TOSHIBA

EXPERIENCE THE FUTURE



Better Air Solutions

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.

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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.

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 CERTIFIED PERFORMANCE
www.eurovent-certification.com

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.

TOSHIBA AIR CONDITIONING
7 YEARS ENHANCED WARRANTY PARTNER

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*

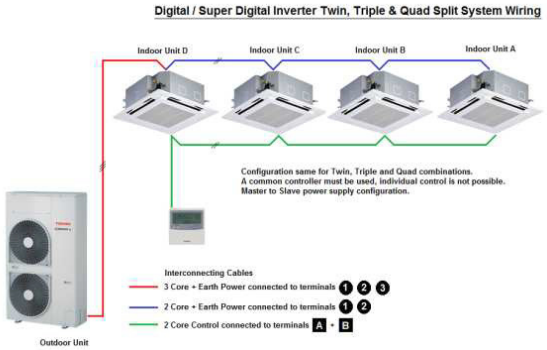


All of our training courses have been devised to ensure that we offer professionals the product and development training they require and deserve to deliver the highest possible standards. It also confirms our support to the industry in ensuring that high levels of professionalism are encouraged and 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 843 333
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

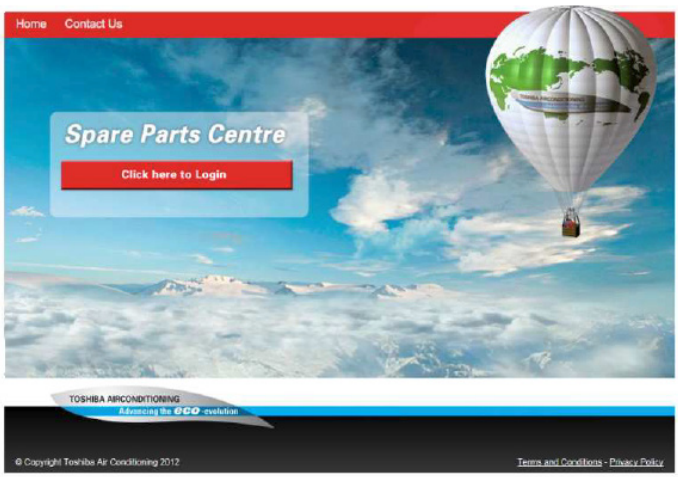
As a direct result of feedback we received from our customers both in the UK and across Europe we developed a single point of contact for our “Spare Parts Centre” covering all products produced and manufactured in Japan, Thailand and UK in one website with a straightforward search facility.

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).

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management | OHSAS 18001 Occupational Health & Safety Management

RAS Overviews



RAS

RAS Split System Overview

Nominal Cooling Capacity			kW	1.5	2	2.5	3.5	4.5	5.3	6.0	7.1
Nominal Heating Capacity			kW	2	2.5	3.2	4.2	5.5	5.6	7.0	8.1
			hp	0.6	0.8	1	1.5	1.7	2	2.5	3
Wall-Mounted		**RAS Seiya R32** Full Spec Page 22	1 phase	€696 B05J2KVG-E/ 05J2AVG-E	€733 B07J2KVG-E/ 07J2AVG-E	€749 B10J2KVG-E/ 10J2AVG-E	€830 B13J2KVG-E/ 13J2AVG-E	€1,147 B16J2KVG-E/ 16J2AVG-E	€1,377 18J2KVG-E/ 18J2AVG-E		€1,650 24J2KVG-E/ 24J2AVG-E
		**RAS Shorai R32** Full Spec Page 24	1 phase			€1,075 B10PKVSG-E/ 10PAVSG-E	€1,263 B13PKVSG-E/ 13PAVSG-E	€1,524 B16PKVSG-E/ 16PAVSG-E	€1,627 18PKVSG-E/ 18PAVSG-E	€1,807 B22PKVSG-E/ 22PAVSG-E	€2,078 B24PKVSG-E/ 24PAVSG-E
		RAS Shorai Edge R32 Full Spec Page 25	1 phase			€1,128 B10J2KVSG-E/ 10J2AVSG-E	€1,326 B13J2KVSG-E/ 13J2AVSG-E	€1,570 B16J2KVSG-E/ 16J2AVSG-E	€1,675 18J2KVSG-E/ 18J2AVSG-E	€1,824 B22J2KVSG-E/ 22J2AVSG-E	€2,099 B24J2KVSG-E/ 24J2AVSG-E
		**RAS Daiseikai 9 R32** Full Spec Page 26	1 phase			€1,870 10PKVPG-E/ 10PAVPG-E	€1,967 13PKVPG-E/ 13PAVPG-E	€2,377 16PKVPG-E/ 16PAVPG-E			
Floor Type		**RAS Bi-Flow R32** Full Spec Page 27	1 phase			€1,473 B10J2FVG-E/ 10J2AVSG-E	€1,717 B13J2FVG-E/ 13J2AVSG-E		€2,041 B18J2FVG-E/ 18J2AVSG-E		

