-	-	-	-
	CIRCUIT 6	MM-	-	-	-	-	-	-
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	
	Weight	kg	7.6	7.6	7.6	7.6	7.6	7.6
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	6 (x 2)	6 (x 2)	6 (x 2)	6 (x 2)	6 (x 2)	6 (x 2)
DX COIL VALVE KIT	HEADER CIRCUIT 1	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 2	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 3	MM-	DXV140	DXV280	DXV280	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 4	MM-	-	-	-	-	-	-
	FOLLOWER CIRCUIT 5	MM-	-	-	-	-	-	-
	FOLLOWER CIRCUIT 6	MM-	-	-	-	-	-	-
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	
Capacity	Cooling Capacity	kW	61.5	67.0	73.5	80.0	83.9	
	Heating Capacity	kW	61.5	67.0	73.5	80.0	83.9	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Coil Circuits		3	3	3	3	3	
	Air Volume Min. - Max.	l/s	2114 - 3439	2400 - 3600	2533 - 3800	2667 - 4000	2800 - 4200	
	Air Volume Min. - Max.	m³/min	127 - 206	144 - 216	152 - 228	160 - 240	168 - 252	
	Air Volume Min. - Max.	m³/hr	7610 - 12380	8640 - 12960	9120 - 13680	9600 - 14400	10080 - 15120	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	
	Circuit 1	Coil Volume	cm³	3117 - 4217	3400 - 4600	3683 - 4983	3967 - 5367	4250 - 5750
Coil Diameter		mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
Paths		No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 2	Coil Volume	cm³	3117 - 4217	3400 - 4600	3683 - 4983	3967 - 5367	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 3	Coil Volume	cm³	3117 - 4217	3400 - 4600	3683 - 4983	3967 - 5367	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	8 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 4	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
	Paths	No.	-	-	-	-	-	
Circuit 5	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
	Paths	No.	-	-	-	-	-	
Circuit 6	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
	Paths	No.	-	-	-	-	-	
OUTDOOR UNIT(s)			£13,957	£15,336	£18,973	£20,690	£20,840	
DXC010 HEADER CONTROL PANEL			£671	£671	£671	£671	£671	
DXC012 FOLLOWER PANEL			£1,006	£1,006	£1,006	£1,006	£1,006	
DX COIL VALVE KITS			£942	£942	£942	£942	£942	
VRF AHU PACKAGE (EXCLUDING DX COIL)			£16,576	£17,955	£21,592	£23,309	£23,459	

Note: For accessories please refer to Single-Circuit DX Coils.



VRF Air Handling Unit Applications Multi-Circuit DX Coils (continued)

CODE			895	960	1005	1070	1120	
Combination			MMY-	UP3211HT8P-E	UP3411HT8P-E	UP3611HT8P-E	UP3811HT8P-E	UP4011HT8P-E
SMMS-u 2-Pipe VRF Outdoor Model			MMY-	MUP2001HT8P-E MUP1201HT8P-E	MUP2001HT8P-E MUP1401HT8P-E	MUP2401HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP1401HT8P-E	MUP2001HT8P-E MUP2001HT8P-E
System Capacity			hp	32	34	36	38	40
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	
	Weight	kg	8	8	8	8	8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Safety Interlock Input	V	0	0	0	0	0	
	Fan Interlock Input	V	0	0	0	0	0	
	Remote ON/OFF Lock Input	V	0	0	0	0	0	
	Suggested Fused Supply	A	6	6	6	6	6	
FOLLOWER PANEL(s)			MM-	DXC012	DXC012	DXC012	DXC012	
CIRCUIT 2		MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 3	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 4	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 5	MM-	-	-	-	-	-	
	CIRCUIT 6	MM-	-	-	-	-	-	
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	
	Weight	kg	7.6	7.6	7.6	7.6	7.6	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Suggested Fused Supply	A	6 (x 3)	6 (x 3)	6 (x 3)	6 (x 3)	6 (x 3)	
DX COIL VALVE KIT			MM-	DXV280	DXV280	DXV280	DXV280	
HEADER CIRCUIT 1		MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 2	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 3	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 4	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 5	MM-	-	-	-	-	-	
	FOLLOWER CIRCUIT 6	MM-	-	-	-	-	-	
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	
Capacity	Cooling Capacity	kW	89.5	96.0	100.5	107.0	112.0	
	Heating Capacity	kW	89.5	96.0	100.5	107.0	112.0	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Coil Circuits		4	4	4	4	4	
	Air Volume Min. - Max.	l/s	3200 - 4800	3333 - 5000	3467 - 5200	3600 - 5400	3733 - 5600	
	Air Volume Min. - Max.	m³/min	192 - 288	200 - 300	208 - 312	216 - 324	224 - 336	
	Air Volume Min. - Max.	m³/hr	11520 - 17280	12000 - 18000	12480 - 18720	12960 - 19440	13440 - 20160	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	
Circuit 1	Coil Volume	cm³	3400 - 4600	3613 - 4888	3825 - 5175	4038 - 5463	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 2	Coil Volume	cm³	3400 - 4600	3613 - 4888	3825 - 5175	4038 - 5463	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 3	Coil Volume	cm³	3400 - 4600	3613 - 4888	3825 - 5175	4038 - 5463	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 4	Coil Volume	cm³	3400 - 4600	3613 - 4888	3825 - 5175	4038 - 5463	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
Circuit 5	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
	Paths	No.	-	-	-	-	-	
Circuit 6	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
	Paths	No.	-	-	-	-	-	
OUTDOOR UNIT(s)			£21,682	£23,399	£23,964	£25,681	£26,108	
DXC010 HEADER CONTROL PANEL			£671	£671	£671	£671	£671	
DXC012 FOLLOWER PANEL			£1,509	£1,509	£1,509	£1,509	£1,509	
DX COIL VALVE KITS			£1,256	£1,256	£1,256	£1,256	£1,256	
VRF AHU PACKAGE (EXCLUDING DX COIL)			£25,118	£26,835	£27,400	£29,117	£29,544	

Note: For accessories please refer to Single-Circuit DX Coils.



VRF Air Handling Unit Applications Multi-Circuit DX Coils (continued)

CODE			1170	1230	1285	1340	1405	
Combination			MMY-	UP4211HT8P-E	UP4411HT8P-E	UP4611HT8P-E	UP4811HT8P-E	UP5011HT8P-E
SMMS-u 2-Pipe VRF Outdoor Model			MMY-	MUP2401HT8P-E MUP1801HT8P-E	MUP2401HT8P-E MUP2001HT8P-E	MUP2401HT8P-E MUP2201HT8P-E	MUP2401HT8P-E MUP2401HT8P-E	MUP2401HT8P-E MUP1401HT8P-E MUP1201HT8P-E
System Capacity			hp	42	44	46	48	50
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	
	Weight	kg	8	8	8	8	8	
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Wired Controller		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	
	Common Alarm Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Run Indication Contact Rating		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	
	Safety Interlock Input	V	0	0	0	0	0	
	Fan Interlock Input	V	0	0	0	0	0	
	Remote ON/OFF Lock Input	V	0	0	0	0	0	
	Suggested Fused Supply	A	6	6	6	6	6	
FOLLOWER PANEL(s)	CIRCUIT 2	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 3	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 4	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 5	MM-	DXC012	DXC012	DXC012	DXC012	DXC012	
	CIRCUIT 6	MM-	-	-	-	-	-	
	Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
Electrical	Weight	kg	7.6	7.6	7.6	7.6	7.6	
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Suggested Fused Supply	A	6 (x 4)	6 (x 4)	6 (x 4)	6 (x 4)	6 (x 4)	
DX COIL VALVE KIT	HEADER CIRCUIT 1	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 2	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 3	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 4	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 5	MM-	DXV280	DXV280	DXV280	DXV280	DXV280	
	FOLLOWER CIRCUIT 6	MM-	-	-	-	-	-	
AHU DX Coil Design (Third Party Supply)			AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	
Capacity	Cooling Capacity	kW	117.4	123.0	128.5	134.0	140.5	
	Heating Capacity	kW	117.4	123.0	128.5	134.0	140.5	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Coil Circuits		5	5	5	5	5	
	Air Volume Min. - Max.	l/s	4133 - 6200	4267 - 6400	4400 - 6600	4533 - 6800	4667 - 7000	
	Air Volume Min. - Max.	m³/min	248 - 372	256 - 384	264 - 396	272 - 408	280 - 420	
	Air Volume Min. - Max.	m³/hr	14880 - 22320	15360 - 23040	15840 - 23760	16320 - 24480	16800 - 25200	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	
Circuit 1	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	
	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
Circuit 2	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
Circuit 3	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
Circuit 4	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
Circuit 5	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3570 - 4830	3740 - 5060	3910 - 5290	4080 - 5520	4250 - 5750	
	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
Circuit 6	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	-	-	-	-	-	
	Coil Diameter	mm - "	-	-	-	-	-	
OUTDOOR UNIT(s)			£27,548	£28,390	£29,293	£30,672	£34,309	
DXC010 HEADER CONTROL PANEL			£671	£671	£671	£671	£671	
DXC012 FOLLOWER PANEL			£2,012	£2,012	£2,012	£2,012	£2,012	
DX COIL VALVE KITS			£1,570	£1,570	£1,570	£1,570	£1,570	
VRF AHU PACKAGE (EXCLUDING DX COIL)			£31,801	£32,643	£33,546	£34,925	£38,562	

Note: For accessories please refer to Single-Circuit DX Coils.



VRF Air Handling Unit Applications Multi-Circuit DX Coils (continued)

CODE			1470	1520	1565	1630	1675	
Combination			MMY-	UP5211HT8P-E	UP5411HT8P-E	UP5611HT8P-E	UP5811HT8P-E	UP6011HT8P-E
SMMS-u 2-Pipe VRF Outdoor Model			MMY-	MUP2401HT8P-E MUP1401HT8P-E MUP1401HT8P-E	MUP2001HT8P-E MUP2001HT8P-E MUP1401HT8P-E	MUP2401HT8P-E MUP2001HT8P-E MUP1201HT8P-E	MUP2401HT8P-E MUP2001HT8P-E MUP1401HT8P-E	MUP2401HT8P-E MUP2001HT8P-E MUP1201HT8P-E
System Capacity			hp	52	54	56	58	60
Header Control Panel			MM-	DXC010	DXC010	DXC010	DXC010	DXC010
Unit	Height x Width x Depth	mm	400 x 300 x 150		400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8		8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Wired Controller		RBC-AMT32E		RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
	Common Alarm Contact Rating		250 V AC 8 A		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Run Indication Contact Rating		250 V AC 8 A		250 V AC 8 A	250 V AC 8 A	250 V AC 8 A	250 V AC 8 A
	Safety Interlock Input	V	0		0	0	0	0
	Fan Interlock Input	V	0		0	0	0	0
	Remote ON/OFF Lock Input	V	0		0	0	0	0
	Suggested Fused Supply	A	6		6	6	6	6
FOLLOWER PANEL(s)			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 2			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 3			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 4			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 5			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
CIRCUIT 6			MM-	DXC012	DXC012	DXC012	DXC012	DXC012
Unit	Height x Width x Depth	mm	400 x 300 x 150		400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	7.6		7.6	7.6	7.6	7.6
Electrical	Power Supply	V/ph/Hz	220-240/1/50		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	6 (x 5)		6 (x 5)	6 (x 5)	6 (x 5)	6 (x 5)
DX COIL VALVE KIT			MM-	DXV280	DXV280	DXV280	DXV280	DXV280
HEADER CIRCUIT 1			MM-	DXV280	DXV280	DXV280	DXV280	DXV280
FOLLOWER CIRCUIT 2			MM-	DXV280	DXV280	DXV280	DXV280	DXV280
FOLLOWER CIRCUIT 3			MM-	DXV280	DXV280	DXV280	DXV280	DXV280
FOLLOWER CIRCUIT 4			MM-	DXV280	DXV280	DXV280	DXV280	DXV280
FOLLOWER CIRCUIT 5			MM-	DXV280	DXV280	DXV280	DXV280	DXV280
FOLLOWER CIRCUIT 6			MM-	DXV280	DXV280	DXV280	DXV280	DXV280
AHU DX Coil Design (Third Party Supply)				AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL	AHU DX COIL
Capacity	Cooling Capacity	kW	147.0	152.0	156.5	163.0	167.5	
	Heating Capacity	kW	147.0	152.0	156.5	163.0	167.5	
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5	6.5	
	Suction Superheat (Target)	K	5	5	5	5	5	
	Condensing Temperature	°C	52	52	52	52	52	
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow	Counter flow	
	Coil Circuits		6	6	6	6	6	
	Air Volume Min. - Max.	l/s	5067 - 7600	5200 - 7800	4800 - 8033	5467 - 8200	5600 - 8400	
	Air Volume Min. - Max.	m³/min	304 - 456	312 - 468	288 - 482	328 - 492	336 - 504	
	Air Volume Min. - Max.	m³/hr	18240 - 27360	18720 - 28080	17280 - 28920	19680 - 29520	20160 - 30240	
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45	12.45	
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15	
	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
Circuit 1	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
Circuit 2	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
Circuit 3	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
Circuit 4	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
Circuit 5	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	Coil Volume	cm³	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	4250 - 5750	
Circuit 6	Coil Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	
	OUTDOOR UNIT(s)			£36,026	£36,453	£37,018	£38,735	£39,300
DXC010 HEADER CONTROL PANEL			£671	£671	£671	£671	£671	
DXC012 FOLLOWER PANEL			£2,515	£2,515	£2,515	£2,515	£2,515	
DX COIL VALVE KITS			£1,884	£1,884	£1,884	£1,884	£1,884	
VRF AHU PACKAGE (EXCLUDING DX COIL)			£41,096	£41,523	£42,088	£43,805	£44,370	

Note: For accessories please refer to Single-Circuit DX Coils.

Note: 62-120 hp combinations are available, please contact your Toshiba supplier for details.



Air Handling Unit 0-10 V BMS Control - Digital Inverter and Super Digital Inverter

Outdoor Unit		hp	1.0	1.5	2.0	3.0
Cooling Min.-Max.	Digital Inverter R32	RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E
	Super Digital Inverter R32	RAV-	-	-	GP561AT(P)(W)-E	GP801AT(W)-E
	Digital Inverter R410A	RAV-	-	-	-	-
	Digital Inverter R32	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 7.4
Heating Min.-Max.	Super Digital Inverter R32	kW	-	-	1.2 - 5.6	1.9 - 8.0
	Digital Inverter R410A	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 8.0
	Super Digital Inverter R410A	kW	-	1.5 - 4.0	1.2 - 5.6	1.9 - 8.0
	Digital Inverter R32	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0
Pipe Connections	Super Digital Inverter R32	kW	-	-	0.9 - 8.1	1.3 - 11.3
	Digital Inverter R410A	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0
	Super Digital Inverter R410A	kW	-	1.5 - 5.0	0.9 - 7.4	1.3 - 10.6
	Gas Pipe	mm - "	9.5 (3/8)	12.7 (1/2)	12.7 (1/2)	9.5 - 3/8
		mm - "	6.4 (1/4)	6.4 (1/4)	6.4 (1/4)	6.4 - 1/4

Control Panel		RBC-	DXC031	DXC031	DXC031	DXC031
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Capacity Demand Input		AI 0-10 V	AI 0-10 V	AI 0-10 V	AI 0-10 V
	Digital Output		250 VAC 6 A	250 VAC 6 A	250 VAC 6 A	250 VAC 6 A
	Suggested Fused Supply	A	6	6	6	6

AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	2.5	3.6	5.6	8.0
	Heating	kW	3.4	4.0	6.3	9.0
Cooling	Air on Coil Temperature	°C DB/WB	27/19	27/19	27/19	27/19
	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4-7
	Suction Superheat (Target)	K	5	5	5	5
Heating	Air on Coil Temperature	°C DB	20	20	20	20
	Condensing Temperature	°C	44	44	44	44
	Sub Cooling	K	5	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m³/h	480 - 720	480 - 880	480 - 1100	700 - 1500
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	4	4	4 - 6	6 - 8
	Recommended Liquid Capillary Distributor Orifice size	ID mm	2.3 - 2.5	2.8 - 3.0	3.2 - 3.5	3.5 - 4.0
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45
		mPa	4.15	4.15	4.15	4.15

RBC-DXC031 CONTROL PANEL	£853	£853	£853	£853
DIGITAL INVERTER R32	£691	£827	£987	£1,301
SYSTEM RETAIL PRICE	£1,544	£1,680	£1,840	£2,154

RBC-DXC031 CONTROL PANEL	-	-	£853	£853
SUPER DIGITAL INVERTER R32	-	-	£1,413	£2,243
SYSTEM RETAIL PRICE	-	-	£2,266	£3,096

RBC-DXC031 CONTROL PANEL	-	-	-	-
DIGITAL INVERTER R410A	-	-	-	-
SYSTEM RETAIL PRICE	-	-	-	-

* 380-415 V/3 ph/50 Hz version available



Air Handling Unit 0-10 V BMS Control - Digital Inverter and Super Digital Inverter (continued)

Outdoor Unit		hp	3.5	4.0	5.0	6.0
Cooling Min.-Max.	Digital Inverter R32	RAV-	GM901ATP-E	GM1101ATP-E*	GM1401ATP-E*	GM1601ATP-E*
	Super Digital Inverter R32	RAV-	-	GP1101AT-E	GP1401AT-E	GP1601AT8-E
	Digital Inverter R410A	RAV-	-	-	--	-
	Digital Inverter R32	kW	1.9 - 8.8	3.0 - 11.2	3.0 - 13.2	3.0 - 16.0
Heating Min.-Max.	Super Digital Inverter R32	kW	-	3.1 - 12.0	3.1 - 14.0	3.0 - 16.0
	Digital Inverter R410A	kW	-	3.0 - 11.2	3.0 - 13.2	-
	Super Digital Inverter R410A	kW	-	2.6 - 12.0	2.6 - 14.0	-
	Digital Inverter R32	kW	1.8 - 9.9	3.0 - 13.0	3.0 - 16.0	3.0 - 18.0
Pipe Connections	Super Digital Inverter R32	kW	-	2.6 - 13.0	2.6 - 16.5	3.0 - 18.0
	Digital Inverter R410A	kW	-	3.0 - 13.0	3.0 - 16.0	-
	Super Digital Inverter R410A	kW	-	2.4 - 13.0	2.4 - 16.5	-
	Gas Pipe	mm - "	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	15.9 (5/8)
		mm - "	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 (3/8)

Control Panel		RBC-	DXC031	DXC031	DXC031	DXC031
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Capacity Demand Input		AI 0-10 V	AI 0-10 V	AI 0-10 V	AI 0-10 V
	Digital Output		250 VAC 6 A	250 VAC 6 A	250 VAC 6 A	250 VAC 6 A
	Suggested Fused Supply	A	6	6	6	6

AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	8.8	11.2	13.2	16.0
	Heating	kW	9.9	13.0	16.0	18.0
Cooling	Air on Coil Temperature	°C DB/WB	27/19	27/19	27/19	27/19
	Evaporating Temperature Range	°C	4 - 7	4-7	4-7	4 ~ 7
	Suction Superheat (Target)	K	5	5	5	5
Heating	Air on Coil Temperature	°C DB	20	20	20	20
	Condensing Temperature	°C	44	44	44	44
	Sub Cooling	K	5	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m³/h	700 - 1500	1260 - 2500	1260 - 2750	1260 - 3000
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	6 - 8	6 - 10	8 - 12	8 - 12
	Recommended Liquid Capillary Distributor Orifice size	ID mm	3.5 - 4.0	4.5 - 5.0	5.0 - 5.5	5.5 - 6.0
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15

RBC-DXC031 CONTROL PANEL	£853	£853	£853	£853
DIGITAL INVERTER R32	£1,431	£1,712	£1,804	£2,431
SYSTEM RETAIL PRICE	£2,284	£2,565	£2,657	£3,284

RBC-DXC031 CONTROL PANEL	-	£853	£853	£853
SUPER DIGITAL INVERTER R32	-	£2,793	£3,069	£3,292
SYSTEM RETAIL PRICE	-	£3,646	£3,922	£4,145

RBC-DXC031 CONTROL PANEL	-	-	-	-
DIGITAL INVERTER R410A	-	-	-	-
SYSTEM RETAIL PRICE	-	-	-	-

* 380-415 V/3 ph/50 Hz version available



Air Handling Unit 0-10 V BMS Control - Digital Inverter and Super Digital Inverter (continued)

Outdoor Unit		hp	6.0	8.0	10.0
Cooling Min.-Max.	Digital Inverter R32	RAV-	-	GM2241AT8-E	GM2801AT8-E
	Super Digital Inverter R32	RAV-	-	-	-
	Digital Inverter R410A	RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
	Digital Inverter R32	kW		4.6 - 22.4	4.6 - 27.0
Heating Min.-Max.	Super Digital Inverter R32	kW		-	-
	Digital Inverter R410A	kW	2.6 - 16.0	9.8 - 22.4	9.8 - 27.0
	Super Digital Inverter R410A	kW	2.6 - 16.0	-	-
	Digital Inverter R32	kW		4.6 - 25.0	4.6 - 31.5
Pipe Connections	Super Digital Inverter R32	kW		-	-
	Digital Inverter R410A	kW	3.0 - 18.0	9.8 - 25.0	9.8 - 31.5
	Super Digital Inverter R410A	kW	2.4 - 19.0	-	-
	Gas Pipe	mm - "	15.9 - 5/8	28.6 (9/8)	28.6 (9/8)
	Liquid Pipe	mm - "	9.5 - 3/8	12.7 (1/2)	12.7 (1/2)

Control Panel		RBC-	DXC031	DXC031	DXC031
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Capacity Demand Input		AI 0-10 V	AI 0-10 V	AI 0-10 V
	Digital Output		250 VAC 6 A	250 VAC 6 A	250 VAC 6 A
	Suggested Fused Supply	A	6	6	6

AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	16.0	22.4	27.0
	Heating	kW	16.0	25.0	31.5
Cooling	Air on Coil Temperature	°C DB/WB	27/19	27/19	27/19
	Evaporating Temperature Range	°C	4-7	4-7	4-7
	Suction Superheat (Target)	K	5	5	5
Heating	Air on Coil Temperature	°C DB	20	20	20
	Condensing Temperature	°C	44	44	44
	Sub Cooling	K	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 3000	2880 - 4320	3360 - 5040
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	10 - 12	10 - 12
	Recommended Liquid Capillary Distributor Orifice size	ID mm	5.5 - 6.0	6.5 - 7.0	7.0 - 8.0
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15

RBC-DXC031 CONTROL PANEL	-	£853	£853
DIGITAL INVERTER R32	-	£4,698	£4,706
SYSTEM RETAIL PRICE	-	£5,551	£5,559

RBC-DXC031 CONTROL PANEL	-	-	-
SUPER DIGITAL INVERTER R32	-	-	-
SYSTEM RETAIL PRICE	-	-	-

RBC-DXC031 CONTROL PANEL	£853	£853	£853
DIGITAL INVERTER R410A	£2,838	£4,854	£4,860
SYSTEM RETAIL PRICE	£3,691	£5,707	£5,713

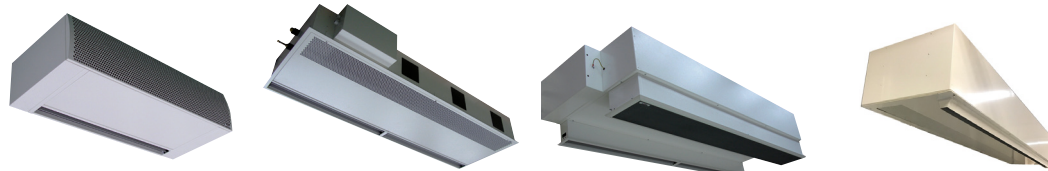
* 380-415 V/3 ph/50 Hz version available



Air Handling Unit 0-10 V BMS Control - SMMS-u

Outdoor Unit		hp	8	10
	SMMS-u	MMY-	MUP0801HT8P-E	MUP1001HT8P-E
Cooling	Min.-Max.	kW	11.2-22.4	14.0-28.0
Heating	Min.-Max.	kW	10.0-25.0	12.6-31.5
Pipe Connections	Gas Pipe	mm - "	19.1 - 3/4	22.2 - 7/8
	Liquid Pipe	mm - "	12.7 - 1/2	12.7 - 1/2
Control Panel		RBC-	DXC031	DXC031
Unit	Height x Width x Depth	mm	400 x 300 x 150	400 x 300 x 150
	Weight	kg	8	8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50
	Capacity Demand Input		AI 0-10 V	AI 0-10 V
	Digital Output		250 VAC 6 A	250 VAC 6 A
	Suggested Fused Supply	A	6	6
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	22.4	28.0
	Heating	kW	25.0	31.5
Cooling	Air on Coil Temperature	°C DB/WB	27/19	27/19
	Evaporating Temperature Range	°C	6.5	6.5
	Suction Superheat (Target)	K	5	5
Heating	Air on Coil Temperature	°C DB	20	20
	Condensing Temperature	°C	47	47
	Sub Cooling	K	10	10
Heat Exchanger	Air Volume Min. - Max.	m³/h	2880 - 4320	3360 - 5040
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8
	Paths	No.	10 - 12	10 - 12
	Electronic Expansion Valve	MM-	DXV281	DXV281
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15
RBC-DXC031 CONTROL PANEL			£853	£853
MM-DXV281 CONTROL VALVE			£193	£193
SMMS-u OUTDOOR UNIT			£6,864	£7,457
SYSTEM RETAIL PRICE			£7,910	£8,503

APPLIED



VRF Air Curtains

CODE		80	80	112	112	140	140	160	160	140
Air Curtain Model										
Capacity Code	RAV-	CT101***M	CT101***L	CT151***M	CT151***L	CT201***M	CT201***L	CT251***M	CT251***L	SM2000DH-FS-VRF
VRF System Interface (factory-fitted)	HP	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1	MMD-ODH1
Heating Capacity	kW	8.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0	9.0
COP		2.63	2.77	2.56	2.93	2.75	3.20	3.27	3.81	3.00
Air Flow	Standard	l/s	444	614	667	819	889	1228	1111	1433
	Standard	m³/h	1600	2210	2400	2950	3200	4420	4000	5160
	Power Input Indoor	kW	0.35	0.53	0.53	0.70	1.05	0.88	1.23	0.66
Door	Width	mm	1000	1000	1500	1500	2000	2000	2500	2500
	Maximum Height	m	3.0	3.2	3.0	3.2	3.0	3.2	3.0	3.2
Sound	Pressure Level M	dB(A)	54	55	55	56	56	57	57	58
	Power Level M	dB(A)	69	70	70	71	71	72	72	73
Free-Hanging Type										
Unit	Height x Width x Depth	mm	260 x 1210 x 490	260 x 1210 x 490	260 x 1710 x 490	260 x 1710 x 490	260 x 2210 x 490	260 x 2210 x 490	260 x 2710 x 490	320 x 2340 x 550
	Weight	kg	48	51	77	80	101	107	132	138
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	10	10	10	10	10	16	10	16
Cassette Type										
Unit	Height x Width x Depth	mm	260 x 1050 x 780	260 x 1050 x 780	260 x 1550 x 780	260 x 1550 x 780	260 x 2050 x 780	260 x 2050 x 780	260 x 2550 x 780	260 x 2550 x 780
	Weight	kg	40	43	95	98	99	105	120	126
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	10	10	10	10	10	16	10	16
Built-In Type										
Unit	Height x Width x Depth	mm	405-485 x 1105 x 720	405-485 x 1105 x 720	405-485 x 1605 x 720	405-485 x 1605 x 720	405-485 x 2105 x 720	405-485 x 2105 x 720	405-485 x 2605 x 720	405-485 x 2605 x 720
	Weight	kg	71	74	105	108	129	135	170	176
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	10	10	10	10	10	16	10	16
INDOOR RETAIL PRICE										
	CT***CH-*	£6,477	£7,181	£7,931	£8,289	£8,946	£10,025	£10,035	£10,456	-
	CT***UH-*	£6,736	£7,587	£7,987	£8,505	£9,061	£10,096	£10,101	£11,075	-
	CT***BH-*	£7,391	£7,441	£8,697	£9,052	£9,393	£10,203	£10,506	£11,389	-
	SM2000*									£12,635
	SM2000* (inc. RBC-FMC2)									£12,789

Accessories

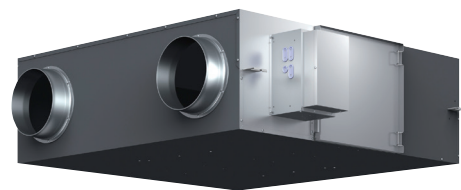
RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-ASCU11-E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	£56
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	£12
RBC-SMIM2	Indicator Module Mode	Interface to indicate the mode of unit operation output for Cool, Heat and Fan Only	£89
RBC-SMIM3	Indicator Module ON/OFF And Stopping Fault	Interface to indicate unit operation and stopping fault	£85
RBC-SMIM4	Indicator Module ON/OFF, Stopping Fault And Unit Enable	Interface to indicate unit operation and stopping fault and connections to enable the unit	£95
RBC-FMC2	Flush Mount Collar Kit (for Fre-sh-air model)	Enables air curtain to be mounted in void space	£154

Note: Air Curtain model Fre-sh-air Universal DX VRF - SM2000DH-FS unit can be mounted in ceiling void using accessory RBC-FMC2



Air Curtains Digital Inverter

CODE			160	160	
Air Curtain Model			RAV-	CT251***M	CT251***L
Outdoor Unit			RAV-	SM1603AT-E1	SM1603AT-E1
Capacity Code			hp	6	6
Heating	Capacity	kW	16.0	16.0	
	COP		2.86	2.91	
Air Flow	Standard	l/s	1111	1433	
	Standard	m³/h	4000	5160	
	Power Input Indoor	kW	0.88	1.23	
Door	Width	mm	2500	2500	
	Maximum Height	m	3.0	3.2	
Sound	Pressure Level M	dB(A)	57	59	
	Power Level M	dB(A)	72	74	
Free-Hanging Type			RAV-	CT251CH-M	CT251CH-L
Unit	Height x Width x Depth	mm	260 x 2710 x 490	260 x 2710 x 490	
	Weight	kg	132	138	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor			3 core + earth	3 core + earth	
INDOOR RETAIL PRICE			£9,067	£9,488	
Cassette Type			RAV-	CT251UH-M	CT251UH-L
Unit	Height x Width x Depth	mm	260 x 2550 x 780	260 x 2550 x 780	
	Weight	kg	120	126	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor			3 core + earth	3 core + earth	
INDOOR RETAIL PRICE			£9,133	£10,107	
Built-In Type			RAV-	CT251BH-M	CT251BH-L
Unit	Height x Width x Depth	mm	405-485 x 2605 x 720	405-485 x 2605 x 720	
	Weight	kg	170	176	
Pipe Connection	Flare Connection (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	
Power Cable From Outdoor To Indoor			3 core + earth	3 core + earth	
INDOOR RETAIL PRICE			£9,538	£10,421	
Outdoor Unit			RAV-	SM1603AT-E1	
Heating Capacity Range (Min. - Max.)			kW	3.0 - 18.0	
Ambient Operating Range Cooling/Heating			°C	43 to -15/15 to -15	
Air Flow	Standard Air Flow	l/s	1717		
	Standard Air Flow	m³/h	6180		
Sound	Pressure Level C/H	dB(A)	51/53		
	Power Level C/H	dB(A)	68/70		
Unit	Height x Width x Depth	mm	1340 x 900 x 320		
	Weight	kg	99		
	Base Charge/Chargeless To	kg/m	3.1/30		
	Additional Charge Main Liquid Side	g/m	40		
Pipe Connections	Min.-Max. Length	m	5-50		
	Height Difference Outdoor To AHU	m	±30		
	Flare Connections (gas - liquid)	inch	5/8 - 3/8		
	Drain Port Connector Hose Inner Diameter	mm	16		
Electrical	Power Supply	V/ph/Hz	220-240/1/50		
	Maximum Run Current	A	21.70		
	Suggested Fused Supply	A	32		
OUTDOOR RETAIL PRICE			£2,838		
SYSTEM RETAIL PRICE			CT***CH-*	£11,905	£12,326
SYSTEM RETAIL PRICE			CT***UH-*	£11,971	£12,945
SYSTEM RETAIL PRICE			CT***BH-*	£12,376	£13,259



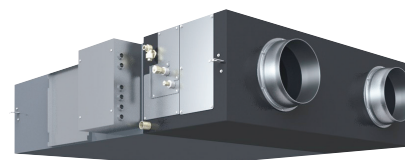
Air-to-Air Heat Exchangers Standard Version

Air-to-Air Heat Exchanger		VN-	M150HE	M250HE	M350HE	M500HE
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80
Air Flow	Standard Extra High - High - Low	l/s	42 - 42 - 30	70 - 70 - 43	97 - 97 - 58	138 - 138 - 108
	Standard Extra High - High - Low	m³/h	150 - 150 - 110	250 - 250 - 155	350 - 350 - 210	500 - 500 - 390
Fan	External Static Pressure Extra High - High - Low	Pa	102 - 78 - 64	98 - 65 - 40	125 - 83 - 94	150 - 99 - 92
	Specific Power Extra High - High - Low	W/l/s	1.8 - 1.5 - 1.5	1.9 - 1.5 - 1.3	1.8 - 1.4 - 1.5	1.6 - 1.3 - 1.2
Efficiency	Temperature Exchange Extra High - High - Low	%	81.5 - 81.5 - 83.0	78.0 - 78.0 - 81.5	74.5 - 74.5 - 79.5	76.5 - 76.5 - 78.0
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	%	69.5 - 69.5 - 71.0	65.0 - 65.0 - 69.0	60.5 - 60.5 - 67.0	64.5 - 64.5 - 66.5
	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	74.5 - 74.5 - 76.0	70.0 - 70.0 - 74.0	65.0 - 65.0 - 71.5	72.0 - 72.0 - 73.5
Sound	Pressure Extra High - High - Low	dB(A)	28.0 - 25.5 - 20.0	30.0 - 27.0 - 21.0	35.0 - 32.0 - 27.0	34.0 - 31.0 - 26.0
	Power Level Extra High - High - Low	dB(A)	43.0 - 40.5 - 35.0	45.0 - 42.0 - 36.0	50.0 - 47.0 - 42.0	49.0 - 46.0 - 41.0
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin	Special paper + Resin
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method	Gravitational method
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method	Colorimetric method
	Filtration Efficiency Grade (Collection Effect Weighing Method)	%	82	82	82	82
	Height x Width x Depth	mm	900 x 900 x 290	900 x 900 x 290	900 x 900 x 290	1140 x 1140 x 350
	Weight	kg	36	36	38	53
	Duct Nominal Diameter Supply/Return	mm	100 x 2/100 x 2	150 x 2/150 x 2	150 x 2/150 x 2	200 x 2/200 x 2
	Power Input (Heat exchange mode) Extra High - High - Low	W	78 - 67 - 47	138 - 111 - 59	182 - 145 - 88	238 - 192 - 142
	Run Current Extra High - High - Low	A	0.33 - 0.28 - 0.20	0.61 - 0.49 - 0.26	0.76 - 0.62 - 0.38	1.00 - 0.81 - 0.60
Electrical	Maximum Run Current	A	0.33	0.61	0.76	1.00
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply (with Heater Kit)	A	3 (10)	3 (10)	6 (10)	6 (16)
	Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity
INDOOR RETAIL PRICE			£1,352	£1,393	£1,599	£1,937

Air-To-Air Heat Exchanger		VN-	M650HE	M800HE	M1000HE1	M1500HE1	M2000HE1
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80
Air Flow	Standard Extra High - High - Low	l/s	180 - 180 - 145	222 - 222 - 195	278 - 278 - 194	417 - 417 - 333	555 - 555 - 388
	Standard Extra High - High - Low	m³/h	650 - 650 - 520	800 - 800 - 700	1000 - 1000 - 700	1500 - 1500 - 1200	2000 - 2000 - 1400
Fan	External Static Pressure Extra High - High - Low	Pa	107 - 82 - 96	158 - 132 - 112	105 - 80 - 70	140 - 110 - 80	105 - 80 - 70
	Specific Power Extra High - High - Low	W/l/s	1.5 - 1.4 - 1.3	1.7 - 1.6 - 1.5	1.4 - 1.2 - 1.0	1.5 - 1.4 - 1.0	1.4 - 1.2 - 1.0
Efficiency	Temperature Exchange Extra High - High - Low	%	75.0 - 75.0 - 76.5	76.5 - 76.5 - 77.5	73.5 - 73.5 - 77.0	76.5 - 76.5 - 79.0	73.5 - 73.5 - 77.5
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	%	61.5 - 61.5 - 64.0	64.0 - 64.0 - 65.5	60.5 - 60.5 - 64.5	64.0 - 64.0 - 67.0	60.5 - 60.5 - 65.5
	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	69.5 - 69.5 - 71.5	71.0 - 71.0 - 71.5	68.5 - 68.5 - 71.5	71.0 - 71.0 - 73.5	68.5 - 68.5 - 72.0
Sound	Pressure Extra High - High - Low	dB(A)	36.0 - 34.0 - 31.0	38.5 - 37.0 - 33.5	38.0 - 37.0 - 33.0	41.0 - 40.0 - 36.0	41.5 - 40.5 - 36.5
	Power Level Extra High - High - Low	dB(A)	51.0 - 49.0 - 46.0	53.5 - 52.0 - 48.5	53.0 - 52.0 - 48.0	56.0 - 55.0 - 51.0	56.5 - 55.5 - 51.5
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin	Special paper + Resin	Special paper + Resin
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method	Gravitational method	Gravitational method
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method	Colorimetric method	Colorimetric method
	Filtration Efficiency Grade (Collection Effect Weighing Method)	%	82	82	82	82	82
	Height x Width x Depth	mm	1140 x 1140 x 350	1189 x 1189 x 400	1189 x 1189 x 400	1189 x 1189 x 810	1189 x 1189 x 810
	Weight	kg	53	70	62	126	126
	Duct Nominal Diameter Supply/Return	mm	200 x 2/200 x 2	250 x 2/250 x 2	250 x 2/250 x 2	250 x 4/283 x 730 x 2	250 x 4/283 x 730 x 2
	Power Input (Heat exchange mode) Extra High - High - Low	W	290 - 258 - 191	383 - 353 - 300	390 - 340 - 190	640 - 570 - 320	780 - 680 - 380
	Run Current Extra High - High - Low	A	1.30 - 1.14 - 1.30	1.67 - 1.57 - 1.31	2.56	4.32	4.8
Electrical	Maximum Run Current	A	1.30	1.67	2.70	5.08	5.08
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply (with Heater Kit)	A	6 (16)	6 (16)	10 (16)	10 (16)	10 (20)
	Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity
INDOOR RETAIL PRICE			£2,152	£2,521	£2,798	£5,312	£5,839

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	£112
RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-VNL1	CN705 Unit Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for ON/OFF, local controller lock, increase fan speed and damper position	£60
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M Heater Kit	£444
RBC-VNMC-HE1	Heater Kit Controller	Control for VN-M1000HE1, VN-M1500HE1* and VN-M2000HE1* (* heater procured locally)	£339
RBC-VNMMH1-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	£393
RBC-VNMMH2-PE	150 mm Heater Kit 1 kW	VN-M250HE and VN-M350HE Heat Exchanger	£402
RBC-VNMMH3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500HE and VN-M650HE Heat Exchanger	£455
RBC-VNMMH4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800HE and VN-M1000HE1 Heat Exchanger	£465
TCB-PCUC2E	Indoor Control Interface	Application control kit (use with VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1)	£139

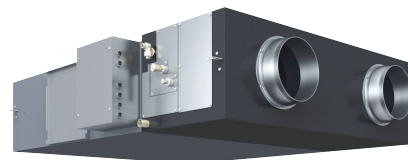


VRF Air-to-Air Heat Exchangers + DX Coil

CODE		41	65	82	
Air-to-Air Heat Exchanger		MMD-	VN502HEX1E	VN802HEX1E	VN1002HEX1E
Combinations			SMMS-u - SHRM-e - MINI SMMS-e		
Nominal	Cooling Capacity	kW	4.10 (1.30)	6.56 (2.06)	8.25 (2.32)
	Heating Capacity	kW	5.53 (2.33)	8.61 (3.61)	10.92 (4.32)
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80
Air Flow	Standard Extra High - High - Low	l/s	139 - 139 - 122	222 - 222 - 178	264 - 264 - 228
	Standard Extra High - High - Low	m³/h	500 - 500 - 440	800 - 800 - 640	950 - 950 - 820
Fan	External Static Pressure Extra High - High - Low	l/s	167 - 92	267 - 133	317 - 178
	Specific Power Extra High - High - Low	m³/h	600 - 330	960 - 480	1140 - 640
	Temperature Exchange Extra High - High - Low	Pa	120 - 105 - 115	120 - 100 - 100	135 - 120 - 105
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	W/l/s	2.2 - 2.0 - 1.9	2.2 - 2.1 - 1.9	2.1 - 2.1 - 2.1
Efficiency	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	70.5 - 70.5 - 71.5	70.0 - 70.0 - 72.5	65.5 - 65.5 - 67.5
	Pressure Extra High - High - Low	%	56.5 - 56.5 - 57.5	56.0 - 56.0 - 59.0	52.0 - 52.0 - 54.0
	Power Level Extra High - High - Low	%	68.5 - 68.5 - 69.0	70.0 - 70.0 - 73.0	66.0 - 66.0 - 68.5
Sound	Pressure Extra High/High/Low	dB(A)	37.5 - 36.5 - 34.5	41.0 - 40.0 - 38.0	43.0 - 42.0 - 40.0
	Power Level Extra High/High/Low	dB(A)	52.5 - 51.5 - 49.5	56.0 - 55.0 - 53.0	58.0 - 57.0 - 55.0
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method
	Filtration Efficiency Grade (Collection Effect Weighing Method)	%	82	82	82
	Height x Width x Depth	mm	430 x 1140 x 1690	430 x 1189 x 1739	430 x 1189 x 1739
	Weight	kg	84	100	101
	Duct Nominal Diameter Supply/Return	mm	200 x 2/200 x 2	250 x 2/250 x 2	250 x 2/250 x 2
Pipe Connection	Flare Connection (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection OD/ID	mm	VP30/25	VP30/25	VP30/25
Electrical	Power Input (Heat exchange mode) Extra High - High - Low	W	300 - 280 - 235	505 - 465 - 335	550 - 545 - 485
	Run Current Extra High - High - Low	A	1.30 - 1.21 - 1.01	2.25 - 2.07 - 1.46	2.46 - 2.43 - 2.16
	Maximum Run Current	A	1.3	2.25	2.46
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply (with Heater Kit)	A	3 (10)	3 (10)	6 (10)
	Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity
INDOOR RETAIL PRICE			£4,303	£6,272	£7,163

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	£112
RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-VNL1	CN705 Unit Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for ON/OFF, local controller lock, increase fan speed and damper position	£60
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M Heater Kit	£444
RBC-VNMF3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500HE and VN-M650HE Heat Exchanger	£455
RBC-VNMF4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800HE and VN-M1000HE1 Heat Exchanger	£465



VRF Air-to-Air Heat Exchangers + DX Coil + Humidifier

CODE			41	65	82	
Air-to-Air Heat Exchanger			MMD-	VNK502HEX1E	VNK802HEX1E	VNK1002HEX1E
Combinations			SMMS-u - SHRM-e - MINI SMMS-e			
Nominal	Cooling Capacity	kW	4.10 (1.30)	6.56 (2.06)	8.25 (2.32)	
	Heating Capacity	kW	5.53 (2.33)	8.61 (3.61)	10.92 (4.32)	
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80	
Air Flow	Standard Extra High - High - Low	l/s	139 - 139 - 122	222 - 222 - 178	264 - 264 - 228	
	Standard Extra High - High - Low	m³/h	500 - 500 - 440	800 - 800 - 640	950 - 950 - 820	
Fan	Limit Upper - Lower	l/s	167 - 92	267 - 133	317 - 178	
	Limit Upper - Lower	m³/h	600 - 330	960 - 480	1140 - 640	
	External Static Pressure Extra High - High - Low	Pa	95 - 85 - 95	105 - 85 - 90	110 - 90 - 115	
	Specific Power Extra High - High - Low	W/l/s	2.2 - 2.1 - 2.0	2.4 - 2.2 - 2.0	2.2 - 2.1 - 2.3	
Efficiency	Temperature Exchange Extra High - High - Low	%	70.5 - 70.5 - 71.5	70.0 - 70.0 - 72.5	65.5 - 65.5 - 67.5	
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	%	56.5 - 56.5 - 57.5	56.0 - 56.0 - 59.0	52.0 - 52.0 - 54.5	
	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	68.5 - 68.5 - 69.0	70.0 - 70.0 - 73.0	66.0 - 66.0 - 68.5	
Sound	Pressure Extra High - High - Low	dB(A)	36.5 - 35.5 - 33.5	40.0 - 39.0 - 38.0	42.0 - 41.0 - 39.0	
	Power Level Extra High - High - Low	dB(A)	51.5 - 50.5 - 48.5	55.0 - 54.0 - 53.0	57.0 - 56.0 - 54.0	
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin	
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method	
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method	
	Filtration Efficiency Grade (Collection Effect Weighing Method)	%	82	82	82	
	Height x Width x Depth	mm	430 x 1140 x 1690	430 x 1189 x 1739	430 x 1189 x 1739	
	Weight	kg	91	111	112	
	Humidifier		Permeable film humidifier	Permeable film humidifier	Permeable film humidifier	
	Humidifier Capacity	kg/h	3.0	5.0	6.0	
	Humidifier Feed Water Pressure	mPa	0.02 - 0.49	0.02 - 0.49	0.02 - 0.49	
	Duct Nominal Diameter Supply/Return	mm	200 x 2/200 x 2	250 x 2/250 x 2	250 x 2/250 x 2	
	Pipe Connection	Flare Connection (gas - liquid)		3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
Water Supply Connection External Threaded		R1/2	R1/2	R1/2		
Drain Pipe Connection OD/ID		mm	VP30/25	VP30/25		
Power Input (Heat Exchange Mode) Extra High - High - Low		W	305 - 285 - 240	530 - 485 - 350	575 - 565 - 520	
Electrical	Run Current Extra High - High - Low	A	1.33 - 1.24 - 1.03	2.37 - 2.14 - 1.54	2.56 - 2.51 - 2.31	
	Maximum Run Current	A	1.33	2.37	2.56	
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	
	Suggested Fused Supply (with Heater Kit)	A	6 (10)	6 (10)	6 (10)	
	Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	
	INDOOR RETAIL PRICE		£4.856	£7.070	£8.086	

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	£112
RBC-AMTU31-E	Remote Controller	Full control including service functions	£79
RBC-AMSU51-ES	Remote Controller Built-In Timer	Includes timer and backlight display as well as power-save functions, multilingual	£140
RBC-VNL1	CN705 Unit Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for ON/OFF, local controller lock, increase fan speed and damper position	£60
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M Heater Kit	£444
RBC-VNMF3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500HE and VN-M650HE Heat Exchanger	£455
RBC-VNMF4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800HE and VN-M1000HE1 Heat Exchanger	£465

> ESTIA SPLIT

OUTDOOR UNITS

Toshiba has long-term experience of successes in air-to-air heat pump production. The same reliable and award-winning technology is at the core of the new air-to-water heat pumps, above all the advanced inverter technology and the DC twin-rotary compressor.



HOT WATER TANK

The ESTIA tank is a compact stainless steel insulated tank producing domestic hot water for sanitary use.

The performance of the overall system is also maximised thanks to the integrated coaxial heat exchanger.

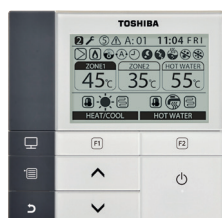
The internal electric heater is controlled to optimise the use of the system in the case of extreme outdoor air temperatures. This solution reduces running costs and guarantees a constant hot water temperature inside the tank.



HYDRO UNITS

The high-efficiency plate heat exchanger produces hot water at low or medium temperature (35-60°C) or cold water (7-20°C). A back-up heater (3.6 or 9 kW options) further supports the operation for extreme conditions. The hydro unit integrates the advanced control of water temperature to allow an optimised distribution to emitters and to the domestic hot water tank.

CONTROLLER 2 zones with weekly timer



The large screen remote controller is designed to be simple, intuitive and easy to use.

The remote controller allows independent heating to a maximum of 2 zones and domestic hot water.

It regulates the water temperature and optimises the system's energy consumption. The anti-bacteria control and the hot water boost functions can easily be activated.