TOSHIBA

RAS Overviews



RAS

RAS Multi-Split Inverter Overview

Multi-Split Inverter Heat Pump				Indoor Units					
									
kW		R32 Outdoor Unit Price	kW	R32 Seiya High-Wall	R32 Shorai High-Wall	R32 Shorai Edge High-Wall	R32 Bi-Flow	R32 600 x 600 Cassette	R32 Ducted
4.0	 Full Spec Page 30	€1,079 RAS-2M10U2AVG-E	1.5	€207 RAS-B05J2KVG-E					
			2.0	€219 RAS-B07J2KVG-E					€846 RAS-M07U2DVG-E
			2.5	€223 RAS-B10J2KVG-E	€365 RAS-B10PKVSG-E	€390 RAS-B10J2KVSG-E	€735 RAS-B10J2FVG-E	€1,098 RAS-M10U2MUVG-E	€858 RAS-M10U2DVG-E
4.4	 Full Spec Page 30	€1,101 RAS-2M14U2AVG-E	1.5	€207 RAS-B05J2KVG-E					
			2.0	€219 RAS-B07J2KVG-E					€846 RAS-M07U2DVG-E
			2.5	€223 RAS-B10J2KVG-E	€365 RAS-B10PKVSG-E	€390 RAS-B10J2KVSG-E	€735 RAS-B10J2FVG-E	€1,098 RAS-M10U2MUVG-E	€858 RAS-M10U2DVG-E
			3.5	€229 RAS-B13J2KVG-E	€384 RAS-B13PKVSG-E	€411 RAS-B13J2KVSG-E	€802 RAS-B13J2FVG-E	€1,181 RAS-M13U2MUVG-E	€869 RAS-M13U2DVG-E
5.6	 Full Spec Page 30	€1,210 RAS-2M18U2AVG-E	1.5	€207 RAS-B05J2KVG-E					
			2.0	€219 RAS-B07J2KVG-E					€846 RAS-M07U2DVG-E
			2.5	€223 RAS-B10J2KVG-E	€365 RAS-B10PKVSG-E	€390 RAS-B10J2KVSG-E	€735 RAS-B10J2FVG-E	€1,098 RAS-M10U2MUVG-E	€858 RAS-M10U2DVG-E
			3.5	€229 RAS-B13J2KVG-E	€384 RAS-B13PKVSG-E	€411 RAS-B13J2KVSG-E	€802 RAS-B13J2FVG-E	€1,181 RAS-M13U2MUVG-E	€869 RAS-M13U2DVG-E
			4.5	€299 RAS-B16J2KVG-E	€427 RAS-B16PKVSG-E	€449 RAS-B16J2KVSG-E		€1,243 RAS-M16U2MUVG-E	€927 RAS-M16U2DVG-E
6.8	 Full Spec Page 30	€1,715 RAS-3M18U2AVG-E	1.5	€207 RAS-B05J2KVG-E					
			2.0	€219 RAS-B07J2KVG-E					€846 RAS-M07U2DVG-E
			2.5	€223 RAS-B10J2KVG-E	€365 RAS-B10PKVSG-E	€390 RAS-B10J2KVSG-E	€735 RAS-B10J2FVG-E	€1,098 RAS-M10U2MUVG-E	€858 RAS-M10U2DVG-E
			3.5	€229 RAS-B13J2KVG-E	€384 RAS-B13PKVSG-E	€411 RAS-B13J2KVSG-E	€802 RAS-B13J2FVG-E	€1,181 RAS-M13U2MUVG-E	€869 RAS-M13U2DVG-E
			4.5	€299 RAS-B16J2KVG-E	€427 RAS-B16PKVSG-E	€449 RAS-B16J2KVSG-E		€1,243 RAS-M16U2MUVG-E	€927 RAS-M16U2DVG-E
9.0	 Full Spec Page 31	€2,023 RAS-3M26U2AVG-E	1.5	€207 RAS-B05J2KVG-E					