The remote controller can also be used to set weekly timers for the system and, when used as a second remote controller, can be used to control room air temperature.

ESTIA SPLIT R32 WALL-MOUNTED

ESTIA R32 wall-mounted air-to-water reversible heat pumps provide space heating or comfort cooling throughout the year. They are ideal for new constructions and renovation. They can be combined with a separated tank for domestic hot water production (150, 200 and 300 l).

High energy efficiency for superior energy savings

- A+++/A++ energy class in space heating low and medium temperature with part load efficiency η_s up to 183%.
- A+/A energy class in domestic hot water production with part load efficiency η_s dhw up to 122%.

Quiet operation

- Quiet outdoor unit down to 32 dB(A) at 5 m. No noise pollution for the neighbourhoods.
- Quiet indoor unit only 28 dB(A) at 1 m.

Easy to install, easy to control

- Very compact outdoor unit (1 fan technology).
- The most compact wall-mounted hydro module on the market for easy integration.
- All components accessible on the facade. Simplified access for installation and maintenance.
- Possible management of a second water pump for 2 zones.
- Large screen remote controller, intuitive and easy to use.
- Power consumption display.
- Compatible with the latest generations of connected thermostats.
- Remote control via smartphones. Wireless interface option compatible with the Toshiba Home AC Control App.



COP MAX	CAPACITY	OPERATION	HOT WATER
5.20	4 kW > 11 kW	-25°C > +43°C	+20°C > +65°C

Best in class performances:

- > **Toshiba twin rotary compressors** and inverter technology, with injection technology on sizes 8 and 11 kW
- > **65°C maximum leaving water temperature** ideal for renovation and boiler replacement
- > **COP domestic hot water up to 2.93** (EN16147)
- > **Heat pump operation for DHW production up to +43°C outside air temperature** to maximize energy savings
- > **Back-up heaters** 3 kW, 6 kW or 9 kW



ESTiA



INDOOR UNITS

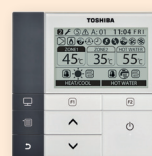
HWT-601XWHM3W-E
HWT-601XWHT6W-E
HWT-1101XWHM3W-E
HWT-1101XWHT6W-E
HWT-1101XWHT9W-E



OUTDOOR UNITS

HWT-401HW-E
HWT-601HW-E

HWT-801H(R)W-E
HWT-1105H(R)W-E



REMOTE CONTROLS

HWS-AMSU51-E



DOMESTIC
HOT WATER TANK

HWS-1501C-SHM3-E
HWS-2101C-SHM3-E
HWS-3001C-SHM3-E

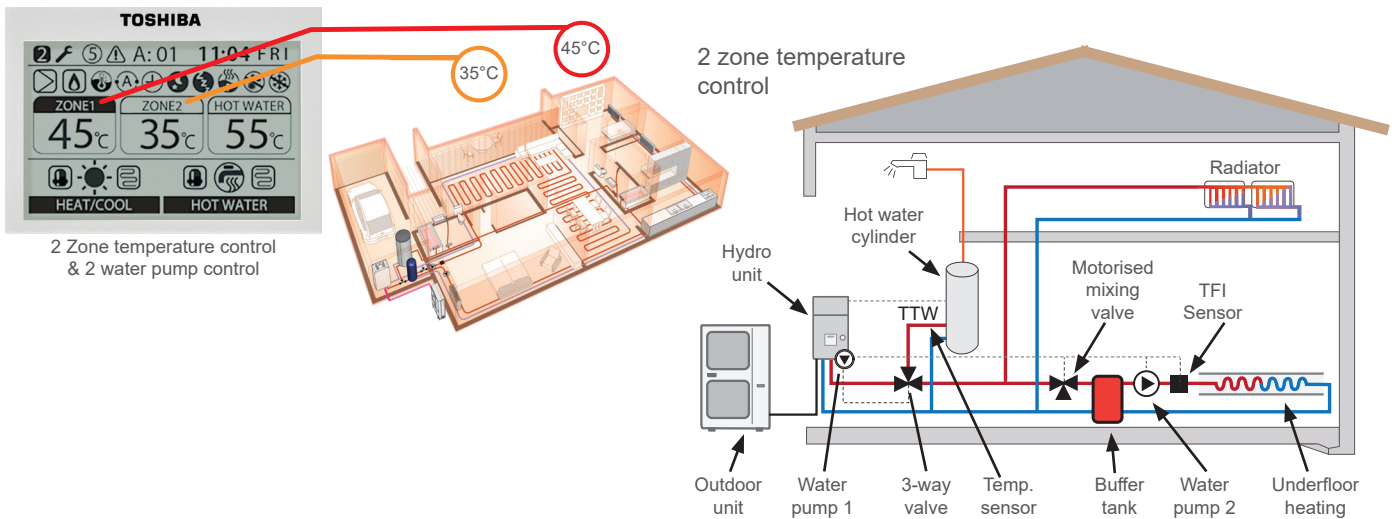
ESTIA SPLIT CONTROLS

Toshiba offers different control solutions to meet end-users' and designers' expectations. From local individual control and settings to computer-based TU2C or TCC-Link network, all indoor units can be programmed and set to suit the operational needs. Remote control systems offer a wide range of features including schedule timers, diagnostic functions, input/output signals, to name a few.

Toshiba offers a number of local control products that can be used to control a single indoor unit, or group of up to 8 indoor units, from a position adjacent to that indoor unit or group. It is possible to install these local controllers up to 500 m from the connected indoor unit which allows greater flexibility when designing the installation site.

2 zone and 2 water pump control

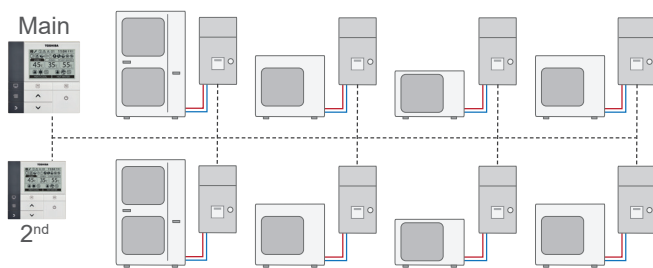
Space heating/cooling (multiple zones) with domestic hot water.



Control integration

ESTIA master/slave group control function allows up to 2 remote controllers to operate simultaneously up to 8 systems. ESTIA open protocol interfaces Modbus and KNX are available in Home Energy Management Systems.

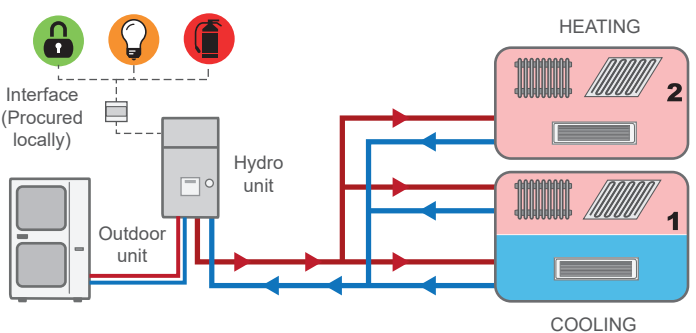
Group control function



One remote controller can simultaneously operate up to 8 systems

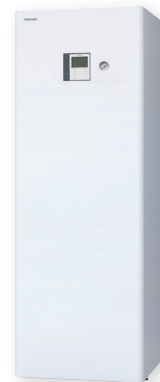
Note: Maximum connections configuration: 8 outdoors and 2 remote controllers

Open protocol interfaces



Modbus and KNX interfaces are available to use in Home Energy Management Systems

ESTIA SPLIT R32 ALL-IN-ONE



ESTIA R32 All-In-One air-to-water reversible heat pumps provide space heating or comfort cooling throughout the year, with an integrated 210 l domestic hot water cylinder. They are ideal for new constructions and renovation.

High energy efficiency for superior energy savings

- A+++/A++ energy class in space heating low and medium temperature with part load efficiency η_s up to 183%.
- A+ energy class in domestic hot water production with part load efficiency η_s dhw up to 136%.

Quiet operation

- Quiet outdoor unit down to 32 dB(A) at 5 m. No noise pollution for the neighbourhoods.
- Quiet indoor unit only 30 dB(A) at 1 m.

Easy to install, easy to control

- Very compact outdoor unit (1 fan technology).
- Floor-standing All-In-One hydro module with a 600 x 670 mm footprint for easy integration.
- Second-zone kit factory-fitted for easy management of two different leaving water temperatures (underfloor heating and radiators).
- All components accessible on the facade. Simplified access for installation and maintenance.
- Large screen remote controller, intuitive and easy to use.
- Power consumption display.
- Compatible with the latest generations of connected thermostats.
- Remote control via smartphones. Wireless interface option compatible with the Toshiba Home AC Control App.

COP MAX	CAPACITY	OPERATION	HOT WATER
5.20	4 kW > 11 kW	-25°C > +43°C	+20°C > +65°C

Best in class performances:

- > Toshiba twin rotary compressors and inverter technology, with injection technology on sizes 8 and 11 kW
- > 65°C maximum leaving water temperature ideal for renovation and boiler replacement
- > COP domestic hot water up to 3.21 (EN16147)
- > Heat pump operation for DHW production up to +43°C outside air temperature to maximize energy savings
- > Back-up heaters 3 kW, 6 kW or 9 kW



ESTiA



INDOOR UNITS

HWT-601F21SM3W-E HWT-1101F21ST9W-E
HWT-601F21ST6W-E HWT-1101F21MM3W-E
HWT-1101F21SM3W-E HWT-1101F21MT6W-E
HWT-1101F21ST6W-E HWT-1101F21MT9W-E



OUTDOOR UNITS

HWT-401HW-E HWT-801H(R)W-E
HWT-601HW-E HWT-1105H(R)W-E



REMOTE CONTROLS

HWS-AMSU51-E



Estia All-In-One Air-to-Water Heat Pump - R32

CODE						40	60	80	80	110	110
Outdoor Unit				HWT-	401HW-E	601HW-E	801HW-E	801HRW-E	1101HW-E	1101HRW-E	
Hydro Indoor Unit				HWT-	601F21S**W-E	601F21S**W-E	1101F21S**W-E	1101F21M**W-E	1101F21S**W-E	1101F21M**W-E	
Under Floor Heating	Nominal Heating Capacity	7°C	35°C	kW	4.0	6.0	8.0	8.0	11.0	11.0	
	Max. Heating Capacity	7°C	35°C	kW	7.25	7.25	11.90	11.90	13.24	13.24	
	COP	7°C	35°C	W/W	5.20	4.80	5.19	5.19	4.60	4.60	
	Energy Efficiency Class - Low Temp. Energy Label		35°C		A+++	A+++	A+++	A+++	A+++	A+++	
	Seasonal Space Heating Energy Efficiency		35°C	SCOP/ηs %	4.53/178	4.58/180	4.63/182	4.63/182	4.55/179	4.55/179	
	Max. Heating Capacity	-7°C	35°C	kW	4.40	5.57	7.49	7.49	8.45	8.45	
	Heating Capacity ¹	-7°C	35°C	kW	4.25	5.26	7.21	7.21	7.95	7.95	
	COP ¹	-7°C	35°C	W/W	3.06	2.97	2.70	2.70	2.54	2.54	
	Max. Heating Capacity	-10°C	35°C	kW	4.40	5.57	7.49	7.49	8.45	8.45	
	Max. Heating Capacity	-15°C	35°C	kW	3.73	4.75	6.46	6.46	7.37	7.37	
Radiators Heating and DHW	Heating Capacity ¹	-15°C	35°C	kW	3.43	4.39	5.96	5.96	6.77	6.77	
	COP ¹	-15°C	35°C	W/W	2.54	2.56	2.40	2.40	2.27	2.27	
	Max. Heating Capacity	7°C	45°C	kW	6.97	6.97	11.75	11.75	12.41	12.41	
	Max. Heating Capacity	-7°C	45°C	kW	4.48	5.80	8.00	8.00	8.44	8.44	
	Max. Heating Capacity	-15°C	45°C	kW	3.37	4.03	6.54	6.54	7.52	7.52	
	Max. Heating Capacity	7°C	55°C	kW	6.51	7.53	9.96	9.96	10.17	10.17	
	Max. Heating Capacity	-7°C	55°C	kW	4.31	5.42	7.35	7.35	7.72	7.72	
	Max. Heating Capacity	-10°C	55°C	kW	-	-	7.00	7.00	7.38	7.38	
	Max. Heating Capacity	-15°C	55°C	kW	-	-	6.41	6.41	6.81	6.81	
	Energy Efficiency Class - Low Temp. Energy Label		55°C		A++	A++	A++	A++	A++	A++	
Seasonal Space Heating Energy Efficiency		55°C	SCOP/ηs %	3.45/135	3.37/132	3.63/142	3.63/142	3.62/142	3.62/142		
Cooling	Nominal Cooling Capacity	35°C	7°C	kW	4.0	5.0	6.0	6.0	8.0	8.0	
	EER	35°C	7°C	W/W	3.45	3.30	3.20	3.20	2.80	2.80	
	Nominal Cooling Capacity	35°C	18°C	kW	6.34	7.12	8.85	8.85	10.26	10.26	
	EER	35°C	18°C	W/W	4.37	3.91	3.86	3.86	3.35	3.35	
Operating Range	Space Heating Operation Outdoor			°C	-20-25	-20-25	-25-25	-25-25	-25-25	-25-25	
	Hot Water Operation Outdoor			°C	-20-43	-20-43	-25-43	-25-43	-25-43	-25-43	
	Cooling Operation Outdoor			°C	10-43	10-43	10-43	10-43	10-43	10-43	
Operating Range	Hydro Heating Operation Indoor			°C	20-55	20-55	20-65	20-65	20-65	20-65	
	Hydro Cooling Operation Indoor			°C	7-25	7-25	7-25	7-25	7-25	7-25	
Heating Condition	Input Power	35°C	7°C	kW	0.77	1.25	1.54	1.54	2.39	2.39	
	Rated Water Flow	35°C	7°C	l/m	11.6	17.3	23.1	23.1	31.8	31.8	
Sound	Sound Pressure Outdoor (Rated/Silent) @ 1 m ²			dB(A)	46/41	46/42	51/47	51/49	51/47	51/49	
	Sound Pressure Outdoor (Rated/Silent) @ 5 m ³			dB(A)	38/33	40/36	41/37	42/40	41/37	42/40	
	Sound Power Outdoor (Rated/Silent)			dB(A)	60/55	62/58	63/59	64/62	63/59	64/62	
Unit	Height x Width x Depth			mm	630 x 800 x 300	630 x 800 x 300	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370	
	Weight			kg	42	42	75	75	75	75	
	Refrigerant Charge Amount/Chargeless to			kg/m	0.9/20	0.9/20	1.25/8	1.25/8	1.25/8	1.25/8	
Air Flow	Standard			l/s	607	607	873	873	973	973	
	Standard			m³/h	2184	2184	3144	3144	3504	3504	
Pipe Connection	Flare Connections (gas - liquid)			inch	1/2 - 1/4	1/2 - 1/4	5/8 - 1/4	5/8 - 1/4	5/8 - 1/4	5/8 - 1/4	
	Drain Port Connection			mm	16	16	16	16	16	16	
	Min.-Max. Length			m	5-30	5-30	5-30	5-30	5-30	5-30	
	Additional Refrigerant Charge			g/m	20	20	25	25	25	25	
	Maximum Height Difference			m	30	30	30	30	30	30	
Electrical	Power Input Heating			kW	0.77	1.25	1.54	1.54	2.39	2.39	
	Run Current Heating			A	4.08	5.78	7.05	7.05	10.60	10.60	
	Power Input Cooling			kW	1.16	1.52	1.88	1.88	2.86	2.86	
	Run Current Cooling			A	5.38	7.11	8.51	8.51	12.82	12.82	
	Maximum Run Current			A	14.60	14.60	20.30	20.30	20.30	20.30	
	Power Supply			V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
	Baseplate Tape Heater			W	-	-	-	150	-	150	
	Interconnection Cable to Hydro Indoor				2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	
	Wiring Connection Power to Outdoor Unit				3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	
	Suggested Fused Supply Outdoor Unit			A	16	16	25	25	25	25	
OUTDOOR RETAIL PRICE					£1,575	£1,763	£3,024	£3,250	£3,377	£3,631	

Notes:

Maximum heating capacities are shown at peak value during operation, at maximum compressor operating range in accordance with EN14511.

Nominal heating capacities are given at water delta T° 5°C and rated compressor operating frequency in accordance with EN14511.

¹ Heating capacities at -7°C are shown at maximum compressor operating frequency in accordance with EN14511.

Energy Efficiencies Class and Seasonal Space Heating Energy Efficiency (ηs) are provided for average climate conditions in accordance with EN14825.

² Noise pressure levels EN 12102 at 1 m, open field directivity 2.

³ Noise pressure levels EN 12102 at 5 m, open field directivity 2.



Estia All-In-One Air-to-Water Heat Pump - R32 (continued)

HYDRO UNIT		HWT-	601F21SM3W-E	601F21ST6W-E	1101F21SM3W-E	1101F21ST6W-E
Heat Exchanger	Type		Brazed plate	Brazed plate	Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	20-55	20-55	20-65	20-65
	Operation Temperature Range Cooling	°C	7-25	7-25	7-25	7-25
	Piping Maximum Length	m	none	none	none	none
	Piping Maximum Height Difference	m	±7	±7	±7	±7
	Piping Maximum Working Pressure	kPa	430	430	430	430
	Heat Exchanger Volume	litres	0.67	0.67	0.67	0.67
Circulating Pump	Heat Exchanger Minimum Flow Rate	l/m	10	10	13	13
	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Maximum Motor Output	W	60	60	60	60
	Flow Rate	l/m	11.6-17.3	11.6-17.3	23.1-31.8	23.1-31.8
	Delivery Head	m	7.5	7.5	7.5	7.5
	Expansion Vessel Volume	litres	8	8	8	8
Sound	Expansion Vessel Initial Pressure	mPa - Bar	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
	Pressure Relief Valve Operating Pressure	mPa - Bar	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3
Pipe Connection	Pressure Level	dB(A)	30	30	30	30
Unit	Water Pipe Outlet/Inlet	mm	22/22	22/22	22/22	22/22
	Refrigerant Piping (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 1/4	5/8 - 1/4
	Drain Port Hose Inner Diameter	mm	16	16	16	16
Unit	Height x Width x Depth	mm	1700 x 600 x 670	1700 x 600 x 670	1700 x 600 x 670	1700 x 600 x 670
	Weight	kg	157	157	157	157
	Back-Up Heater Power Supply	V/ph/Hz	220-230/1/50	380-400/3/50	220-230/1/50	380-400/3/50
	Back-Up Heater Power/Maximum Current	A	3/13	6/13 x 2	3/13	6/13 x 2
	Remote Controller Standard Model ³		HWS-AMSU51-E		HWS-AMSU51-E	
To Be Used With Size			40, 60	40, 60	80, 110	80, 110
2-Zone Operation			-	-	-	-
Load Profile			L	L	XL	XL
DHW Energy Efficiency Class			A+	A+	A+	A+
DHW ETA _{WH} (η _{WH}) - Average Climate		%	136	136	130	130
COP at Air 7°C (EN16147)			3.21	3.21	3.12	3.12
Heating Time		hours	01h36	01h36	01h05	01h05
Vmax @ 40°C		litres	220	220	220	220
Leaving Water Temperature (Without Electrical Heater)		°C	20-55°C	20-55°C	20-65°C	20-65°C
Maximum Leaving Water Temperature (With Electrical Heater)		°C	20-55°C	20-55°C	20-65°C	20-65°C
Leaving Water Temperature (Cooling)		°C	7-25°C	7-25°C	7-25°C	7-25°C
Tank	Water Volume	litres	210	210	210	210
	Material		Enamelled	Enamelled	Enamelled	Enamelled
	Maximum Water Pressure	bar	6	6	6	6
Expansion Vessel Volume		litres	10	10	10	10
Sound Power Level		dB(A)	42	42	42	42
Sound Pressure Level at 1 m		dB(A)	31	31	31	31
Electric Back-Up Heater Capacity		kW	3	6	3	6
Electric Back-Up Heater Supply		V/ph/Hz	220-230/1/50	380/400/3/50	220-230/1/50	380-400/3/50
Maximum Current		A	13	13 x 2	13	13 x 2
Dimensions (Height X Width X Depth)		mm	1700 x 600 x 670	1700 x 600 x 670	1700 x 600 x 670	1700 x 600 x 670
Weight		kg	157	157	157	157

HYDRO ALL-IN-ONE UNIT PRICE		TBC	TBC	TBC	TBC
SYSTEM RETAIL PRICE	HWT-401HW-E	TBC	TBC	-	-
SYSTEM RETAIL PRICE	HWT-601HW-E	TBC	TBC	-	-
SYSTEM RETAIL PRICE	HWT-801HW-E	-	-	TBC	TBC
SYSTEM RETAIL PRICE	HWT-801HRW-E	-	-	TBC	TBC
SYSTEM RETAIL PRICE	HWT-1101HW-E	-	-	TBC	TBC
SYSTEM RETAIL PRICE	HWT-1101HRW-E	-	-	TBC	TBC

Note: The electric heater, incorporated in the hot water cylinder, requires separate supply to hydro unit.

Accessories

HWS-AMSU51-E	2nd Remote Controller	Full control including service functions with fully-programmable 7-day timer	£118
HWS-IWF0010UP-E	WIFI Interface	Remote mounted adapter for Toshiba Home AC Control for Estia	£149
HWS-IFAIP01U-E	0-10 V Interface	External control (max. 3 inputs) for Estia	£219
BMS-IFMB0AWR-E	Modbus Interface	Open protocol interface	£447
BMS-IFKX0AWR-E	KNX Interface	Open protocol interface	£507



Estia All-In-One Air-to-Water Heat Pump - R32 (continued)

HYDRO UNIT		HWT-	1101F21ST9W-E	1101F21MM3W-E	1101F21MT6W-E	1101F21MT9W-E
Heat Exchanger	Type		Brazed plate	Brazed plate	Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	20-65	20-65	20-65	20-65
	Operation Temperature Range Cooling	°C	7-25	7-25	7-25	7-25
	Piping Maximum Length	m	none	none	none	none
	Piping Maximum Height Difference	m	±7	±7	±7	±7
	Piping Maximum Working Pressure	kPa	430	430	430	430
	Heat Exchanger Volume	litres	0.67	0.67	0.67	0.67
	Heat Exchanger Minimum Flow Rate	l/m	13	13	13	13
Circulating Pump	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Maximum Motor Output	W	60	60	60	60
	Flow Rate	l/m	23.1-31.8	23.1-31.8	23.1-31.8	23.1-31.8
	Delivery Head	m	7.5	7.5	7.5	7.5
	Expansion Vessel Volume	litres	8	8	8	8
	Expansion Vessel Initial Pressure	mPa - Bar	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
	Pressure Relief Valve Operating Pressure	mPa - Bar	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3
Sound	Pressure Level	dB(A)	30	32	32	32
Pipe Connection	Water Pipe Outlet/Inlet	mm	22/22	22/22	22/22	22/22
	Refrigerant Piping (gas - liquid)	inch	5/8 - 1/4	5/8 - 1/4	5/8 - 1/4	5/8 - 1/4
	Drain Port Hose Inner Diameter	mm	16	16	16	16
Unit	Height x Width x Depth	mm	1700 x 600 x 670	1700 x 600 x 670	1700 x 600 x 670	1700 x 600 x 670
	Weight	kg	157	162	162	162
	Back-Up Heater Power Supply	V/ph/Hz	380-400/3/50	220-230/1/50	380-400/3/50	380-400/3/50
	Back-Up Heater Power/Maximum Current	A	9/13 x 3	3/13	6/13 x 2	9/13 x 3
	Remote Controller Standard Model ³			HWS-AMSU51-E		
To Be Used With Size			80, 110	80, 110	80, 110	80, 110
2-Zone Operation			-	Available	Available	Available
Load Profile			XL	XL	XL	XL
DHW Energy Efficiency Class			A+	A+	A+	A+
DHW ETA _{WH} (η _{WH}) - Average Climate		%	130	130	130	130
COP at Air 7°C (EN16147)			3.12	3.12	3.12	3.12
Heating Time		hours	01h05	01h05	01h05	01h05
Vmax @ 40°C		litres	220	220	220	220
Leaving Water Temperature (Without Electrical Heater)		°C	20-65°C	20-65°C	20-65°C	20-65°C
Maximum Leaving Water Temperature (With Electrical Heater)		°C	20-65°C	20-65°C	20-65°C	20-65°C
Leaving Water Temperature (Cooling)		°C	7-25°C	7-25°C	7-25°C	7-25°C
Tank	Water Volume	litres	210	210	210	210
	Material		Enamelled	Enamelled	Enamelled	Enamelled
	Maximum Water Pressure	bar	6	6	6	6
Expansion Vessel Volume		litres	10	10	10	10
Sound Power Level		dB(A)	42	44	44	44
Sound Pressure Level at 1 m		dB(A)	31	32	32	32
Electric Back-Up Heater Capacity		kW	9	3	6	9
Electric Back-Up Heater Supply		V/ph/Hz	380-400/3/50	220-230/1/50	380-400/3/50	380-400/3/50
Maximum Current		A	13 x 3	13	13 x 2	13 x 3
Dimensions (Height X Width X Depth)		mm	1700 x 600 x 670	1700 x 600 x 670	1700 x 600 x 670	1700 x 600 x 670
Weight		kg	157	162	162	162

HYDRO ALL-IN-ONE UNIT PRICE		TBC	TBC	TBC	TBC
SYSTEM RETAIL PRICE	HWT-401HW-E	-	-	-	-
SYSTEM RETAIL PRICE	HWT-601HW-E	-	-	-	-
SYSTEM RETAIL PRICE	HWT-801HW-E	TBC	TBC	TBC	TBC
SYSTEM RETAIL PRICE	HWT-801HRW-E	TBC	TBC	TBC	TBC
SYSTEM RETAIL PRICE	HWT-1101HW-E	TBC	TBC	TBC	TBC
SYSTEM RETAIL PRICE	HWT-1101HRW-E	TBC	TBC	TBC	TBC

Note: The electric heater, incorporated in the hot water cylinder, requires separate supply to hydro unit.

Accessories

HWS-AMSU51-E	2nd Remote Controller	Full control including service functions with fully-programmable 7-day timer	£124
HWS-IWF0010UP-E	WIFI Interface	Remote mounted adapter for Toshiba Home AC Control for Estia	£156
HWS-IFAIP01U-E	0-10 V Interface	External control (max. 3 inputs) for Estia	£252
BMS-IFMB0AWR-E	Modbus Interface	Open protocol interface	£469
BMS-IFKX0AWR-E	KNX Interface	Open protocol interface	£532



Estia Air-to-Water Heat Pump - R32

CODE											40	60	80	80	110	110
Outdoor Unit						HWT-	401HW-E	601HW-E	801HW-E	801HRW-E	1101HW-E	1101HRW-E				
Hydro Indoor Unit				Air T°	Water T°	HWT-	601XWH**W-E	601XWH**W-E	1101XWH**W-E	1101XWH**W-E	1101XWH**W-E	1101XWH**W-E				
Under Floor Heating	Nominal Heating Capacity			7°C	35°C	kW	4.0	6.0	8.0	8.0	11.0	11.0				
	Max. Heating Capacity			7°C	35°C	kW	7.25	7.25	11.90	11.90	13.24	13.24				
	COP			7°C	35°C	W/W	5.20	4.80	5.19	5.19	4.60	4.60				
	Energy Efficiency Class - Low Temp. Energy Label				35°C		A+++	A+++	A+++	A+++	A+++	A+++				
	Seasonal Space Heating Energy Efficiency				35°C	SCOP/ηs %	4.53/178	4.58/180	4.63/182	4.63/182	4.55/179	4.55/179				
	Max. Heating Capacity			-7°C	35°C	kW	4.80	6.06	8.11	8.11	9.10	9.10				
	Heating Capacity ¹			-7°C	35°C	kW	4.25	5.26	7.21	7.21	7.95	7.95				
	COP ¹			-7°C	35°C	W/W	3.06	2.97	2.70	2.70	2.54	2.54				
	Max. Heating Capacity			-10°C	35°C	kW	4.40	5.57	7.49	7.49	8.45	8.45				
	Max. Heating Capacity			-15°C	35°C	kW	3.73	4.75	6.46	6.46	7.37	7.37				
Radiators Heating and DHW	Heating Capacity ¹			-15°C	35°C	kW	3.43	4.39	5.96	5.96	6.77	6.77				
	COP ¹			-15°C	35°C	W/W	2.54	2.56	2.40	2.40	2.27	2.27				
	Max. Heating Capacity			7°C	45°C	kW	6.97	6.97	11.75	11.75	12.41	12.41				
	Max. Heating Capacity			-7°C	45°C	kW	4.48	5.80	8.00	8.00	8.44	8.44				
	Max. Heating Capacity			-15°C	45°C	kW	3.37	4.03	6.54	6.54	7.52	7.52				
	Max. Heating Capacity			7°C	55°C	kW	6.51	7.53	9.96	9.96	10.17	10.17				
	Max. Heating Capacity			-7°C	55°C	kW	4.31	5.42	7.35	7.35	7.72	7.72				
	Max. Heating Capacity			-10°C	55°C	kW	-	-	7.00	7.00	7.38	7.38				
	Max. Heating Capacity			-15°C	55°C	kW	-	-	6.41	6.41	6.81	6.81				
	Energy Efficiency Class - Low Temp. Energy Label				55°C		A++	A++	A++	A++	A++	A++				
Seasonal Space Heating Energy Efficiency				55°C	SCOP/ηs %	3.45/135	3.37/132	3.63/142	3.63/142	3.62/142	3.62/142					
Cooling	Nominal Cooling Capacity			35°C	7°C	kW	4.0	5.0	6.0	6.0	8.0	8.0				
	EER			35°C	7°C	W/W	3.45	3.30	3.20	3.20	2.80	2.80				
	Nominal Cooling Capacity			35°C	18°C	kW	6.34	7.12	8.85	8.85	10.26	10.26				
	EER			35°C	18°C	W/W	4.37	3.91	3.86	3.86	3.35	3.35				
Operating Range	Space Heating Operation Outdoor					°C	-20-25	-20-25	-25-25	-25-25	-25-25	-25-25				
	Hot Water Operation Outdoor					°C	-20-43	-20-43	-25-43	-25-43	-25-43	-25-43				
	Cooling Operation Outdoor					°C	10-43	10-43	10-43	10-43	10-43	10-43				
Operating Range	Hydro Heating Operation Indoor					°C	20-55	20-55	20-65	20-65	20-65	20-65				
	Hydro Cooling Operation Indoor					°C	7-25	7-25	7-25	7-25	7-25	7-25				
Heating Condition	Input Power			35°C	7°C	kW	0.77	1.25	1.54	1.54	2.39	2.39				
	Rated Water Flow			35°C	7°C	l/m	11.6	17.3	23.1	23.1	31.8	31.8				
Sound	Sound Pressure Outdoor (Rated/Silent) @ 1 m ²					dB(A)	46/41	46/42	51/47	51/49	51/47	51/49				
	Sound Pressure Outdoor (Rated/Silent) @ 5 m ³					dB(A)	38/33	40/36	41/37	42/40	41/37	42/40				
	Sound Power Outdoor (Rated/Silent)					dB(A)	60/55	62/58	63/59	64/62	63/59	64/62				
Unit	Height x Width x Depth					mm	630 x 800 x 300	630 x 800 x 300	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370				
	Weight					kg	42	42	75	75	75	75				
	Refrigerant Charge Amount/Chargeless to					kg/m	0.9/20	0.9/20	1.25/8	1.25/8	1.25/8	1.25/8				
Air Flow	Standard					l/s	607	607	873	873	973	973				
	Standard					m³/h	2184	2184	3144	3144	3504	3504				
Pipe Connection	Flare Connections (gas - liquid)					inch	1/2 - 1/4	1/2 - 1/4	5/8 - 1/4	5/8 - 1/4	5/8 - 1/4	5/8 - 1/4				
	Drain Port Connection					mm	16	16	16	16	16	16				
	Min.-Max. Length					m	5-30	5-30	5-30	5-30	5-30	5-30				
	Additional Refrigerant Charge					g/m	20	20	25	25	25	25				
	Maximum Height Difference					m	30	30	30	30	30	30				
Electrical	Power Input Heating					kW	0.77	1.25	1.54	1.54	2.39	2.39				
	Run Current Heating					A	4.08	5.78	7.05	7.05	10.60	10.60				
	Power Input Cooling					kW	1.18	1.52	1.88	1.88	2.86	2.86				
	Run Current Cooling					A	5.38	7.11	8.51	8.51	12.82	12.82				
	Maximum Run Current					A	14.6	14.6	20.3	20.3	20.3	20.3				
	Power Supply					V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50				
	Baseplate Tape Heater					W	-	-	-	150	-	150				
	Interconnection Cable to Hydro Indoor						2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth				
	Wiring Connection Power to Outdoor Unit						2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth				
	Suggested Fused Supply Outdoor Unit					A	16	16	25	25	25	25				
OUTDOOR RETAIL PRICE							£1,575	£1,763	£3,024	£3,250	£3,377	£3,631				

Notes:

Maximum heating capacities are shown at peak value during operation, at maximum compressor operating range in accordance with EN14511.

Nominal heating capacities are given at water delta T° 5°C and rated compressor operating frequency in accordance with EN14511.

¹ Heating capacities at -7°C are shown at maximum compressor operating frequency in accordance with EN14511.

Energy Efficiencies Class and Seasonal Space Heating Energy Efficiency (ηs) are provided for average climate conditions in accordance with EN14825.

² Noise pressure levels EN 12102 at 1 m, open field directivity 2.

³ Noise pressure levels EN 12102 at 5 m, open field directivity 2.



Estia Air-to-Water Heat Pump - R32 (continued)

DOMESTIC HOT WATER TANK		HWS-	1501CSHM3-UK	2101CSHM3-UK	3001CSHM3-UK
Water	Volume	litres	150	210	300
	Maximum Temperature	°C	75	75	75
Operating Range	Standing Heat Loss	kWh/day	1.45	1.91	2.52
	Maximum Water Supply Pressure To PRV	mPa - bar	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0
	Operating Pressure Of Unit	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Vessel Charge Pressure	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Valve Setting	mPa - bar	0.6 - 6.0	0.6 - 6.0	0.6 - 6.0
	Max. Primary Working Pressure	mPa - bar	0.3 - 3.0	0.3 - 3.0	0.3 - 3.0
	Opening Temperature of T and P Relief Valve	°C	90	90	90
	Opening Pressure of T and P Relief Valve	mPa - bar	1.0 - 10	1.0 - 10	1.0 - 10
Unit	Material		Stainless steel	Stainless steel	Stainless steel
	Nominal Storage Capacity Of Units	litres - kg	150 - 181	210 - 251	300 - 360
	Insulation		Polyurethane foam	Polyurethane foam	Polyurethane foam
	Height - Diameter	mm	1090 - 550	1474 - 550	2040 - 550
	Weight Net	kg	31	41	60
Electrical	Heater	kW	2.75	2.75	2.75
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply	A	16	16	16
DOMESTIC HOT WATER TANK RETAIL PRICE			£1,194	£1,392	£1,636

Outdoor Unit			40/601HW-E (4.0 kW/6.0 kW)		
Indoor Unit			Wall-Mounted Hydro		
Model	HWS-		1501CSHM3-E	2101CSHM3-E	3001CSHM3-E
Capacity	litres		150	210	300
Climate			Average	Average	Average
Load profile			L	L	XL
η_{wh}	%		120	115	122
COP _{dhw}	kW/kW		2.87	2.72	2.93
Energy class			A+	A+	A

Outdoor Unit			80/1101H(R)W-E (8.0 kW/11.0 kW)		
Indoor Unit			Wall-Mounted Hydro		
Model	HWS-		1501CSHM3-E	2101CSHM3-E	3001CSHM3-E
Capacity	litres		150	210	300
Climate			Average	Average	Average
Load profile			L	XL	XL
η_{wh}	%		106	118	113
COP _{dhw}	kW/kW		2.53	2.83	2.71
Energy class			A+	A	A
DOMESTIC HOT WATER TANK RETAIL PRICE			£1,194	£1,392	£1,636

Note: The electric heater, incorporated in the hot water cylinder, requires separate supply to hydro unit.



Estia Air-to-Water Heat Pump - R32 (continued)

HYDRO UNIT		HWT-	601XWHM3W-E	601XWHT6W-E	1101XWHM3W-E	1101XWHT6W-E	1101XWHT9W-E
Heat Exchanger	Type		Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	20-55	20-55	20-65	20-65	20-65
	Operation Temperature Range Cooling	°C	7-25	7-25	7-25	7-25	7-25
	Piping Maximum Length/Minimum Flow Rate	m/l/m	None	None	None	None	None
	Piping Maximum Height Difference	m	±7	±7	±7	±7	±7
	Piping Maximum Working Pressure	kPa	430	430	430	430	430
	Heat Exchanger Volume	litres	0.67	0.67	0.67	0.67	0.67
	Heat Exchanger Minimum Flow Rate	l/m	10	10	13	13	13
Circulating Pump	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Maximum Motor Output	W	60	60	60	60	60
	Flow Rate	l/m	11.6-17.3	11.6-17.3	23.1-31.8	23.1-31.8	23.1-31.8
	Delivery Head	m	7.5	7.5	7.5	7.5	7.5
	Expansion Vessel Volume	litres	8	8	8	8	8
	Expansion Vessel Initial Pressure	mPa - Bar	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
	Pressure Relief Valve Operating Pressure	mPa - Bar	0.43 - 4.3	0.43 - 4.3	0.43 - 4.3	0.43 - 4.3	0.43 - 4.3
Sound	Pressure Level	dB(A)	29	29	29	29	29
	Sound Power Hydro		40	40	40	40	40
Pipe Connection	Water Pipe Outlet/Inlet	mm	R1	R1	R1	R1	R1
	Refrigerant Piping (gas - liquid)	inch	1/2 - 1/4	1/2 - 1/4	5/8 - 1/4	5/8 - 1/4	5/8 - 1/4
	Drain Port Hose Inner Diameter	mm	16	16	16	16	16
Unit	Height x Width x Depth	mm	725 x 450 x 235	725 x 450 x 235	725 x 450 x 235	725 x 450 x 235	725 x 450 x 235
	Weight	kg	27	27	27	27	27
	Back-Up Heater Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Back-Up Heater Power/Maximum Current	A	3.0/13	6.0/13 x 2	3.0/13	6.0/13 x 2	9.0/13 x 3
	Remote Controller Standard Model ³		HWS-AMSU51-E	HWS-AMSU51-E	HWS-AMSU51-E	HWS-AMSU51-E	HWS-AMSU51-E
	Interconnection Cable to Outdoor Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
	Wiring Connection Power to Hydro Unit		2 core + earth	3 core + earth	2 core + earth	3 core + earth	3 core + earth
	Suggested Fused Supply Hydro Unit	A	16	16	16	16	16
HYDRO UNIT PRICE			£3,081	£3,211	£3,365	£3,497	£3,616
SYSTEM RETAIL PRICE	HWT-401HW-E		£4,656	£4,786	-	-	-
SYSTEM RETAIL PRICE	HWT-601HW-E		£4,844	£4,974	-	-	-
SYSTEM RETAIL PRICE	HWT-801HW-E		-	-	£6,389	£6,521	£6,640
SYSTEM RETAIL PRICE	HWT-801HRW-E		-	-	£6,615	£6,747	£6,866
SYSTEM RETAIL PRICE	HWT-1101HW-E		-	-	£6,742	£6,874	£6,993
SYSTEM RETAIL PRICE	HWT-1101HRW-E		-	-	£6,996	£7,128	£7,247

Note: System retail price excludes domestic hot water tank.

Accessories

HWS-AMSU51-E	2nd Remote Controller	Full control including service functions with fully-programmable 7-day timer	£124
HWS-IWF0010UP-E	WIFI Interface	Remote mounted adapter for Toshiba Home AC Control for Estia	£156
HWS-IFAIP01U-E	0-10 V Interface	External control (max. 3 inputs) for Estia	£252
BMS-IFMB0AWR-E	Modbus Interface	Open protocol interface	£469
BMS-IFKX0AWR-E	KNX Interface	Open protocol interface	£532



Estia Air-to-Water Heat Pump - R410A

CODE				4580110140110140160										
Outdoor Unit				HWS-455H-E805H-E1105H-E1405H-E1105H8-E1405H8-E1605H8-E										
Hydro Indoor Unit				HWS-455XWHM3-E805XWH**-E1405XWH**-E1405XWH**-E1405XWH**-E1405XWH**-E1405XWH**-E										
Under Floor Heating	Nominal Heating Capacity ^{*1 2}		+7°C	35°C	kW		4.50	7.51	10.52	13.15	10.52	13.15	14.91	
	Max. Heating Capacity ³		+7°C	35°C	kW		6.83	8.52	14.63	14.73	16.74	15.77	16.76	
	COP		+7°C	35°C	W/W		4.90	4.46	4.88	4.50	4.80	4.44	4.30	
	Energy Efficiency Class - Low Temp Energy Label		35°C				A++	A++	A++	A++	A++	A++	A++	
	Seasonal Space Heating Energy Efficiency ⁴		35°C		SCOP/ηs %		4.28/167	4.12/161	4.17/163	4.08/159	4.12/161	4.02/157	4.07/159	
	Heating Capacity		-7°C	35°C	kW		4.18	5.00	8.04	8.63	8.04	8.64	9.05	
	Max. Heating Capacity ⁴		-7°C	35°C	kW		4.48	5.74	9.67	10.79	9.50	10.64	11.25	
	COP		-7°C	35°C	W/W		3.01	2.70	2.78	2.62	2.79	2.76	2.67	
	Max. Heating Capacity		-15°C	35°C	kW		3.61	4.47	7.52	8.34	7.29	8.16	8.63	
	Heating Capacity		-15°C	35°C	kW		3.14	4.02	6.17	6.86	6.38	6.85	7.18	
Radiators Heating & DHW	COP		-15°C	35°C	W/W		2.45	2.68	2.50	2.47	2.63	2.60	2.52	
	Max. Heating Capacity ^{*1 2}		+7°C	45°C	kW		6.42	8.13	13.62	13.93	14.26	15.07	15.77	
	Max. Heating Capacity ⁴		-7°C	45°C	kW		4.37	5.55	9.16	9.17	9.59	10.12	10.64	
	Max. Heating Capacity		-15°C	45°C	kW		2.84	4.31	7.12	7.37	7.03	7.75	8.15	
	Max. Heating Capacity		+7°C	55°C	kW		6.25	7.93	10.98	12.56	11.67	13.64	14.12	
	Max. Heating Capacity		-7°C	55°C	kW		4.29	5.29	8.83	8.92	8.93	9.76	10.22	
	Energy Efficiency Class - Low Temp Energy Label		55°C				A++	A++	A++	A++	A++	A++	A++	
	Seasonal Space Heating Energy Efficiency ⁴		55°C		SCOP/ηs %		3.22/125	3.27/127	3.35/130	3.31/129	3.34/130	3.31/129	3.33/130	
	Cooling		Nominal Cooling Capacity	35°C	7°C	kW		4.50	6.00	10.00	11.00	10.00	11.00	13.00
			EER	35°C	7°C	W/W		3.08	3.10	3.07	2.89	3.07	2.89	2.71
Operating Range	Space Heating Operation Outdoor			°C		-20-25	-20-25	-20-25	-20-25	-20-25	-20-25	-20-25	-20-25	
	Hot Water Operation Outdoor			°C		-20-43	-20-43	-20-43	-20-43	-20-43	-20-43	-20-43	-20-43	
	Cooling Operation Outdoor			°C		-10-43	-10-43	-10-43	-10-43	-10-43	-10-43	-10-43	-10-43	
Operating Range	Hydro Heating Operation Indoor			°C		+20-55	+20-55	+20-55	+20-55	+20-55	+20-55	+20-55	+20-55	
	Hydro Cooling Operation Indoor			°C		+07-25	+07-25	+07-25	+07-25	+07-25	+07-25	+07-25	+07-25	
Heating Condition	Input Power		35°C	7°C	kW		0.92	1.79	2.30	2.34	3.11	3.16	3.72	
	Rated Water Flow		35°C	7°C	l/m		12.9	22.9	32.1	32.1	40.1	40.1	45.8	
Sound ⁶	Sound Pressure Hydro/Outdoor			dB(A)		29/49	29/50	32/51	32/52	32/51	32/52	32/52	32/53	
	Sound Power Hydro/Outdoor			dB(A)		41/65	41/64	43/66	43/68	43/66	43/68	43/69	43/69	
Unit	Height x Width x Depth			mm		630 x 800 x 300	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	
	Weight			kg		42	63	92	92	92	92	92	92	
	Refrigerant Charge Amount/Chargeless to			kg/m		1.15/15	1.8/30	2.7/30	2.7/30	2.7/30	2.7/30	2.7/30	2.7/30	
Air Flow	Standard			l/s		667	833	1717	1717	1717	1717	1717	1717	
	Standard			m³/h		2400	3000	6180	6180	6180	6180	6180	6180	
Pipe Connection	Flare Connections (gas - liquid)			inch		1/4 - 1/2	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	
	Drain Port Connection			mm		16	16	16	16	16	16	16	16	
	Min.-Max. Length			m		5-15	5-30	5-30	5-30	5-30	5-30	5-30	5-30	
	Maximum Height Difference			m		±10	±30	±30	±30	±30	±30	±30	±30	
Electrical ¹	Hydro Unit Run Current Heating			A		0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66	
	Hydro Unit Power Input Heating			kW		0.06	0.06	0.09	0.09	0.09	0.09	0.09	0.09	
	Outdoor Unit Run Current Heating			A		4.56	7.97	10.08	13.74	3.73	5.01	5.94	5.94	
	Outdoor Unit Power Input Heating			kW		0.86	1.73	2.21	3.02	2.25	3.07	3.63	3.63	
	Total Run Current Heating			A		5.00	8.41	10.74	14.40	4.39	5.67	6.60	6.60	
	Power Supply			V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	
	Wiring Connection Power To Outdoor Unit					2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	
	Power Cable From Outdoor To Hydro Unit					3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	
	Suggested Fused Supply			A		10	20	20	25	10	16	16	16	
OUTDOOR RETAIL PRICE						£1,062	£2,858	£3,358	£3,712	£3,697	£3,993	£4,539		

DOMESTIC HOT WATER TANK				HWS-	1501CSHM3-UK	2101CSHM3-UK	3001CSHM3-UK
Water	Volume		litres		150	210	300
	Maximum Temperature		°C		75	75	75
Operating Range	Standing Heat Loss		kWh/day		1.45	1.91	2.52
	Maximum Water Supply Pressure To PRV		mPa - bar		1.6 - 16.0	1.6 - 16.0	1.6 - 16.0
	Operating Pressure Of Unit		mPa - bar		0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Vessel Charge Pressure		mPa - bar		0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Valve Setting		mPa - bar		0.6 - 6.0	0.6 - 6.0	0.6 - 6.0
	Max. Primary Working Pressure		mPa - bar		0.3 - 3.0	0.3 - 3.0	0.3 - 3.0
	Opening Temperature of T&P Relief Valve		°C		90	90	90
	Opening Pressure of T&P Relief Valve		mPa - bar		1.0 - 10	1.0 - 10	1.0 - 10
Unit	Material				Stainless steel	Stainless steel	Stainless steel
	Nominal Storage Capacity Of Units		litres - kg		150 - 181	210 - 251	300 - 360
	Insulation				Polyurethane foam	Polyurethane foam	Polyurethane foam
	Height - Diameter		mm		1090 - 550	1474 - 550	2040 - 550
Electrical	Weight Net		kg		31	41	60
	Heater		kW		2.75	2.75	2.75
	Power Supply		V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply		A		16	16	16
DOMESTIC HOT WATER TANK RETAIL PRICE					£1,194	£1,392	£1,636



Estia Air-to-Water Heat Pump - R410A (continued)

HYDRO UNIT			HWS-	455XWHM3-E	805XWHM3-E	805XWHT6-E	805XWHT9-E	1405XWHM3-E	1405XWHT6-E	1405XWHT9-E
Heat Exchanger	Type			Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C		20-55	20-55	20-55	20-55	20-55	20-55	20-55
	Operation Temperature Range Cooling	°C		07-25	07-25	07-25	07-25	07-25	07-25	07-25
	Piping Maximum Length/Minimum Flow Rate	m/l/m		None/13+	None/13+	None/13+	None/13+	None/17.5+	None/17.5+	None/17.5+
	Piping Maximum Height Difference	m		±7	±7	±7	±7	±7	±7	±7
	Piping Maximum Working Pressure ⁴	kPa		300	300	300	300	300	300	300
	Heat Exchanger Volume	litres		0.67	0.67	0.67	0.67	1.18	1.18	1.18
	Heat Exchanger Minimum Flow Rate	l/m		13.0	13.0	13.0	13.0	17.5	17.5	17.5
Circulating Pump	Type			Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Maximum Motor Output	W		125	125	125	125	190	190	190
	Flow Rate	l/m		12.9	22.9	22.9	22.9	32.1/40.1/45.8	32.1/40.1/45.8	32.1/40.1/45.8
	Power Input	W		48	48	48	48	87	87	87
	Delivery Head	m		6.3	6.3	6.3	6.3	8.8	8.8	8.8
	Expansion Vessel Volume	litres		12	12	12	12	12	12	12
	Expansion Vessel Initial Pressure	mPa - Bar		0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
	Pressure Relief Valve Operating Pressure	mPa - Bar		0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3
	Pressure Relief Valve Operating Pressure	dB(A)		27	27	27	27	29	29	29
Sound ⁶	Pressure Level	dB(A)		27	27	27	27	29	29	29
Pipe Connection	Water Pipe Outlet/Inlet	mm		R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4
	Refrigerant Piping (gas - liquid)	inch		5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Port Hose Inner Diameter	mm		16	16	16	16	16	16	16
Unit	Height x Width x Depth	mm		925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
	Weight	kg		49	49	49	49	54	54	54
	Back Up Heater Power Supply	V/ph/Hz		220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Back Up Heater Power/Maximum Current	A		3/13	3/13	6/13 (13A x 2P)	9/13 (13A x 3P)	3/13	6/13 (13A x 2P)	9/13 (13A x 3P)
	Hot Water Cylinder Heater Power Supply	V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Hot Water Cylinder Heater Maximum Current	A		12.0	12.0	12.0	12.0	12.0	12.0	12.0
	Remote Controller Standard Model ³			HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E

HYDRO UNIT PRICE	£3,640	£4,119	£4,279	£4,425	£5,250	£5,412	£5,440
------------------	--------	--------	--------	--------	--------	--------	--------

SYSTEM RETAIL PRICE	HWS-455H-E	£4,702	-	-	-	-	-
SYSTEM RETAIL PRICE	HWS-805H-E	-	£6,977	£7,137	£7,283	-	-
SYSTEM RETAIL PRICE	HWS-1105H-E	-	-	-	-	£8,608	£8,770
SYSTEM RETAIL PRICE	HWS-1405H-E	-	-	-	-	£8,962	£9,124
SYSTEM RETAIL PRICE	HWS-1105H8-E	-	-	-	-	£8,947	£9,109
SYSTEM RETAIL PRICE	HWS-1405H8-E	-	-	-	-	£9,243	£9,405
SYSTEM RETAIL PRICE	HWS-1605H8-E	-	-	-	-	£9,789	£9,951

Note: System retail price excludes domestic hot water tank.