			2.0	€219 RAS-B07J2KVG-E					€846 RAS-M07U2DVG-E
			2.5	€223 RAS-B10J2KVG-E	€365 RAS-B10PKVSG-E	€390 RAS-B10J2KVSG-E	€735 RAS-B10J2FVG-E	€1,098 RAS-M10U2MUVG-E	€858 RAS-M10U2DVG-E
			3.5	€229 RAS-B13J2KVG-E	€384 RAS-B13PKVSG-E	€411 RAS-B13J2KVSG-E	€802 RAS-B13J2FVG-E	€1,181 RAS-M13U2MUVG-E	€869 RAS-M13U2DVG-E
			4.5	€299 RAS-B16J2KVG-E	€427 RAS-B16PKVSG-E	€449 RAS-B16J2KVSG-E		€1,243 RAS-M16U2MUVG-E	€927 RAS-M16U2DVG-E
			5.3				€889 RAS-B18J2FVG-E		
			6.0		€501 RAS-B22PKVSG-E	€541 RAS-B22J2KVSG-E			€1,083 RAS-M22U2DVG-E
			7.1		€576 RAS-B24PKVSG-E	€597 RAS-B24J2KVSG-E			€1,120 RAS-M24U2DVG-E
9.0	 Full Spec Page 31	€2,469 RAS-4M27U2AVG-E	1.5	€207 RAS-B05J2KVG-E					
			2.0	€219 RAS-B07J2KVG-E					€846 RAS-M07U2DVG-E
			2.5	€223 RAS-B10J2KVG-E	€365 RAS-B10PKVSG-E	€390 RAS-B10J2KVSG-E	€735 RAS-B10J2FVG-E	€1,098 RAS-M10U2MUVG-E	€858 RAS-M10U2DVG-E
			3.5	€229 RAS-B13J2KVG-E	€384 RAS-B13PKVSG-E	€411 RAS-B13J2KVSG-E	€802 RAS-B13J2FVG-E	€1,181 RAS-M13U2MUVG-E	€869 RAS-M13U2DVG-E
			4.5	€299 RAS-B16J2KVG-E	€427 RAS-B16PKVSG-E	€449 RAS-B16J2KVSG-E		€1,243 RAS-M16U2MUVG-E	€927 RAS-M16U2DVG-E
			5.3				€889 RAS-B18J2FVG-E		
			6.0		€501 RAS-B22PKVSG-E	€541 RAS-B22J2KVSG-E			€1,083 RAS-M22U2DVG-E
			7.1		€576 RAS-B24PKVSG-E	€597 RAS-B24J2KVSG-E			€1,120 RAS-M24U2DVG-E
12.0	 Full Spec Page 31	€2,812 RAS-5M34U2AVG-E	1.5	€207 RAS-B05J2KVG-E					
			2.0	€219 RAS-B07J2KVG-E					€846 RAS-M07U2DVG-E
			2.5	€223 RAS-B10J2KVG-E	€365 RAS-B10PKVSG-E	€390 RAS-B10J2KVSG-E	€735 RAS-B10J2FVG-E	€1,098 RAS-M10U2MUVG-E	€858 RAS-M10U2DVG-E
			3.5	€229 RAS-B13J2KVG-E	€384 RAS-B13PKVSG-E	€411 RAS-B13J2KVSG-E	€802 RAS-B13J2FVG-E	€1,181 RAS-M13U2MUVG-E	€869 RAS-M13U2DVG-E
			4.5	€299 RAS-B16J2KVG-E	€427 RAS-B16PKVSG-E	€449 RAS-B16J2KVSG-E		€1,243 RAS-M16U2MUVG-E	€927 RAS-M16U2DVG-E
			5.3				€889 RAS-B18J2FVG-E		
			6.0		€501 RAS-B22PKVSG-E	€541 RAS-B22J2KVSG-E			€1,083 RAS-M22U2DVG-E
			7.1		€576 RAS-B24PKVSG-E	€597 RAS-B24J2KVSG-E			€1,120 RAS-M24U2DVG-E