Accessories

HWS-AMS54E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£140
TCB-PCMO3E	Input Signal PC Board	Estia room thermostat, emergency stop input signal	£78
TCB-PCIN3E	Output PCB	Interface provides an output for fault and run	£112

Note: The electric heater, incorporated in the hot water cylinder, requires separate supply to hydro unit.

¹ Heating performance measurement conditions: outside air temperature 7°C, water supply temperature 30°C, outlet temperature 35°C, refrigerant piping length 7.5 m (no height difference).

² Nominal heating capacity are given at water delta T° 5°C and rated compressor operating frequency in accordance with EN14511.

³ Max heating capacities are shown at peak value during operation, at max compressor operating range in accordance with EN14511.

⁴ Energy Efficiencies Class & Seasonal space heating energy efficiency (ηs) are provided for Average Climate conditions in accordance with EN14825.

⁵ Heating capacity at -7°C are shown at maximum compressor operating frequency in accordance with EN14511.

⁶ The outdoor unit operating noise is measured at the point of 1 m away from the unit back surface centre and 1 m high from the ground. The hydro unit operating noise is measured at the point of 1 m away from the unit front surface centre. The value of the operating noise varies depending on room structure where the unit is installed.



Estia Air-to-Water Heat Pump Powerful - R410A

CODE				80		110	
Outdoor Unit				HWS-	P805HR-E	P1105HR-E	
Hydro Indoor Unit				HWS-	P805XWH**-E	P1105XWH**-E	
Under Floor Heating	Nominal Heating Capacity ^{1 2}		+7°C	35°C	kW	8.00	11.20
	Max. Heating Capacity ³		+7°C	35°C	kW	16.92	18.05
	COP		+7°C	35°C	W/W	4.76	4.88
	Energy Efficiency Class - Low Temp Energy Label		35°C			A++	A+++
	Seasonal Space Heating Energy Efficiency ⁴		35°C		SCOP/ηs %	4.01/157%	4.48/175%
	Heating Capacity		-7°C	35°C	kW	9.38	9.74
	Max. Heating Capacity ⁴		-7°C	35°C	kW	11.92	12.79
	COP		-7°C	35°C	W/W	2.67	2.64
	Max. Heating Capacity		-15°C	35°C	kW	9.37	11.23
	Heating Capacity		-15°C	35°C	kW	7.26	8.06
Radiators Heating & DHW	COP		-15°C	35°C	W/W	2.18	2.18
	Max. Heating Capacity ^{1 2}		+7°C	45°C	kW	14.00	14.74
	Max. Heating Capacity ⁴		-7°C	45°C	kW	10.16	10.61
	Max. Heating Capacity		-15°C	45°C	kW	8.04	8.13
	Max. Heating Capacity		+7°C	55°C	kW	6.72	7.64
	Max. Heating Capacity		-7°C	55°C	kW	11.08	11.43
	Energy Efficiency Class - Low Temp Energy Label		55°C			8.40	8.42
	Seasonal Space Heating Energy Efficiency ⁴		55°C		SCOP/ηs %	A++	A++
	Nominal Cooling Capacity		35°C	7°C	kW	3.22/125%	3.38/131%
	EER		35°C	7°C	W/W	6.0	10.0
Operating Range	Space Heating Operation Outdoor			°C	-25 ~ 25	-25 ~ 25	
	Hot Water Operation Outdoor			°C	-25 ~ 43	-25 ~ 43	
	Cooling Operation Outdoor			°C	-10 ~ 43	-10 ~ 43	
Operating Range	Hydro Heating Operation Indoor			°C	+20 ~ 60	+20 ~ 60	
	Hydro Cooling Operation Indoor			°C	+07 ~ 25	+07 ~ 25	
Heating Condition	Input Power	35°C	7°C	kW	1.68	2.30	
	Rated Water Flow	35°C	7°C	l/m	22.9	32.1	
Sound ⁶	Sound Pressure Hydro/Outdoor			dB(A)	27/51	29/51	
	Sound Power Hydro/Outdoor			dB(A)	41/66	43/66	
Unit	Height x Width x Depth			mm	1340 x 900 x 320	1340 x 900 x 320	
	Weight			kg	92	92	
	Refrigerant Charge Amount/Chargeless to			kg/m	2.7/30	2.7/30	
Air Flow	Standard			l/s	1717	1717	
	Standard			m³/h	6180	6180	
Pipe Connection	Flare Connections (gas - liquid)			inch	5/8 - 3/8	5/8 - 3/8	
	Drain Port Connection			mm	16	16	
	Min.-Max. Length			m	5-30	5-30	
	Maximum Height Difference			m	±30	±30	
Electrical ¹¹	Hydro Unit Run Current Heating			A	0.44	0.66	
	Hydro Unit Power Input Heating			kW	0.06	0.09	
	Outdoor Unit Run Current Heating			A	7.57	10.33	
	Outdoor Unit Power Input Heating			kW	1.62	2.21	
	Total Run Current Heating			A	8.01	10.99	
	Power Supply			V/ph/Hz	220-240/1/50	220-240/1/50	
	Wiring Connection Power To Outdoor Unit				2 core + earth	2 core + earth	
	Power Cable From Outdoor To Hydro Unit				3 core + earth	3 core + earth	
	Suggested Fused Supply			A	20	20	
OUTDOOR RETAIL PRICE				£3,716	£3,773		

DOMESTIC HOT WATER TANK		HWS-	1501CSHM3-UK	2101CSHM3-UK	3001CSHM3-UK
Water	Volume	litres	150	210	300
	Maximum Temperature	°C	75	75	75
Operating Range	Standing Heat Loss	kWh/day	1.45	1.91	2.52
	Maximum Water Supply Pressure To PRV	mPa - bar	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0
	Operating Pressure Of Unit	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Vessel Charge Pressure	mPa - bar	0.35 - 3.5	0.35 - 3.5	0.35 - 3.5
	Expansion Valve Setting	mPa - bar	0.6 - 6.0	0.6 - 6.0	0.6 - 6.0
	Max. Primary Working Pressure	mPa - bar	0.3 - 3.0	0.3 - 3.0	0.3 - 3.0
	Opening Temperature of T&P Relief Valve	°C	90	90	90
	Opening Pressure of T&P Relief Valve	mPa - bar	1.0 - 10	1.0 - 10	1.0 - 10
Unit	Material		Stainless steel	Stainless steel	Stainless steel
	Nominal Storage Capacity Of Units	litres - kg	150 - 181	210 - 251	300 - 360
	Insulation		Polyurethane foam	Polyurethane foam	Polyurethane foam
	Height - Diameter	mm	1090 - 550	1474 - 550	2040 - 550
	Weight Net	kg	31	41	60
Electrical	Heater	kW	2.75	2.75	2.75
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply		A	16	16
	DOMESTIC HOT WATER TANK RETAIL PRICE		£1,194	£1,392	£1,636



Estia Air-to-Water Heat Pump Powerful - R410A (continued)

HYDRO UNIT		HWS-	P805XWHM3-E	P805XWHT6-E	P805XWHT9-E	P1105XWHM3-E	P1105XWHT6-E	P1105XWHT9-E
Heat Exchanger	Type		Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Water	Operation Temperature Range Heating	°C	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60
	Piping Maximum Length/Minimum Flow Rate	m/l/m	None/13+	None/13+	None/13+	None/13+	None/13+	None/13+
	Piping Maximum Height Difference	m	±7	±7	±7	±7	±7	±7
	Piping Maximum Working Pressure ⁴	kPa	300	300	300	300	300	300
	Heat Exchanger Volume	litres	0.67	0.67	0.67	1.18	1.18	1.18
	Heat Exchanger Minimum Flow Rate	l/m	13	13	13	17.5	17.5	17.5
Circulating Pump	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Maximum Motor Output	W	125	125	125	190	190	190
	Flow Rate	l/m	22.9	22.9	22.9	32.1	32.1	32.1
	Power Input	W	48	48	48	87	87	87
	Delivery Head	m	6.3	6.3	6.3	8.8	8.8	8.8
	Expansion Vessel Volume	litres	12	12	12	12	12	12
	Expansion Vessel Initial Pressure	mPa - Bar	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
	Pressure Relief Valve Operating Pressure	mPa - Bar	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3	0.3 - 3
Sound ²	Pressure Level	dB(A)	27	27	27	29	29	29
Pipe Connection	Water Pipe Outlet/Inlet	mm	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4	R1-1/4
	Refrigerant Piping (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Port Hose Inner Diameter	mm	16	16	16	16	16	16
Unit	Height x Width x Depth	mm	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
	Weight	kg	49	49	49	52	52	52
	Back Up Heater Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
	Back Up Heater Power/Maximum Current	A	3/13	6/13 (13A x 2P)	9/13 (13A x 3P)	3/13	6/13 (13A x 2P)	9/13 (13A x 3P)
	Hot Water Cylinder Heater Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Hot Water Cylinder Heater Maximum Current	A	12.0	12.0	12.0	12.0	12.0	12.0
	Remote Controller Standard Model ³		HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E	HWS-AMS54E
HYDRO UNIT PRICE			£4,119	£4,279	£4,425	£5,250	£5,412	£5,440
SYSTEM RETAIL PRICE			HWS-P805HR-E	£7,835	£7,995	£8,141	-	-
SYSTEM RETAIL PRICE			HWS-P1105HR-E	-	-	-	£9,023	£9,185
							£9,213	

Note: System retail price excludes domestic hot water tank.

Accessories

HWS-AMS54E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£140
TCB-PCMO3E	Input Signal PC Board	Estia room thermostat, emergency stop input signal	£78
TCB-PCIN3E	Output PCB	Interface provides an output for fault and run	£112

Note: The electric heater, incorporated in the hot water cylinder, requires separate supply to hydro unit.

¹ Heating performance measurement conditions: outside air temperature 7°C, water supply temperature 30°C, outlet temperature 35°C, refrigerant piping length 7.5 m (no height difference).

² Nominal heating capacity are given at water delta T° 5°C and rated compressor operating frequency in accordance with EN14511.

³ Max heating capacities are shown at peak value during operation, at max compressor operating range in accordance with EN14511.

⁴ Energy Efficiencies Class & Seasonal space heating energy efficiency (ηs) are provided for Average Climate conditions in accordance with EN14825.

⁵ Heating capacity at -7°C are shown at maximum compressor operating frequency in accordance with EN14511.

⁶ The outdoor unit operating noise is measured at the point of 1 m away from the unit back surface centre and 1 m high from the ground. The hydro unit operating noise is measured at the point of 1 m away from the unit front surface centre. The value of the operating noise varies depending on room structure where the unit is installed.

Controls

Toshiba offers different control solutions to meet end users' and designers' expectations. From local individual control and settings to computer-based TU2C or TCC-Link network, all indoor units can be programmed and set to suit the operational needs. Remote control systems offer a wide range of features including schedule timers, diagnostic functions, power meter, input/output signals, to name a few.

Toshiba offers a number of local control products that can be used to control a single indoor unit, or group of up to 8 indoor units, from a position adjacent to that indoor unit or group.

It is possible to install these local controllers up to 500 m from the connected indoor unit which allows greater flexibility when designing the installation. This also provides the opportunity to install the local controller in an area removed from the connected indoor unit, for example, common use areas where the indoor unit operation should not be changed by local users but may need to be monitored by a site engineer from a Control Room.

There are two different types of Local Remote Controller currently available from Toshiba, these are:

- The Wired Remote Controller which is the standard local control device suitable for most applications, and
- The Wireless Remote Controller which consists of a universal handset that can be purchased with a choice of 4 different wireless receiver units that are specifically designed to suit different indoor unit model types.



CONTROLS

Local Network and Black Pear

The Local Network

There are three different methods that can be used to connect the Local Control Device to the indoor unit, or group of indoor units.

1-to-1 connection

This method is for the connection of a single Wired Remote Controller, or Wireless Receiver Unit, to a single indoor unit.

Group connection

This method enables the connection of up to 8 indoor units to a single Wired Remote Controller, or Wireless Receiver Unit. In this configuration, up to 8 indoor units can be controlled simultaneously (all indoor units follow the same setting parameters) from a single Local Control Device.

Multiple controller connection

This method enables the connection of up to 2 Local Control Devices (Wireless Receiver Unit or Wired Controller) to a single indoor unit, or a group of up to 8 indoor units. In this configuration, Main/Sub settings must be configured for each of the connected Local Control Devices.



Infra-red



Wired Simplified



Wired Standard

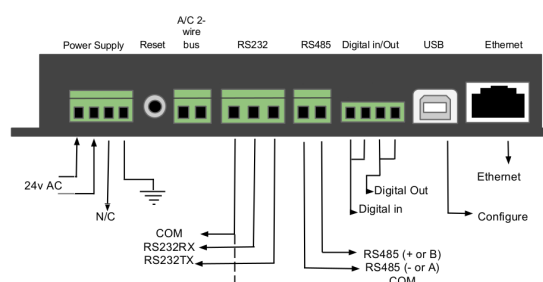


Wired Controller

Black Pear

The Black Pear Toshiba HVAC controller is the most versatile on the market, connecting directly to the 2-wire TCC-Link network and will control RAV 64 groups of up to 8 indoor units per group and VRF up to 64 indoor units.

The integrated LCD display provides an engineer's interface for local control, removing the need for a central controller and separate interface. The result saves time and space, and commissioning is made simple with free USB-based configuration software. The units will operate on systems with or without a central controller and supports Modbus, BACnet or Trend protocols. The device is easily configured to communicate with units in the same way that a standard central controller communicates with connected units. When the controller is powered it scans the entire network for all connected indoor units. The keypad controller can be used to operate all indoor units. This feature is very useful in the event of a BMS failure in providing and enabling continuous communication. The controller can be configured by a PC interface to group units and name zones.



CONTROLS

Touch Screen Controller and BACnet

Touch Screen Controller

RBC-TBPTS

Our latest generation Toshiba Touch Screen Controller provides a modern compact approach to management control technology utilising easy-to-use icons and simple intuitive navigation to deliver sophisticated strategies that provide precise control and data analysis.

The Toshiba Touch Screen Controller is simple to install and configure and offers three levels of operation: general user, building manager and engineering - all password-protectable. The Toshiba Touch Screen Controller features a built-in web browser interface, air conditioning status, unit enable and disable, time and alarm management control and fault indication.

TCS Net Relay Interface BMS-IFLSV4E

The Relay Interface connects to the Touch Screen Controller via the RS485 Network using connections A & B. The air conditioning network connects to terminals U1 & U2 (U3 & U4 at the outdoor unit) and a maximum of 64 indoor units may be served. The relay interface requires a 240 V 3 A mains power supply.



Energy-Monitoring Relay Interface BMS-IFWH5E

The Energy-Monitoring Relay Interface connects to the RS485 Network and provides a means of interface to the pulse power meters. Up to eight power meters can be connected to each Relay Interface.

Digital Input/Output Relay Interface BMS-IFDD03E

The D/I module connects to the RS485 Network and provides 8 inputs and 4 outputs, which could be used to interface a fire alarm system or a room occupancy sensor. The D/I module output could be used as a means of remote fault indication to another system.

BACnet

BMSIFBN640UE/BMSIFBN640TLE

The BACnet solution allows Toshiba indoor units to be connected to a BACnet over IP-based BMS. The gateway uses all standard BACnet objects for the control and monitoring of each indoor unit. The BACnet solution is intended for use on systems where control of the air conditioning is being carried out by another system that is part of the wider BMS for a large building. BACnet is a standard protocol adopted by many BMS companies as a standard network protocol they support.



CONTROLS

Windows Package and Smart Manager Controller

Windows Package

RBC-WP1-PE

The RBC-WP1-PE is a front-end software package that controls all aspects of the air conditioning systems installed on a site. The software is installed on a PC, which then connects to a TCB-IFLN642TLE LonWorks gateway for connection to the indoor units. The software allows all of the unit's operating parameters to be adjusted from the one PC. It allows faults to be reported and re-transmitted via email, fax or text message. The software can be accessed remotely either by telephone or via the Internet. The software can log data and provide graphical representation of data. It has a schedule built-in for time control and it can also be used to reset set points or modes of operation.

Energy-monitoring software

RBC-EM1-PE

The energy-monitoring software can be included to calculate the running costs of individual indoor units. This data can then be provided in structured bills for the building tenants. This data is calculated from the demand given from the indoor units and the power consumed by the system. The RBC-EM1-PE power meter is required for this function (one for each system).

Smart Manager Controller

Smart Manager Data Analyser

BMS-SM1281ETLE

The Smart Manager is a product that is capable of controlling 128 indoor units from a single location. The device has the facility to set all of the operating parameters for individual or zoned indoor units, whether they are VRF or individual split systems. It is also capable of displaying individual fault codes for any units on the network.

The Smart Manager can be remotely connected via a PC and all functions can be controlled via Internet Explorer. This controller can also be linked to energy-monitoring relay interfaces for the collection of data for energy billing. The controller can also be linked to the digital input/output module for the interface to other systems.

The Smart Manager has some advanced functions for different users which can be configured to give restricted access. The controller has an advanced time clock function to give the building owner flexibility. The controller has a return back function, which returns the unit settings to a predetermined setting after a period of time. All of these functions are accessed via the web interface.

Control of other devices

RBC-DI1-PE

The Digital Input/Output module that is used to control other plant systems. For example, we can enable boilers or other air handling units. The module can accept inputs also; examples would be an input from a fire alarm where the air conditioners are shut down or an input to switch on the air conditioners from an external source.



Energy-Monitoring Relay Interface

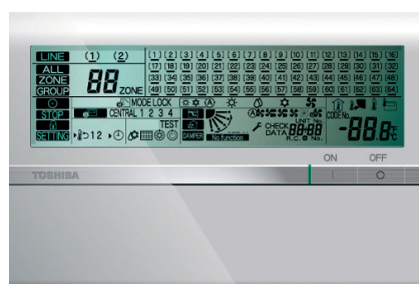
BMS-IFWH5E

The energy-monitoring Relay Interface connects to the RS485 Network and provides a means of interface to the pulse power meters. Up to eight power meters can be connected to each Relay Interface.

Digital Input/Output Relay Interface

BMS-IFDD03E

The D/I module connects to the RS485 Network and provides 8 inputs and 4 outputs, which can be used to interface a fire alarm system or a room occupancy sensor. The D/I module output can be used as a means of remote fault indication to another system.



BMS Interfaces

LonWorks Gateway

TCB-IFLN642TLE

The LonWorks Gateway is a device that allows the Toshiba indoor units to be connected to a LonWorks-based BMS. The gateway uses all standard network variables contained in individual function blocks for each indoor unit. The gateway can communicate with up to 64 indoor units on a U1/U2 Network. The device is used to connect to a LonWorks Network, with which many BMS companies are able to communicate (open network protocol).

All of the data for each indoor unit is available on the LonWorks Network; there are twenty-nine standard network variables for each indoor unit, all of which are available on the gateway.



The gateway connects to the air conditioner network via the U1 & U2 connections, with a maximum of 64 indoor units served. The gateway requires a 240 V 3 A mains supply.

Modbus Gateway

BMSIFMB640UE/TCBIFMB641TLE

The Modbus interface connects Toshiba air conditioning systems to a Modbus Building Management System. The interface connects directly to the Toshiba TU2C or TCC-Link Central Control Network and can be wired to indoor or outdoor units depending on preference. The interface uses Modbus RTU protocol based on RS-485 type serial communications protocol to connect to a suitable Modbus Master device. This allows control of all connected Toshiba air conditioning equipment from that BMS control system.



One Toshiba Modbus interface can be connected to a single TU2C or TCC-Link Network and addressed using simple switches provided on the device. This is to enable ease of installation, especially in buildings with separate areas where one Interface may be used for each area/floor. A maximum of 64 indoor units/groups and 16 outdoor systems can be connected to a single Modbus interface.

BMS Analogue/Modbus Individual or Group Interface

RBC-TSI1

The RBC-TSI1 is a versatile interface for Toshiba air conditioning units, offering a wide range of external control facilities.

The unit attaches to the TCC-NET A/B network. It is network powered and may be used with or without a remote controller being present.

Up to eight indoor units may be monitored and controlled as a group by a single RBC-TSI1.

Hardware Interface:

Six analogue control inputs selectable as resistance or 0-10 V DC. Two relay outputs for 'Run' and 'Error' rated 24 V 0.1 A.

Serial Interface:

RS485 serial Modbus connection with slave addresses from 1 to 254 and configurable baud rates and parity. Modbus may be used for monitoring and control or to allow the operation of up to sixteen units in a 'Master/Slave' configuration.



Operating Modes:

Several modes of operation are available including special modes for energy saving and hotel applications. Modes are selected by a link and bit switches.

Available modes:

1. Standard operation with the facility to interconnect up to 16 units as a 'Master/Slave' group
2. As (1) for VN units
3. Preset mode operation
4. Local/Restore mode
5. Duty/Standby operation
6. Eco-1 (Timed Fan)
7. Eco-2 (Fan Band)
8. Hotel mode
9. AHU mode

CONTROLS

Remote Controllers For Use With RAV And VRF Indoor Units

Wired Remote Controller

Accessory	RBC-AMTU31E RBC-AMT32E	RBC-AMS41E	RBC-AMSU51-ES	RBC-AMTU01VE NRC-01HE	RBC-AS41E	RBC-ASCU11E RBC-ASC11E	RBC-MTSC1	RBC-MTSC2
								
ON/OFF	✓	✓	✓	✓	✓	✓	✓	✓
Mode	✓	✓	✓	✓	-	✓	✓	✓
Setting Temperature	✓	✓	✓	✓	✓	✓	✓	✓
Fan Speed	✓	✓	✓	✓	✓	✓	✓	✓
Timer Function	✓	✓	✓	✓	-	✓	-	✓
Schedule Function	-	✓	✓	-	-	-	-	✓
Multi Language	-	-	✓	-	-	✓	-	-
Energy Save Function	✓	✓	✓	✓	-	-	-	-
Filter Dirty Indicator	✓	✓	✓	✓	-	✓	-	-
Error Display	✓	✓	✓	✓	✓	✓	✓	✓
Dual Automatic Mode	-	-	✓	-	-	-	-	-
Soft Cooling	-	-	✓	-	-	-	-	-

Wireless Remote Controller

Accessory	RBC-AXU31U-E RBC-AX32U(W)-E	RBC-AXU31C-E RBC-AX33CE	RBC-AXU31E TCB-AX32E2	RBC-AXU31UW-E RBC-AX32UW(W)-E
				
ON/OFF	✓	✓	✓	✓
Mode	✓	✓	✓	✓
Setting Temperature	✓	✓	✓	✓
Fan Speed	✓	✓	✓	✓
Timer Function	✓	✓	✓	✓
Schedule Function	-	-	-	-
Multi Language	-	-	-	-
Energy Save Function	-	-	-	-
Filter Dirty Indicator	-	-	-	-
Error Display	✓ (*)	✓ (*)	✓ (*)	✓ (*)
Dual Automatic Mode	-	-	-	-
Soft Cooling	-	-	-	-

(*):The error indication is displayed with LED of the receiver unit

Notes for comparison table opposite:

- [Note 1] Not provided on the concealed duct high static pressure type 8-10 hp.
- [Note 2] No function for concealed duct standard type, high static pressure type, floor-standing cabinet type, floor-standing concealed type, and slim duct type.
- [Note 3] The Automatic operation is not available for SMMS series units other than Super Heat Recovery Multi types. The receiving unit lamp blinks, and the alarm sound is emitted. Change to another operation mode. The alarm sound is also emitted on the Cooling only models, and the Automatic operation is not available.
- [Note 4]
- DN code 32 setting is necessary for remote controller sensor.
 - Be careful that the surrounding air flow of the remote temperature sensor is not poor.
 - When using 2 remote controllers, the Header controller is recognised as remote sensor though the temperature can be set from either Header or Follower remote controller.
 - Do not use remote sensor in case of group control except DI/SDI.
- [Note 5] Select the remote sensor switch on the controller.
- [Note 6] Wireless type max. 6 address setting. The address switch position on both receiver and controller shall be selected.
- [Note 7] The actual functions depend on the air conditioner.
- [Note 8] Another 200 m for indoor to indoor wiring.
- [Note 9] For settings, refer to the installation manual of RBC-AMSU51-ES.

CONTROLS

Controller Comparison Table

Wired Remote Controller



Model Name		RBC-AMTU31E RBC-AMT32E	RBC-AMS41E	RBC-AMSU51-ES	RBC-AMTU01VE NRC-01HE	RBC-ASCU11E RBC-ASC11E	RBC-AS41E	RBC-MTSC1	RBC-MTSC2
Part name		Standard	With schedule timer	With LCD display and backlight	For air-to-air heat exchanger	Compact simple wired remote controller	Simple wired remote controller	Compact simple wired touch screen controller	Compact simple wired touch screen controller
Dimension (H x W x D)	Handset	120 x 120 x 16 mm	120 x 120 x 16 mm	120 x 120 x 20 mm	120 x 120 x 16 mm	86 x 86 x 16 mm	120 x 70 x 16 mm	74 x 141 x 15 mm	74 x 141 x 15 mm
Installation Place		Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Max. Wired Length [Note 8]		500 m	500 m	500 m	500 m	500 m	500 m	500 m	500 m
ON/OFF		✓	✓	✓	✓	✓	✓	✓	✓
Mode	Auto [Note 3]	✓	✓	✓	✓	✓	✓	✓	✓
	Cool	✓	✓	✓	✓	✓	✓	✓	✓
	Heat	✓	✓	✓	✓	✓	✓	✓	✓
	Dry [Note 1]	✓	✓	✓	✓	✓	✓	✓	✓
	Fan	✓	✓	✓	✓	✓	✓	✓	✓
Temperature Setting Range	Auto [Note 3]	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C
	Cool	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C
	Heat	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C
	Dry [Note 1]	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C	18-29°C
Fan		Auto/Low/Med/High	✓	✓	✓	✓	✓	✓	✓
Louvre Position [Note 2]		✓	✓	✓	✓	✓	✓	✓	✓
Ventilation Control		✓	✓	✓	✓	-	✓	-	-
Filter Sign/Reset		✓	✓	✓	✓	-	-	✓	✓
Return Back		-	-	✓	-	-	-	-	-
Power Save [Note 7]		✓	✓	✓	✓	-	-	-	-
Individual Louvre [Note 7]		-	-	-	-	-	-	-	-
Frost Protection (heating at 8 °C) [Note 7]		✓	✓	✓	✓	-	-	-	-
Self-Cleaning Mode [Note 7]		-	-	✓	-	-	-	-	✓
Clock		-	-	✓	-	-	-	-	-
ECO/Hi-POWER/MEMO/AUTO		-	-	✓	-	-	-	-	-
Grille Up/Down [Note 7]		-	✓	-	-	-	-	-	-
Function Setting (DN code)		✓	✓	✓	✓	-	-	✓	✓
Temperature Sensor [Note 4]		✓	✓	✓	✓	✓	✓ [Note 5]	✓ [Note 5]	✓ [Note 5]
Header/Follower	Header	✓	✓	✓	✓	✓	✓	✓	✓
	Follower	✓	✓	✓	✓	✓	✓	-	-
Multiple Control [Note 6]		Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group
Timer		Off/repeat off/on	Off/repeat off/on	Off/repeat off/on	Off/repeat off/on	Off/repeat off/on	-	-	Off/repeat off/on
Weekly Schedule		-	✓ 7 day timer, 8 functions for each day of the week	✓ 8 programs/day, holiday setting	-	-	-	-	✓ 8 programs/day, holiday setting
Connect to Schedule Timer (TCB-EXS21TLE)		✓	-	-	✓	-	-	-	-
Error Output		✓	✓	✓	✓	✓	✓	-	-
Error History		✓ 4 history	✓ 4 history	✓ 10 history	✓ 4 history	✓ 4 history	-	-	✓
Air-to-Air Heat Exchanger with DX Coil Unit	On/Off	✓	✓	✓ [Note 9]	✓	-	-	-	-
	Mode	-	-	✓ [Note 9]	✓	-	-	-	-
	Fan Speed	-	-	✓ [Note 9]	✓	-	-	-	-

Wireless Remote Controller

Model Name		RBC-AXU31U-E RBC-AX32U(W)-E (WH-L11SE)	RBC-AX33UYPE RBC-AXU31C-E RBC-AX33CE (WH-L11SE)	RBC-AXU31UM-E RBC-AX32UM(W)-E (WH-L11SE)	RBC-AXU31UW-E RBC-AX32UW(W)-E (WH-L11SE)	RBC-AXU31-E TCB-AX32E2 (WH-L11SE)	RBC-AX41U(W)-E (WH-L11SE)	WH-TA09NE
Part Name		For 4-way air discharge cassette	For ceiling 8 series, 1-way air discharge cassette SH	For compact 4-way cassette 7 series	For 2-way air discharge cassette	For compact 4-way cassette 4 series, 1-way air discharge cassette YH, standard duct, slim duct, floor-standing cabinet, floor-standing	For 4-way air discharge cassette	For high-wall 7 series
Dimension	Handset	157 x 56 x 19 mm	157 x 56 x 19 mm	157 x 56 x 19 mm	157 x 56 x 19 mm	157 x 56 x 19 mm	157 x 56 x 19 mm	-
	Receiver	-	-	-	-	120 x 70 x 18.2 mm	-	Receiver included
Installation Place		Inside indoor (receiver)	Inside indoor (receiver)	Inside indoor (receiver)	Inside indoor (receiver)	Wall (receiver)	Inside indoor (receiver)	-
Max. Wired Length [Note 8]		400 m	400 m	400 m	400 m	400 m	400 m	-
On/Off		✓	✓	✓	✓	✓	✓	✓
Mode	Auto [Note 3]	✓	✓	✓	✓	✓	✓	✓
	Cool	✓	✓	✓	✓	✓	✓	✓
	Heat	✓	✓	✓	✓	✓	✓	✓
	Dry [Note 1]	✓	✓	✓	✓	✓	✓	✓
	Fan	✓	✓	✓	✓	✓	✓	✓
Temperature Setting Range	Auto [Note 3]	17-30°C	17-30°C	17-30°C	17-30°C	17-30°C	17-30°C	17-30°C
	Cool	17-30°C	17-30°C	17-30°C	18-30°C	17-30°C	17-30°C	17-30°C
	Heat	17-30°C	17-30°C	17-30°C	16-30°C	17-30°C	17-30°C	17-30°C
	Dry	17-30°C	17-30°C	17-30°C	18-30°C	17-30°C	17-30°C	17-30°C
Fan		Auto/Low/Med/ High	✓	✓	✓	✓	✓	✓
Louvre Position [Note 2]		✓	✓	✓	✓	✓	✓	✓
Ventilation Control		-	-	-	-	-	-	-
Filter Sign/Reset		-/-	-/-	-/-	-/-	-/-	-/-	-/-
Return Back		-	-	-	-	-	-	-
Clock		✓	✓	✓	✓	✓	✓	✓
ECO/Hi-POWER/MEMO/AUTO		✓	✓	✓	✓	✓	✓	✓
Grille Up/Down [Note 7]		-	-	-	-	-	-	-
Function Setting (DN Code)		-	-	-	-	-	-	-
Temperature Sensor [Note 4]		-	-	-	-	-	-	-
Header/Follower	Header	✓	✓	✓	✓	✓	✓	✓
	Follower	✓	✓	✓	✓	✓	✓	-
Multiple Control [Note 6]		Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	Max. 2/1 indoor or 1 group	One wireless only
Timer		Off/on/on-off/ daily	Off/on/on-off/ daily	Off/on/on-off/ daily	Off/on/on-off/ daily	Off/on/on-off/ daily	Off/on/on-off/ daily	Off/on/on-off/ daily
Error Output		✓ LED on receiver	✓ LED on receiver	✓ LED on receiver	✓ LED on receiver	✓ LED on receiver	✓ LED on receiver	-

TOSHIBA

CONTROLS

> DO YOU WANT A SMART SOLUTION TO GIVE YOUR FAMILY GREATER COMFORT WHILE EASILY MANAGING YOUR ENERGY SAVINGS?

● MULTIPLE UNITS, ONE APP

- 1 user can control up to 10 AC units
- 1 AC unit can be controlled by up to 5 users

● EASY GROUPING

- Make control simple by grouping your AC units in up to 3 zones

● SECURE CONNECTIONS

- Password and login
- Child-lock function

● COMPATIBLE PRODUCTS

- DAISEIKAI 9, SHORAI, Console, SEIYA

● DOWNLOAD YOUR APP

- Toshiba AC Control App for your Android and iOS smartphone from Google Play or the App Store

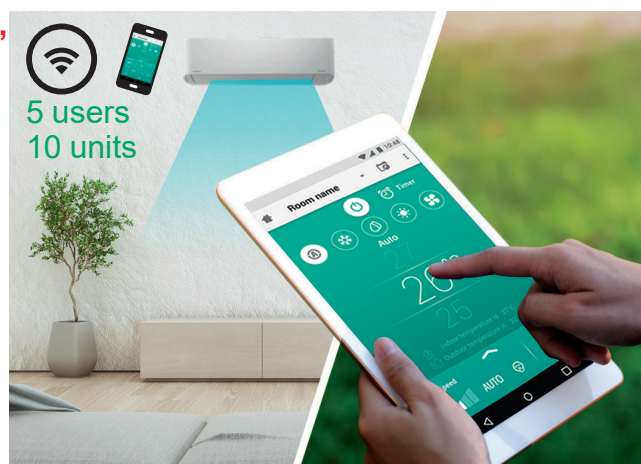


Take complete control of your comfort with the Toshiba Home AC Control App. Simple to use on your smartphone or tablet, both at home and on the move. Fully-compatible, the adapter can be used with all Toshiba High-Wall and Console units.



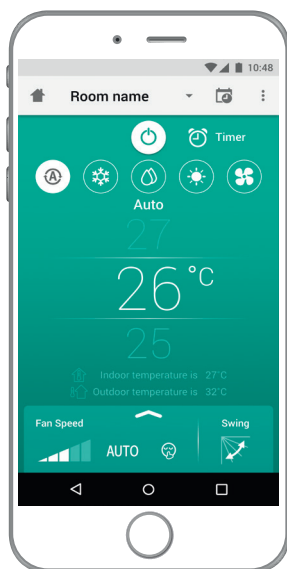
Enhance your comfort, at home or away

Customise your comfort, by finding the perfect cooling or heating level for your family at any time, no matter where you are. When at home, simply replace your infrared remote control with the intuitive smart app. This also gives you easy access to your air conditioner on the move, allowing you to adapt your comfort to your lifestyle!



Smart and efficient

- Want to go home and immediately enjoy an ideal temperature? Simply use the app to check the status, and quickly and easily adjust your comfort, no matter where you are.
- Match your AC schedule to your family's routine to optimise running time, and enjoy savings on your energy bill.



Modern app

• This user-friendly app is available in 5 languages, and boasts a host of intuitive features. It has a different colour for each different mode, and the main functions are accessible in just one touch.

• Toshiba premium features enable you to enjoy all the benefits of your AC systems at home. Simply swipe up on the main app screen on your smartphone or tablet to access additional Toshiba-specific features.

8°C

Holiday frost protection mode

Hi POWER

Boost mode



Fireplace mode



Silent CDU to reduce the outdoor unit noise level

PURE

Plasma and ionizer filters

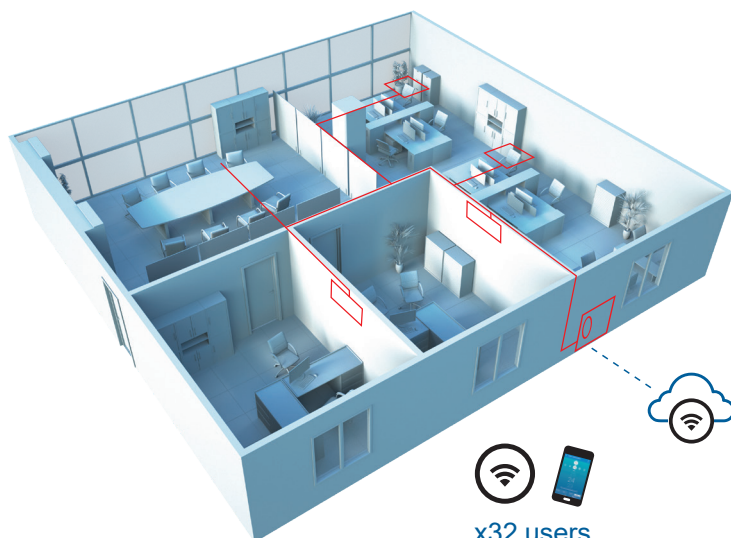
FLOOR

Floor function for consoles

CONTROLS

> DO YOU WANT FULL CONTROL OF YOUR AC SYSTEM IN ONE TOUCH, WHEREVER YOU ARE?

Designed for commercial applications, the Toshiba AC Control App is your one-stop solution for managing up to 32 indoor units via an Android or iOS smartphone, with all main functions accessible in a single touch.



x32 users
x1 administrator



BMS-IWF0320E

Solutions wherever you are

Toshiba technology you can trust. Fully-committed to providing creative building management solutions, designed to enhance your sustainable lifestyle.

Make it your own

With different access levels for different users, this app can be used by everyone from facilities managers to standard users to manage all of the unit's functions. For an enhanced level of security, a user name and password is needed to log in.

Everything you need in one app

All of the indoor unit's functions can be accessed in an instant, allowing you to enjoy the full advantages of the AC system at work. The entire system is simple to manage, even remotely.

• QUICK AND EASY

- Simplified installation with direct connection to the TU2C or TCC-Link bus line

• DESIGNED FOR YOU

- Up to 32 users for control of a maximum of 32 assigned indoor units
- Administrator mode for control of the entire system via a single app

• EVERYTHING UNDER CONTROL

- Optimise the management of your facilities without compromising comfort

• COMPATIBLE PRODUCTS

- MiNi SMMS-e, SMMS-u, SHRM-e and RAV systems

• DOWNLOAD YOUR APP

- Toshiba AC Control App for your Android and iOS smartphone from Google Play or the App Store



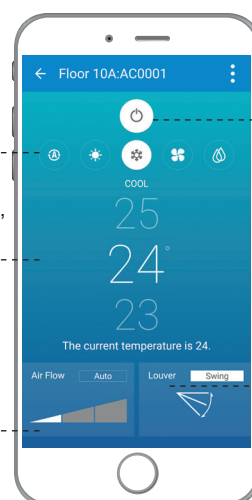
Mode
(heating, cooling, ventilation, dry, auto)

Temperature set point, ambient temperature information

Fan speed
(auto or manual)

On/Off

Louvre setting
(auto or manual)



Administrator-specific functions:

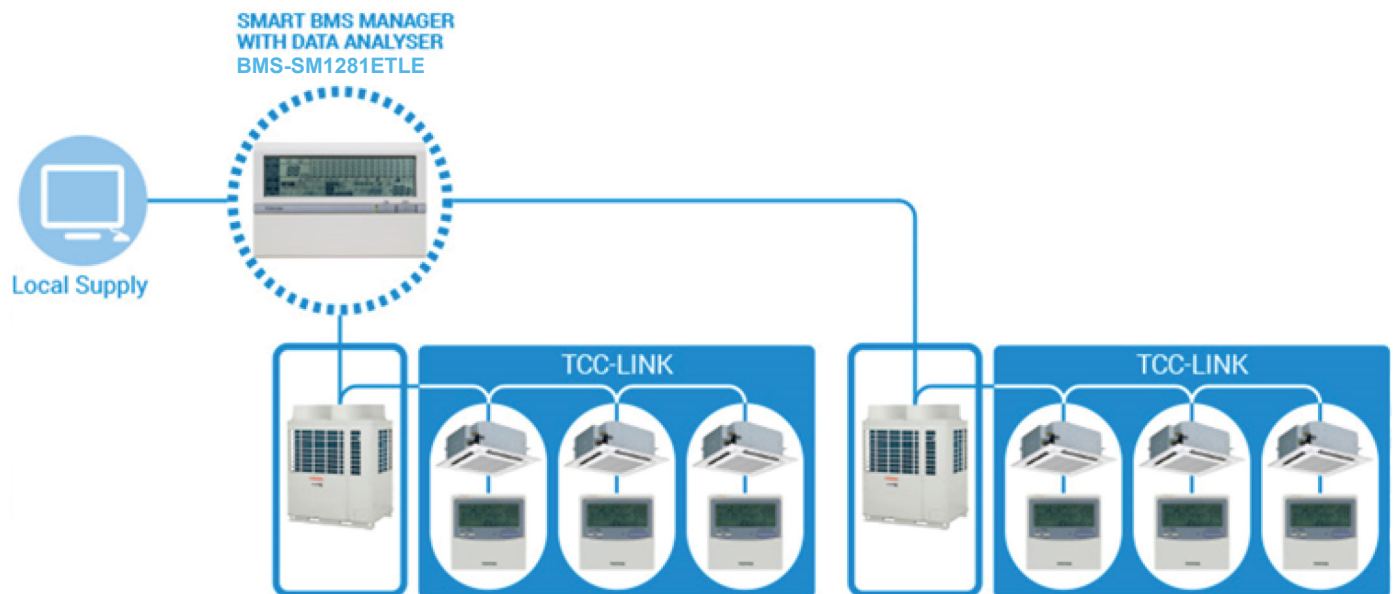
- Group control with on/off function for all devices
- User access restriction management and advanced mode

Network Controls

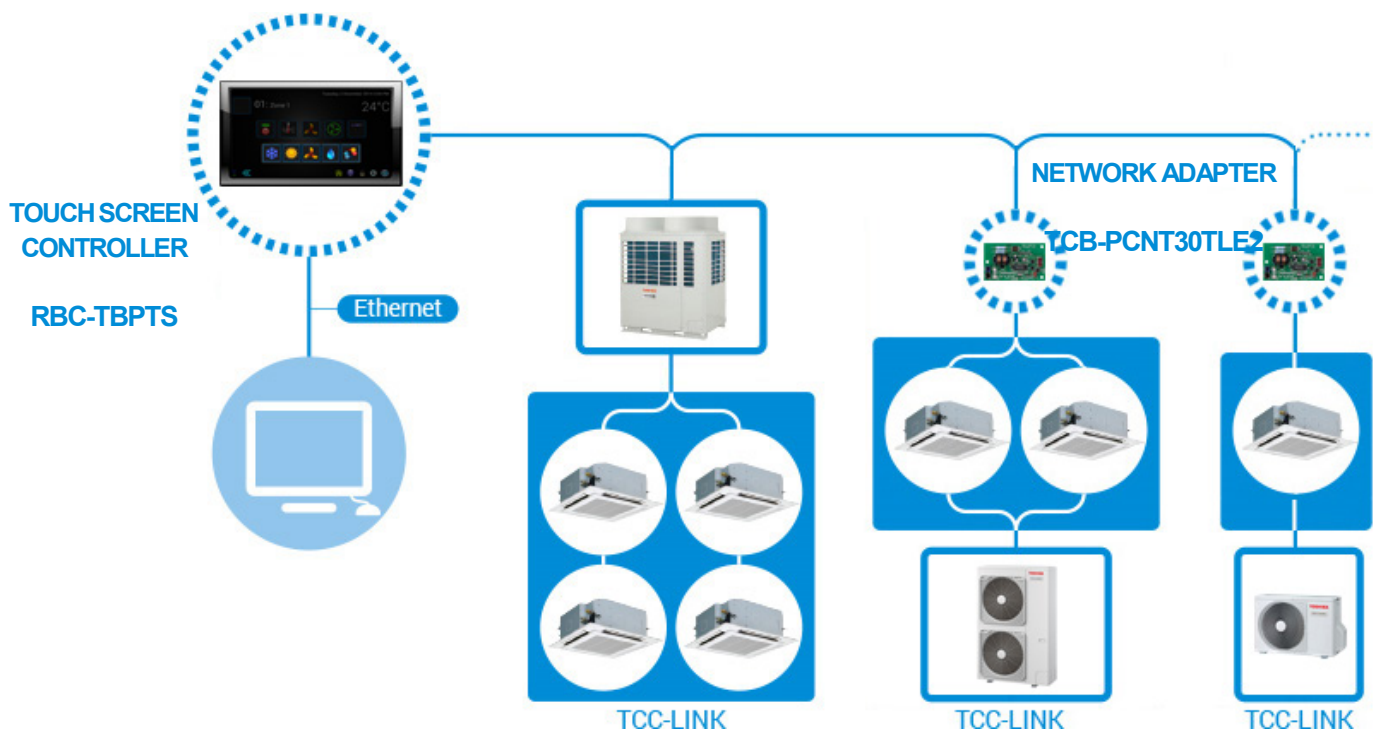
Toshiba offers a wide range of centralised network control solutions for a diverse range of building environmental management needs, such as remote network control, energy monitoring, report generation, advanced scheduling and others. What's more, comprehensive interface solutions provide easy installation and integration with leading building management systems.

Building Management Systems

Smart BMS Manager with Data Analyser



Touch Screen Controller



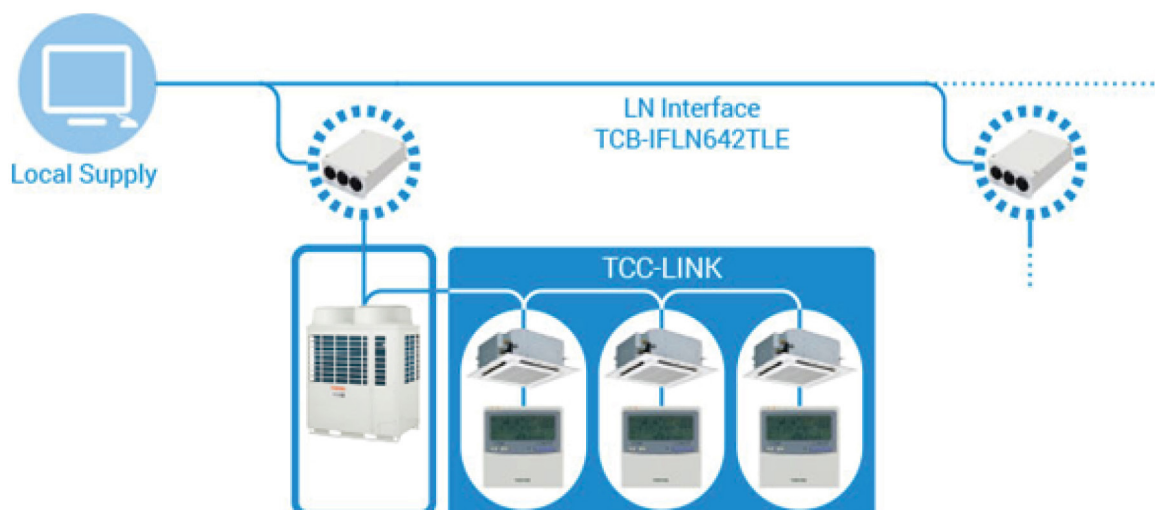
CONTROLS

Open Network Systems

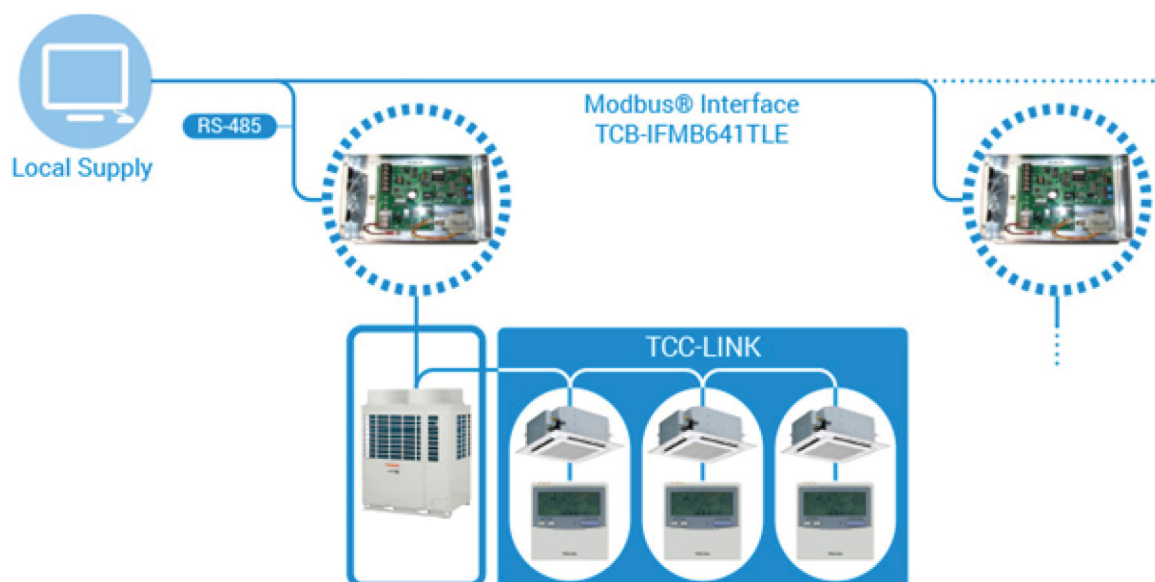
BACnet® System



LonWorks® System



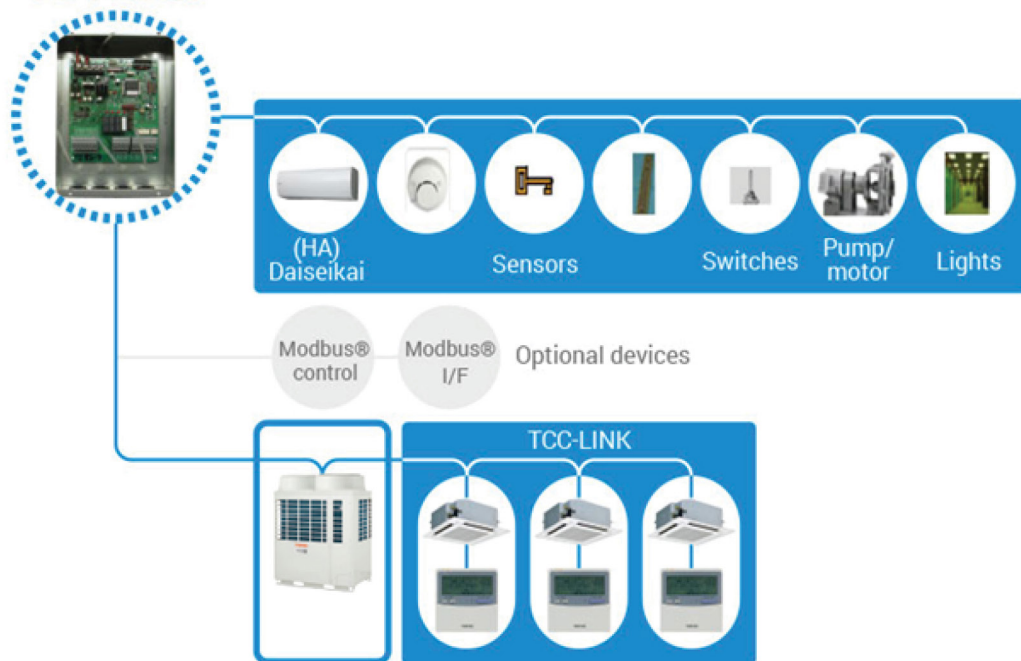
Modbus® System



CONTROLS

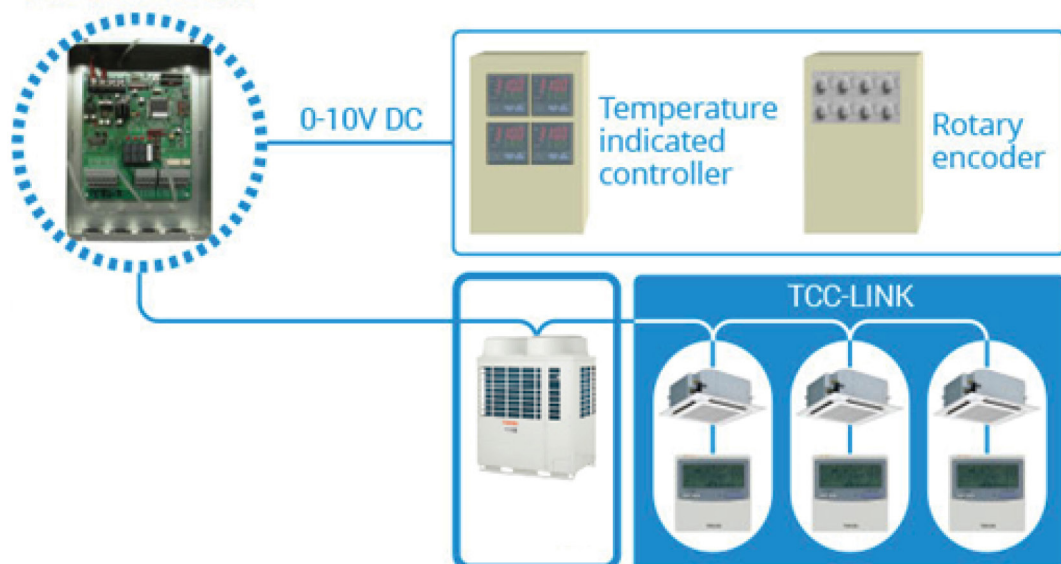
General Purpose Interface

General purpose interface
TCB-IFCG1TLE



Analog Interface

Analog interface
TCB-IFCB640TLE



CONTROLS

Central Remote Controllers and Schedule Timer

Accessory	RBC-TBPTS	BMSCT2560UE BMS-CT1280E	BMS-SM1281ETLE	TCB-SC640UE TCB-SC643TLE2
Type	Touch Screen Control Central Remote Control	Touch Screen Control Central Remote Control	Smart BMS Manager with Data Analyser	Central Remote Control
				
ON/OFF	✓	✓	✓	✓
Mode	✓	✓	✓	✓
Setting Temperature	✓	✓	✓	✓
Fan Speed	✓	✓	✓	✓
Timer Function	✓	✓	✓	✓
Schedule Function	✓	✓	✓	✓
Multi-Language	✓	✓	✓	-
Energy-Save Function	✓	✓	✓ (*2)	-
Permit/Prohibit Function	✓	✓	✓	✓
Filter Dirty Indicator	✓	✓	✓	✓
Error Display	✓	✓	✓	✓

(*1): Error can be recognised by blink of the button on the remote controller. However, error code is not displayed.

(*2): Schedule timer (TCB-EXS21TLE) needed.

BMS Control Interfaces

Accessory	RBC-BP2
Type	BACnet/Modbus/Trend
	
Start/Stop, Mode, Setting Temperature, Fan Speed	✓
Filter Dirty Indicator, Error Display	✓
Permit/Prohibit Function	✓
Schedule Timer Connection	✓
Schedule Function	✓
WEB Connection	✓
Option Interface Connection	-
Energy Monitoring	-
Multi-Language	-
Demand Function	-
Error Information Transfer Function by E-mail	✓

(*1) Digital I/O Relay Interface only.

(*2) Energy Monitoring Interface needed.

Additional Devices

Model Name	BMS-IFLSV4E	BMS-IFDDO3E	BMS-IFWH5E
Type	Relay Interface	Digital Input/ Output Interface	Energy Monitoring Interface
			
TCC-Link Line	✓ (1 Line)	-	-
Option Interface Connection	-	✓	-
Energy Monitoring	-	-	✓
Digital Input/Output	-	8/4	8/-

Open Network Interface

Accessory	TCB-IFLN642TLE	
Type	LN Interface	
		
Object	Command	Monitoring
ON/OFF Status	✓	✓
Operation Mode	✓	✓
Fan Speed	✓	✓
Louvre	✓	✓
Set Temperature	✓	✓
Filter Dirty Indicator	✓	✓
Room Temperature	-	✓
Permit/Prohibit of Local Operation	✓	✓
Error Status	-	✓
Error Code	-	✓

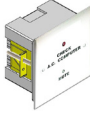
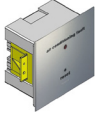
Leak Detection and Containment - Panels

Leak Detection Panel		TCB-LD1	TCB-LD2UK	TCB-LD2	RBC-RP1
Repeater & Remote Indication Panels					
Standard Rating	IP	50	65	55	-
Enclosure		FRABS (UL 94-V0 Plastic)	Metal	Metal	Metal
Colour		Black	Light grey RAL 7035	Light grey RAL 7035	Light grey RAL 7035
Height	mm	114	400	400	500
Width	mm	194	300	300	400
Depth	mm	62	155	155	150
Weight	kg	0.7	10	10	15
Isolating Gas Valve (Supplied Loose)	mm	-	Sold Separately TCB-AW#	Sold Separately TCB-AW#	-
Isolating Liquid Valve (Supplied Loose)	mm	-	Sold Separately TCB-AW#	Sold Separately TCB-AW#	-
Isolating Suction Valve (Supplied Loose)	mm	-	Sold Separately TCB-AW#	Sold Separately TCB-AW#	-
Sensor(s) Type (Supplied Loose)		-	-	-	-
Interface Cards (Supplied Loose) *Sold Separately		-	*1 x TCB-PCMO4E *1 x TCB-PCIN4E	*1 x TCB-PCMO4E *1 x TCB-PCIN4E	-
Audible Alarm		-	Yes	Yes	Yes
Audible Alarm Sound Level	dB	-	80 (2300 Hz ±300)	80 (2300 Hz ±300)	-
Alarm Mute		-	Yes	Yes	Yes
Visual Indicator (Neon)		Alarm	Internal External CDU 7-segment	Internal External CDU 7-segment	Live Healthy Alarm
Fault Code Generated To Local Remote Controller		L30	L30 or CDU P15 algorithm	L30 or CDU P15 algorithm	-
Interconnecting Cable Max. Length	m	24	-	-	100
Interconnecting Cable Type	mm ²	1.00	-	-	3 core 1.5
Interconnecting Cable Type Remote Indication		-	-	-	2 core 0.75
Control Circuit Power	Volts	230	24	24	24
Remote Indication Relay	Volts	-	0	-	-
Low Ambient Tape Heater	Watts	-	14	-	-
Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Suggested Fused Supply	A	1	3	3	6
Interface Card(S) (Required Accessory) *Max. 4 Circuits		-	-	-	*RBC-RI1
In Room Detector (Required Accessory)		TCB-LDS1 or TCB-LDS2	TCB-LDS1/TCB-LDS2	TCB-LDS1/TCB-LDS2	TCB-LDS1/TCB-LDS2
RETAIL PRICE		£218	£2,065	£1,593	£1,568

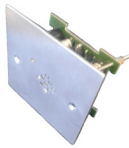
Isolation Valves For TCB-LD2UK	TCB-	AW17861	AW17862	AW17863	AW17864	AW17865	AW17866	AW17867
Model Series		I	I	I	I	II	II	II
Refrigerant Pipe Connection (In & Out)	inch	1/2	5/8	3/4	7/8	1-1/8	1-3/8	1-5/8
Weight	kg	1	1.08	1.09	1.1	1.41	2.51	3.15
Running Time (Open - Close)	Sec	125	125	125	125	150	150	150
Ambient Operation Limitations	°C	-32 to 55	-32 to 55	-32 to 55	-32 to 55	-32 to 55	-32 to 55	-32 to 55
Ambient Humidity Limitations	rh %	95	95	95	95	95	95	95
Power Consumption	VA	2.3	2.3	2.3	2.3	3	3	3
Operating Voltage	Vac	24 ±20% or -15%	24 ±20% or -15%	24 ±20% or -15%	24 ±20% or -15%	24 ±20%	24 ±20%	24 ±20%
Operation Frequency	Hz	50	50	50	50	50	50	50
IP Rating	IP	54	54	54	54	54	54	54
Model Group Cyclomaster		Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves	Actuated Ball Valves
Refrigerant Function (Gas & Liquid)		Isolation Pipework	Isolation Pipework	Isolation Pipework	Isolation Pipework	Isolation Pipework	Isolation Pipework	Isolation Pipework
RETAIL PRICE		£330	£330	£357	£392	£539	£567	£587

CONTROLS

Leak Detection and Containment - Repeaters

Repeater & Remote Indication Panels		RBC-AIP1	RBC-AIP2	RBC-AIP3	RBC-AIP4	RBC-RI1
Leak Detection Room Indicator						
Refrigerant Leak Detector						
						
Enclosure		Metal	Metal	Metal	Plastic	Plastic
Colour		Light grey RAL 7035	Light grey RAL 7035	Light grey RAL 7035	White	White
Colour Cost Option Upgrade	Various	-	-	-	Fascia Plate	Fascia Plate
Height	mm	500	500	500	92	92
Width	mm	400	400	400	92	92
Depth	mm	150	150	150	60	60
Weight	kg	15	15	15	0.2	0.2
Audible Alarm		Yes	Yes	Yes	Yes	Yes
Audible Alarm Sound Level	dB	-	-	-	95 (3400 Hz ±500)	95 (3400 Hz ±500)
Alarm Mute		Yes (Key Switch)	Yes (Key Switch) & Remote	Yes (Key Switch)	Mute Button/Powered OFF	Mute Button/Powered OFF
Visual Indicator (Neon)		Live Healthy Alarm	Live Healthy Alarm	Live Healthy Alarm	Yes	Yes
Interconnecting Cable Max. Length	m	100	100	3	100	100
Interconnecting Cable Type	mm ²	3 core 1.5	3 core 1.5	USB	3 core 1.5	3 core 1.5
Interconnecting Cable Type Remote Indication		-	2 core 0.75	-	-	-
Control Circuit Power	Volts	24	24	24	24 (via RP1)	24 (via RP1)
Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	Battery Back-up	-	-
Suggested Fused Supply	A	6	6	-	(via RP1)	(via RP1)
Interface Card(S) (Required Accessory)		inc. RBC-DI1	inc. RBC-DI1	-	-	-
*Max. 4 Circuits						
On-site Commissioning Support		-	-	Half Day Included	-	-
RETAIL PRICE		£1,813	£2,973	£1,581	£83	£87

Leak Detection and Containment - Detectors

Refrigerant Leak Detector		TCB-LDS1 (inc. TCB-LD12V)	TCB-LDS2 (inc. TCB-LD12V)
			
Enclosure		Plastic	Steel
Colour		White	Stainless
Colour Cost Option Upgrade	Various	Fascia Plate	Fascia Plate
Height	mm	85	85
Width	mm	85	85
Depth	mm	32	32
Weight	kg	0.085	0.085
Audible Alarm		Yes	Yes
Audible Alarm Sound Level	dB	85 (2300 Hz ±300)	85 (2300 Hz ±300)
Alarm Mute		Powered OFF	Powered OFF
Visual Indicator (Neon)		3-coloured LED	3-coloured LED
Fault Code Generated To Local Remote Controller		L30	L30
Interconnecting Multi-core Cable Length/Fused	m	10/Yes	10/Yes
Interconnecting Cable Type Remote Indication	mm ²	0.75 multi-core	0.75 multi-core
Power Supply	volts	12-24 AC/DC	12-24 AC/DC
Power Consumption Min./Max.	mA	40/100	40/100
Circuit Protection Fuse Supplied With Cable	mA	125	125
Cable Link For Remote ON/OFF (Ving Card)		Yes	Yes
Screw Terminal Connections		5	5
Fail Safe Relay Operation		Yes	Yes
Mounting Height Above Floor Level	mm	150-250	150-250
Fixing Box Part Number (Sold Separately)		TCB-LDSBB1	TCB-LDSBB2
Fixing Method - (Type)		Flush dry lining - (Plastic)	Flush mount - (Metal)
Fixing Box Size H x W x D	mm	86 x 86 x 46	68.3 x 68.3 x 47
12 Volt Transformer Location		Remote	Remote
RETAIL PRICE		£644	£659

Accessories

Accessories - Control Panels, Software, Infra-red and Wired Controllers

Control Panel		RBC-AC1	VRF - RAV	Auto-Changeover Panel	Unit auto-changeover with temperature high limit stat (1 Run/1 Standby)	£1,683
		RBC-AC2		Auto-Changeover Panel	Unit auto-changeover with temperature high limit stat (2 Run/1 Standby)	£1,960
		RBC-AIP1		Remote Indication Alarm	Remote indication of alarm for up to 8 x RBC-RD6/RBC-RP1 panels incl. RBC-DI1	£1,813
		RBC-AIP2		Remote Indication Alarm and Reset	Remote indication of alarm and remote reset for up to 4 x RBC-RD6 panels incl. RBC-DI1	£2,973
		RBC-EM1-PE		Energy-Monitoring Kit	Power meter and transformers to be used with the Windows package and touch screen	£1,253
Control Software		RBC-WP1-PE	VRF - RAV	Windows Package	Interactive intelligence software to be used with the TCB-IFLN642TLE LonWorks gateway	£4,993
		TTS-WP1SC		Windows Package	Toshiba WP1 software configuration	£717
Controller Infra-Red		RBC-AX32U(W)-E	VRF - RAV	4-Way Cassette Corner	Replacement corner pocket with built-in receiver and remote controller	£185
		RBC-AX32UM(W)-E		Compact Cassette	Wireless remote controller (new 7 series Compact Cassettes)	£120
		RBC-AX32UW(W)-E		2-Way Cassette Receiver	Replacement receiver and remote controller	£208
		RBC-AX33CE		Ceiling Receiver	Replacement receiver and remote controller	£203
		RBC-AX33UYP-E		1-Way Cassette	Wireless receiver kit for 1-Way Cassette	£44
		RBC-AX41U(W)-E		Compact Cassette	Wireless infra-red controller and receiver	£202
		RBC-AXU31C-E		Ceiling Receiver	Wireless remote controller kit for Ceiling	£222
		RBC-AXU31-E		External Receiver	Wireless remote controller kit - others (excludes High Static Duct)	£287
		RBC-AXU31U-E		4-Way Cassette Corner	Wireless receiver kit for 4-Way Cassette	£202
		RBC-AXU31UM-E		Compact Cassette	Wireless receiver kit for Compact Cassette	£131
		RBC-AXU31UW-E		2-Way Cassette	Wireless receiver kit for 2-Way Cassette	£239
		RBC-AXU41U-E		Smart Cassette Corner	Wireless receiver kit for Smart Cassette	£197
		RB-RXS30-E	RAS	Single-Split System	Weekly-timer, single combination	£70
		RB-RXS31-E		Multi-Split System	Weekly-timer, IMS combination	£70
		RB-RXS33-E		Multi-Split System	Weekly-timer, IMS combination	£70

ACCESSORIES

Accessories - Control Panels, Software, Infra-red and Wired Controllers

Controller Infra-Red		TCB-AX32E2	VRF - RAV	External Receiver	Independent receiver and remote controller for all models	£263
		TCB-SIR41U-E		Motion Sensor	Smart Cassette occupancy sensor control with 10 m diameter detection	£94
		TCB-SIR41UM-E		Motion Sensor	Compact Cassette occupancy sensor control with 10 m diameter detection	£94
		TCB-SIR41UYP-E		1-Way Cassette	Occupancy Sensor	£70
Controller Wired		HWS-AMS54E	ESTIA	Estia Wired Remote Controller	Full control including service functions with fully-programmable 7-day timer	£140
		HWS-AMSU51-E		Estia Wired Remote Controller	Full control including service functions with fully-programmable 7 day timer	£124
		NRC-01HE	VN	Remote Controller	VN-M150-2000HE air-to-air heat exchangers	£112
		RBC-AMS41E	VRF - RAV	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	£89
		RBC-AMSU51-ES		Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	£140
		RBC-AMT32E		Standard Remote Controller	Full control including service functions	£72
		RBC-AMTU01V-E	VN	Remote Controller	VN-M150-2000HE air-to-air heat exchangers	£92
		RBC-AMTU31-E	VRF - RAV	Standard Remote Controller	Full control including service functions	£79
		RBC-AS41E		Simplified Controller	Ideal for hotel and basic use applications (no service function available)	£95
		RBC-ASC11E		Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£72
		RBC-ASCU11-E		Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	£56
		RBC-MTSC1		Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	£270
		RBC-MTSC2		Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	£321
		RB-RWS21-E	RAS	Remote Controller	Hard-wired remote controller RAS Ducted	£199
		TCB-TC41LE	VRF - RAV	Remote Sensor	Ideal for allowing automatic control but room sensing required for comfort	£79
		TCB-TC41U-E		Remote Sensor	Ideal for allowing automatic control but room sensing required for comfort	£86

ACCESSORIES

Accessories - Controls: Wired Controllers and Indoor Interfaces

Central Controller Wired		BMS-CT1280E		Touch Screen Controller	Enables full control of up to 128 indoor units with energy monitoring and advanced control options (requires configuration support subject to extra cost)	£3,843
		BMS-CT5121E		Touch Screen Controller	Multi-function touch screen controller enables full control of up to 512 indoor units with electric billing	£5,203
		BMS-CT2560U-E		Touch Screen Controller	Multi-function touch screen controller enables full control of up to 256 indoor units with electric billing	£4,209
		BMS-IFBN640TLE		BACnet Control	Interface for LC and VRF	£1,734
		BMS-IFBN640U-E		BACnet Control	Interface for LC and VRF	£1,436
		BMS-IWF0320E		Smart Device Control Interface	Enables full control of up to 32 indoor units by smart device with Toshiba AC app (local smart phone and tablet)	£1,685
		BMS-SM1281ETLE	VRF - RAV	Smart Manager With Data Analyser	Smart Manager enables full control of up to 128 indoor units with energy monitoring and advanced control options	£2,684
		RBC-BP2		BACnet/Modbus/Trend Controller	Controls up to 64 indoor units	£4,259
		RBC-TBPTS		Touch Screen Controller	Multi-function touch screen controller	£2,507
		RBC-TBPTSBC		Toshiba Smart Touch Back Box	Recessed housing for smart touch screen controller	£172
		TCB-SC640U-E		Central Controller ON/OFF	Full control of max. 64 indoor units. Standard features: on/off, mode, temperature setting, fan speed, louvres, permit/prohibit functions with touch-sensitive keys	£948
		TCB-SC643TLE		Central Controller ON/OFF	Full control of max. 64 indoor units. Standard features: on/off, mode, temperature setting, fan speed, louvres, permit/prohibit functions with touch-sensitive keys	£865
		TCB-EXS21TLE		Schedule Remote Controller	Schedule timer for use with central controller or standard controllers	£332
Indoor Interface		BMS-IFKX0AWR-E	Estia	BMS Interface	KNX I/F for Estia	£532
		BMS-IFKX0TLR-E	VRF - RAV	BMS Interface	KNX I/F for LC and VRF	£434
		BMS-IFMB0AWR-E	Estia	BMS Interface	Modbus I/F for Estia	£469
		BMS-IFMB0TLR-E	VRF - RAV	BMS Interface	Modbus I/F for LC and VRF	£361
		BMS-IFMB640U-E		BMS Interface	Modbus I/F for LC and VRF	£328
		HWS-IFAIP01U-E	Estia	BMS Interface	0-10 V analogue interface	£252
		HWS-IWF0010UP-E		Wi-Fi Connection	Wi-Fi interface adapter	£156
		NRB-1HE	VN	Remote On/Off Adapter	Remote on/off adapter air-to-air heat exchanger	£112

ACCESSORIES

Accessories - Controls: Indoor Interfaces

Indoor Interface		RBC-AVS2	VRF - RAV	Remote Sensor	Averaging temperature sensor kit	£182
		RBC-AVS3		Remote Sensor	Averaging temperature sensor kit	£202
		RBC-AVS4		Remote Sensor	Averaging temperature sensor kit	£215
		RBC-CK1	RAV	VRF-DI-SDI Conversion Kit	Kit required to convert VRF Floor/Chassis units to connect with DI-SDI outdoors	£135
		RBC-CK2		VRF-DI-SDI Conversion Kit	Kit required to convert VRF Floor-Mounted Cabinet units to connect with DI-SDI outdoors	£109
		RBC-FDP3-PE	VRF - RAV	BMS Interface	Monitoring and control interface for VRF and DI-SDI	£391
		RBC-FDP3-AHU		BMS Interface	Interface to connect to a 0-10 V with AHU firmware	£553
		RBC-IS-IR-Wi-Fi-1	RAS	Wi-Fi Connection	IntesisHome Wi-Fi universal controller	£264
		RBC-RASNC	RAS - RAV	RAS Network Card (to Central Controller)	Interface to enable RAS MIRAI-to-RAV communication	£271
		RBC-SMF1	VRF - RAV	Fan Interface	Interface to provide an output to enable an external fan from the unit	£60
		RBC-SMIM2		Indicator Module Mode	Interface to indicate the mode of unit operation output for cool, heat and fan only	£89
		RBC-SMIM3		Indicator Module ON/OFF and Stopping Fault	Interface to indicate unit operation and stopping fault	£85
		RBC-SMIM4		Indicator Module ON/OFF, Stopping Fault And Unit Enable	Interface to indicate unit operation and stopping fault and connections to enable the unit	£95
		RBC-TO-RC-Wi-Fi-1		Wi-Fi Connection	IntesisHome Wi-Fi - Toshiba DI and VRF	£295
		RBC-TS1		Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	£309
		RBC-TXIO		Control Interface	Input/output interface for third-party equipment	£377
		RB-N103S-G	RAS	Wi-Fi Connection	Wi-Fi adapter	£129
		RB-N104S-G		Wi-Fi Connection	Wi-Fi adapter and cable	£134
		RB-N105S-G		Wi-Fi Connection	Wi-Fi adapter	£129
		RB-N106S-G		Wi-Fi Connection	Wi-Fi adapter and cable	£134
		RB-I301-E		RAS Console	Leak detection sensor kit for RAS Console units	£173
		TCB-LDS1	VRF - RAV	Refrigerant Leak Detector	Room leak detection concentration sensor with white faceplate (requires remote 12 V transformer)	£455
		TCB-LDS2		Refrigerant Leak Detector	Room leak detection concentration sensor with stainless steel faceplate (requires remote 12 V transformer)	£470
		TCB-LDS1BLK		Refrigerant Leak Detector	Room leak detection concentration sensor with black faceplate (requires remote 12 V transformer)	£410
		TCB-LD12V		Refrigerant Leak Detector	Room leak detection transformer 12 V and cable kit (use with TCB-LDS1, TCB-LDS2 and TCB-LDS1BLK)	£189
		TCB-IFCB5-PE		Window Switch and Remote ON/OFF	Disable indoor unit operation when outside window is open and for door entry system	£28
		TCB-PX100-PE		Enclosure for Window Switch	Use when the window switch cannot fit within the AC unit	£21

ACCESSORIES

Accessories - Controls: Indoor Interfaces, Indoor Interface Leads and Interfaces

Indoor Interface		TCB-IFGSM1E	RAV	CN61 GSM Control Interface	RAV DI-SDI allows on/off control, operation status monitoring and alarm monitoring of AC	£662
		TCB-PCNT20E	VRF - RAV	Network Adapter XY AI Network	Network adapter to connect a DI unit to the old AI network	£205
		TCB-PCNT30TLE2	RAV	Network Adapter U3/U4 TCC-Link	Network adapter to connect a DI unit to the TCC-Link network	£104
		TCB-PX30MUE		Terminal Box (TCB-PCNT30TLE2)	Enclosure for the PCNT30TLE2 when used with all DI Cassette units	£78
Indoor Interface Lead		RBC-CBK15FE	VRF	Flow Selector Lead 15 m	Extension lead kit for the flow selector	£183
		RBC-FSEX15		Flow Selector Lead 15 m	Extension lead kit for the flow selector	£123
		RBC-LDCIMC	VRF - RAV	Refrigerant Leak Detector Lead	Leak detection 15 m lead	£50
		RBC-IT4-PE		CN06 Connector Timer Interface	Interface to accept a 240 V input from a timer	£145
		RBC-SMCN61		ON/OFF and Locking Lead	Lead to switch a unit on/off remotely and to lock this function	£9
		RBC-SMCN61L		ON/OFF Lock Lead	Lead to lock the on/off function	£12
		RBC-SMT1		CN02 Connector Timer Interface Lead	Lead to provide on/off control from the RBC-AMT32E remote or any central controller	£12
		RBC-VNL1	VN	CN705 Unit Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for on/off, local controller lock, increase fan speed and damper position	£60
		TCB-KBCN32VEE	VRF - RAV	Connector for CN32	Ventilation fan control DI and VRF	£183
		TCB-KBCN60OPE		CN60 Operation Status	Operation status for indoor unit DI and VRF	£358
		TCB-KBCN61HAE		Connector for CN61	On/off control DI and VRF	£362
		TCB-KBCN70OAE		Connector for CN70	Option error input DI and VRF	£177
		TCB-KBCN73DEE		Connector for CN73	Demand input control DI and VRF	£179
		TCB-KBCN80EXE		Connector for CN80	External error input DI and VRF	£185
		TCB-KBOS2E	RAV	Optional Connector Kit	RAV-**80#_280# peak-cut control/night operation/compressor status output	£26
		TCB-KBOS4E		Optional Connector Kit	RAV-**80#_160# peak-cut control/night operation/compressor status output	£38
Interface		BMS-IFDD03E	VRF - RAV	Digital Input/Output Relay Interface	Interface for touch screen controller; compliant manager, web-based controller, smart manager, power meter device, 4 x digital outputs and 8 x digital inputs	£1,032
		BMS-IFWH5E		Power Meter Interface	Energy monitoring relay interface for up to 8 pulse power meters, touch screen controller, compliant manager, web-based controller, smart manager	£589
		RBC-DI1-PE		Digital Input/Output Interface	Interface to allow the connection of external equipment to the Windows package	£380
		RBC-IT2-PE		Timer Interface	Interface to accept a 240 V input from a timer for R407C equipment	£135
		RBC-IT3-PE	RAS	Timer Interface	240 V timer interface for Daiseikai units	£154
		TCB-IFCB640TLE	VRF - RAV	Analog Interface	Control and monitoring up to 64 indoor units on TCC-Link	£1,930
		TCB-IFCG1TLE		General Purpose Interface	Enables control of AC by the DI/DO and AI/AO	£1,930
		TCB-IFLN642TLE		LonWorks Gateway	LonWorks interface	£1,475

ACCESSORIES

Accessories - Controls: Interfaces, Outdoor Interfaces

Outdoor Interface		TCB-IFMB641TLE	VRF - RAV	Modbus Gateway	Connect the system to a Modbus building management system	£1,640
		TCB-PCIN3E	ESTIA	Output PCB	Interface to provide an output for fault and run	£112
		TCB-PCMO3E		External Input PCB	Estia Interface to switch the unit ON or OFF	£78
		TCB-PCUC2E	VRF - RAV	Indoor Control Interface	Application control kit	£139
		TCB-IFCB-4E2	VRF - RAV	CN61 Remote ON/OFF	Interface for remote ON/OFF	£307
		TCB-PCDM4E		CN513 Power Peak Control	Header outdoor unit operation limit demand controller	£109
		TCB-PCDM4E	VRF	Power Peak -Cut Control	Power peak-cut control	£109
		TCB-PCIN4E		CN511 Operation Output Display	Operation/error output display, compressor operation control	£120
		TCB-PCMO4E		CN150-508-512 Operation Control	CN150 operation mode control; CN508 night set back control; CN508 snowfall fan control; CN512 external master ON/OFF	£83
		TCB-PCOS1E2	RAV	CN510 Outdoor Control DI	Peak power cut and noise reduction. Output for compressor operation	£200
		TCB-SS1UU-E	VRF	SMMS-u Link Adapter	Link Adapter with 8 GB MicroSD Card	£2,284

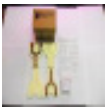
ACCESSORIES

Accessories - Piping Kits: Condensate Pumps, Branch Joints and Headers

Pulse Modulating Valve Kit		RBM-PMV0363E	VRF	PMV	VRF 2-Pipe Valve Kit (models 3-12)	£196
		RBM-PMV0903E		PMV	VRF 2-Pipe Valve Kit (models 15-24)	£225
		RBM-PMV0361U-E		PMV	VRF 2-Pipe Valve Kit (models 3-12)	£215
		RBM-PMV0901U-E		PMV	VRF 2-Pipe Valve Kit (models 15-24)	£246
Condensate		TCB-KP14CPE	VRF - RAV	4-Way Branch Kit	Ceiling-Suspended unit elbow piping kit (1.5-2 hp)	£75
		TCB-KP24CPE		2-Way Branch Kit	Ceiling-Suspended unit elbow piping kit (3-6 hp)	£89
		TCB-DP31CE		Drain Pump	Ceiling-Suspended unit drain pump kit (1.7-6 hp)	£290
		TCB-DP31HEXE	VN	Drain Pump	Air-to-air heat exchanger drain pump kit (for DX coil)	£683
		TCB-DP32DFE	VRF- RAV	Drain Pump	Fresh Air Intake drain pump kit (5-10 hp)	£711
		TCB-DP40DPE		Drain Pump	High-Static Ducted unit drain pump kit (8-10 hp)	£392
Branch Joints		RBC-DTWP101E	RAV	DI 4-Way Branch Kit	Quad system RAV-**224#-**280#	£281
		RBC-TRP100E		DI-SDI 3-Way Branch Kit	Triple system RAV-**160#-**280#	£263
		RBC-TWP101E		DI-SDI 2-Way Branch Kit	Twin system RAV-**224#-**280#	£206
		RBC-TWP30E2		DI-SDI 2-Way Branch Kit	Twin system RAV-**80#-**110#	£86
		RBC-TWP50E2		DI-SDI 2-Way Branch Kit	Twin system RAV-**140#-**160#	£91
		RBM-BT14E	VRF	VRF CDU 2-Pipe Modular Kit	SMMS capacities below 26 hp	£152
		RBM-BT24E		VRF CDU 2-Pipe Modular Kit	SMMS capacities above 26 hp	£187
		RBM-BT34E		VFR CDU 2-Pipe Modular Kit	SMMS capacities above 46 hp	£291
		RBM-BT14FE		VRF CDU 3-Pipe Modular Kit	SHRM capacities below 26 hp	£153
		RBM-BT24FE		VRF CDU 3-Pipe Modular Kit	SHRM capacities above 26 hp	£206
Headers		RBM-HY1043E	VRF	VRF 2-Pipe 4-Way Header	SMMS capacities below 14.2 hp	£177
		RBM-HY2043E		VRF 2-Pipe 4-Way Header	SMMS capacities 14.2-25.2 hp	£194
		RBM-HY1083E		VRF 2-Pipe 8-Way Header	SMMS capacities below 14.2 hp	£302
		RBM-HY2083E		VRF 2-Pipe 8-Way Header	SMMS capacities 14.2-25.2 hp	£331
		RBM-HY1043FE		VRF 3-Pipe 4-Way Header	SHRM capacities below 6.4 hp	£231
		RBM-HY2043FE		VRF 3-Pipe 4-Way Header	SHRM capacities 6.4-14.2 hp	£304
		RBM-HY1083FE		VRF 3-Pipe 8-Way Header	SHRM capacities 14.2-25.2 hp	£370
		RBM-HY2083FE		VRF 3-Pipe 8-Way Header	SHRM capacities above 25.2 hp	£376

ACCESSORIES

Accessories - Piping Kits: Y-Joints

Y-Joints		RBM-BY55E	VRF	VRF 2-Pipe Y-Joint	SMMS capacities below 6.4 hp	£68
		RBM-BY105E		VRF 2-Pipe Y-Joint	SMMS capacities 6.4-14.2 hp	£85
		RBM-BY205E		VRF 2-Pipe Y-Joint	SMMS capacities 14.2-25.2 hp	£138
		RBM-BY305E		VRF 2-Pipe Y-Joint	SMMS capacities above 25.2 hp	£184
		RBM-BY405E		VRF 2-Pipe Y-Joint	SMMS capacities above 61.2 hp	£259
		RBM-BY55FE		VRF 3-Pipe Y-Joint	SHRM capacities below 6.4 hp	£77
		RBM-BY105FE		VRF 3-Pipe Y-Joint	SHRM capacities 6.4-14.2 hp	£106
		RBM-BY205FE		VRF 3-Pipe Y-Joint	SHRM capacities 14.2-25.2 hp	£159
		RBM-BY305FE		VRF 3-Pipe Y-Joint	SHRM capacities above 25.2 hp	£262

Accessories - Miscellaneous: Coil Coatings and Case Sections

Anti-Corrosion Coating		CACC-DF	RAV	Double Fan CDU Coil Anti-Corrosion Coating	RAV-GM160#, RAV-GP110#-160#, Mini SMMS	£423
		CACC-DF1		Double Fan CDU Coil Anti-Corrosion Coating	RAV-GM224#_GM280#	£586
		CACC-SF	RAV - RAS	Single Fan CDU Coil Anti-Corrosion Coating	RAS, RAV-GM30#-140#, RAV-GP40#-80#	£309
		CACC-VRF	VRF	VRF Module CDU Coil Anti-Corrosion Coating	8-14 hp SMMS, 8-10 hp SHRM	£797
		CACC-VRF1		VRF Module CDU Coil Anti-Corrosion Coating	16-24 hp SMMS, 12-14 hp SHRM	£879
		CACC-VRF2		VRF Module CDU Coil Anti-Corrosion Coating	16-20 hp SHRM	£1,204
Split Case/Sections		TTS-VRFSD-ML	VRF	Split Case 2 Main Sections	VRF split case UK mainland	£4,238
		TTS-VRFSD-OS		Split Case 2 Main Sections	VRF split case non-UK mainland	£5,637
		TTS-VRFSD-MLF		Split Case Multiple Sections	VRF split sections UK mainland	£6,743
		TTS-VRFSD-OSF		Split Case Multiple Sections	VRF split sections non-UK mainland	£7,966

ACCESSORIES

Accessories - Miscellaneous: Spigots, Pumps, Filters

Air Discharge, Filtration and Inlet		RBC-VCK1	VRF - RAV	Vertical Conversion Kit	Standard Ducted indoor unit conversion to vertical mount	£521
		TCB-BC1602UE		Air Discharge Direction Kit	4-Way Cassette air outlet shield for 2- or 3-way blow	£75
		TCB-BC1603UE	RAV	Air Discharge Direction Kit	Smart Cassette air discharge direction kit	£75
		TCB-SP1602UE	VRF - RAV	Cassette Spacer	4-Way Cassette height spacer for RBC-U31PGP(W)-E	£198
		TCB-SP1603UE	RAV	Cassette Spacer	Smart Cassette height spacer for RBC-U41PG(W)-E	£198
		TCB-FF101URE2	VRF - RAV	Inlet Spigot	Compact Cassette auxiliary fresh air flange	£52
		TCB-FF151US-E		Inlet Spigot	2-Way Cassette auxiliary fresh air flange	£63
		TCB-GB1602UE		Inlet Spigot	4-Way Cassette auxiliary fresh air flange	£75
		TCB-SF160C6BPE		Discharge Spigots 4 x 200 mm	Ducted units (4-6 hp)	£191
		TCB-SF56C6BPE		Discharge Spigots 2 x 200 mm	Ducted units (0.8-2 hp)	£128
		TCB-SF80C6BPE		Discharge Spigots 3 x 200 mm	Ducted units (2.5-3.2 hp)	£150
		818F0036	RAS - RAV - VRF	IAQ Filter (Pair)	RAS, RAV and VRF High-Wall units (Quantity required - indoor width ≤ 800 mm x 1; indoor > 800 mm x 2)	£13
		818F0050		Ultra Pure Filter (Pair)	RAS, RAV and VRF High-Wall units (Quantity required - indoor width ≤ 800 mm x 1; indoor > 800 mm x 2)	£7
		TCB-EAPC1UYHP-E	VRF	1-Way Cassette	Air Purifier Kit	£172
		TCB-FC1403UW-E		Filter Chamber	2-Way Cassette filter chamber (AP/UP0362-0562)	£734
		TCB-FC283UW-E		Filter Chamber	2-Way Cassette filter chamber (AP/UP0072-0152)	£437
		TCB-FC803UW-E		Filter Chamber	2-Way Cassette filter chamber (AP/UP0182-0302)	£627
		TCB-FCY100DE		Filter Chamber	2-Way Cassette filter chamber (AP/UP0721-0961)	£794
		TCB-FCY51DFE		Filter Chamber	Fresh Air Intake filter chamber (AP/UP0481)	£471
		TCB-GFC1602UE2	VRF - RAV	Filter Chamber	4-Way Cassette fresh air and filter chamber	£169
		TCB-GFC1603UE	RAV	Filter Chamber	Smart Cassette fresh air and filter chamber	£198
		TCB-LF1403UW-E	VRF	Long-Life Filter	2-Way Cassette super-long-life pre-filter (AP/UP0362-0562)	£545
		TCB-LF283UW-E		Long-Life Filter	2-Way Cassette super-long-life pre-filter (AP/UP0072-0152)	£311
		TCB-LF803UW-E		Long-Life Filter	2-Way Cassette super-long-life pre-filter (AP/UP0182-0302)	£509

ACCESSORIES

Accessories - Miscellaneous: Filters, Heater Kits, Painted Finishes

Air Discharge, Filtration and Inlet		TCB-LK1401D-E	VRF - RAV	Long-Life Filter	Ducted unit long-life filter kit (4-6 hp)	£83
		TCB-LK2801DP-E		Long-Life Filter	Ducted unit long-life filter kit (8-10 hp)	£128
		TCB-LK801D-E		Long-Life Filter	Ducted unit long-life filter kit (2-3 hp)	£64
		TCB-PF4D-1E	VRF	Long-Life Filter	High-Static Ducted long-life pre-filter (Quantity required: AP/UP0481 x 2)	£144
		TCB-PLFC2UPE-80		Filter Kit	PM2.5 after pre-filter 4-Way Cassette (6 x filters)	£1,637
		TCB-PLFC1UPE-120		Filter Kit	PM2.5 before pre-filter 4-Way Cassette (4 x filters)	£1,287
		TCB-UFM4D-1E	VRF - RAV	High-Efficiency Filter	Fresh Air Intake high-efficiency filter 65% (Quantity required: AP/UP0481 x 2)	£465
		TCB-UFH8D-1E		High-Efficiency Filter	Fresh Air Intake high-efficiency filter 90% (Quantity required: AP/UP0481 x 2)	£468
		TCB-PF3DE		Long-Life Filter	Fresh Air Intake long-life pre-filter (Qty required: RAV-RM224-RAV-RM280 x 2) (Qty required: AP/UP0721-AP/UP0961 x 2)	£201
		TCB-UFM3DE		High-Efficiency Filter	Fresh Air Intake high-efficiency filter 65% (Quantity required: AP/UP0721-AP/UP0961 x 2)	£629
		TCB-UFH7DE	VRF	High-Efficiency Filter	Fresh Air Intake high-efficiency filter 90% (Quantity required: AP/UP0721-AP/UP0961 x 2)	£669
Air-to-Air Heat Exchanger		RBC-VNMC-PE	VN	Heater Controller Kit	Control for VN-M150-800HE heater kits	£444
		RBC-VNMC-HE1		Heater Controller Kit	Control for VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1 (VN-M1500HE1 and VN-M2000HE1 heater procured locally)	£339
		RBC-VNMH1-PE		100 mm Heater Kit 1 kW	VN-M150HE heat exchanger	£393
		RBC-VNMH2-PE		150 mm Heater Kit 1 kW	VN-M250HE and VN-M350HE heat exchanger	£402
		RBC-VNMH3-PE		200 mm Heater Kit 2 x 1 kW	VN-M500HE and VN-M650HE heat exchanger	£455
		RBC-VNMH4-PE		250 mm Heater Kit 2 x 1 kW	VN-M800HE and VN-M1000HE1 heat exchanger	£465
		RBC-VNWP01		Enclosure	VN-M weatherproof housing for VN-M150HE-VN-M350HE	£4,033
		RBC-VNWP02		Enclosure	VN-M weatherproof housing for VN-M500HE/VN-M650HE	£4,436
		RBC-VNWP03		Enclosure	VN-M weatherproof housing for VN-M800HE/VN-M1000HE1	£4,855
		RBC-VNWP04		Enclosure	VN-M weatherproof housing for VN-M1500HE1/VN-2000HE1	£6,043
Painted Finish		PAINT-4WAYCASSETTE	VRF - RAV	4-Way Cassette	Painted Cassette unit chassis	£424
		PAINT-U31FP		4-Way Cassette	Painted 4-Way Cassette fascia panel	£347
		PAINT-U21FP		Compact Cassette	Painted Compact Cassette fascia panel	£314
Fabric Finish		RB-I4101-E	RAS Haori	Dark Grey	Fabric Cover Kit (supplied loose)	£62
		RB-I4102-E		Light Grey	Fabric Cover Kit (supplied loose)	£62
		RB-I4103-E		Bluish Grey	Fabric Cover Kit (supplied loose)	£78
		RB-I4104-E		Grey Beige	Fabric Cover Kit (supplied loose)	£78
		RB-I4105-E		Dark Brown	Fabric Cover Kit (supplied loose)	£78
		RB-I4106-E		Emerald Blue	Fabric Cover Kit (supplied loose)	£78

TOSHIBA



Office Locations

Leatherhead

Toshiba Air Conditioning
United Technologies House
Guildford Road
Leatherhead
Surrey
KT22 9UT

Tel: 01372 220 240
marketing.uk@toshiba-ac.com

Manchester

Toshiba Air Conditioning
Unit 15 S:Park Business Park
Hamilton Road
Stockport
Greater Manchester
SK1 2AE

Tel: 0870 843 0333
orders@toshiba-ac.com

Plymouth

Toshiba Carrier UK Limited
Porsham Close
Belliver Industrial Estate
Plymouth
Devon
PL6 7DB

Tel: 0870 843 0333
sales.support@toshiba-ac.com

Departmental Contact Details

Sales

0845 850 8924
sales.support@toshiba-ac.com

Spares

0870 843 0333 opt 2
spares@toshiba-ac.com

Training

0870 843 0333 opt 7
toshiba.training@toshiba-ac.com

Projects

01372 220 266
projects.uk@toshiba-ac.com

Warranty

0870 843 0333 opt 6
warranty@toshiba-ac.com

Technical

0870 843 0333 opt 7
technical.enquiries@toshiba-ac.com

www.toshiba-aircon.co.uk



Better Air Solutions

Toshiba Air Conditioning offering total HVAC Solutions