RAV Overviews

DIGITAL INVERTER

SUPER DIGITAL INVERTER



Split System Overview

Nominal Cooling Capacity			kW	2.5	3.5	5.3	7.0
Nominal Heating Capacity			kW	3.2	4.2	5.6	8.0
			hp	1.0	1.5	2.0	3.0
Wall-Mounted		**RAV Digital Inverter** Full Spec Page 37	1 phase	€1,117 RM301KRTP-E/GM301ATP-E	€1,292 RM401KRTP-E/GM401ATP-E	€1,558 RM561KRTP-E/GM561ATP-E	€1,927 RM801KRTP-E/GM801ATP-E
			3 Phase				
		RAV Super Digital Inverter Full Spec Page 80	1 phase			€2,003 RM561KRTP-E/GP561ATP-E	€2,706 RM801KRTP-E/GP801AT-E
Smart Cassette		**RAV Super Digital Inverter** Full Spec Page 81	1 phase			€2,741 GM561UT-E/GP561ATP-E	€3,621 GM801UT-E/GP801AT-E
Compact Cassettes		**RAV Digital Inverter** Full Spec Page 39	1 phase	€1,821 RM301MUT-E/GM301ATP-E	€1,969 RM401MUT-E/GM401ATP-E	€2,152 RM561MUT-E/GM561ATP-E	
		RAV Super Digital Inverter Full Spec Page 82	1 phase			€2,597 RM561MUT-E/GP561ATP-E	
4-Way Cassettes		**RAV Digital Inverter** Full Spec Page 40	1 phase			€2,095 RM561UTP-E/GM561ATP-E	€2,497 RM801UTP-E/GM801ATP-E
			3 phase				
		RAV Super Digital Inverter Full Spec Page 83	1 phase			€2,540 RM561UTP-E/GP561ATP-E	€3,276 RM801UTP-E/GP801AT-E
			3 phase				
Slim Ducted		**RAV Digital Inverter** Full Spec Page 46	1 phase	€1,486 RM301SDT-E/GM301ATP-E	€1,643 RM401SDT-E/GM401ATP-E	€1,823 RM561SDT-E/GM561ATP-E	
		RAV Super Digital Inverter Full Spec Page 89	1 phase			€2,268 RM561SDT-E/GP561ATP-E	
Standard Ducted		**RAV Digital Inverter** Full Spec Page 44	1 phase			€1,847 RM561BTP-E/GM561ATP-E	€2,392 RM801BTP-E/GM801ATP-E
			3 phase				
		RAV Super Digital Inverter Full Spec Page 87	1 phase			€2,292 RM561BTP-E/GP561ATP-E	€3,171 RM801BTP-E/GP801AT-E
			3 phase				
High-Static Ducted		**RAV Digital Inverter** Full Spec Page 47	3 phase				
Ceiling-Suspended		**RAV Digital Inverter** Full Spec Page 42	1 phase		€1,700 RM401CTP-E/GM401ATP-E	€1,936 RM561CTP-E/GM561ATP-E	€2,418 RM801CTP-E/GM801ATP-E
			3 phase				
		RAV Super Digital Inverter Full Spec Page 85	1 phase			€2,381 RM561CTP-E/GP561ATP-E	€3,197 RM801CTP-E/GP801AT-E
			3 phase				
Floor-Mounted + RBC-CK2		**RAV Digital Inverter** Full Spec Page 48	1 phase			€2,808 RM561FT-ES/GM561ATP-E	€3,259 RM801FT-ES/GM801ATP-E
			3 phase				
		RAV Super Digital Inverter Full Spec Page 90	1 phase			€3,253 RM561FT-ES/GP561ATP-E	€4,0381 RM801FT-ES/GP801AT-E
			3 phase				

TOSHIBA

DIGITAL INVERTER

SUPER DIGITAL INVERTER



Split System Overview (continued)

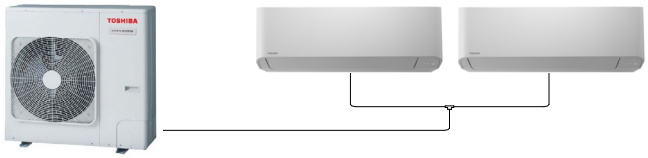
8.0	10.0	12.5	14.0	20.0	23.0
9.0	11.2	14.0	16.0	22.4	28.0
3.5	4.0	5.0	6.0	8.0	10.0
€2,121 GM901KRTP-E/GM901ATP-E	€2,470 GM1101KRTP-E/GM1101ATP-E				
	€2,844 GM1101KRTP-E/GM1101AT8P-E				
	€4,176 GM1101UT-E/GP1101AT-E	€4,470 GM1401UT-E/GP1401AT-E			
€2,681 GM901UTP-E/GM901ATP-E	€3,022 RM1101UTP-E/GM1101ATP-E	€3,144 RM1401UTP-E/GM1401ATP-E	€3,882 RM1601UTP-E/GM1601ATP-E		
	€3,396 RM1101UTP-E/GM1101AT8P-E	€3,539 RM1401UTP-E/GM1401AT8P-E	€4,164 RM1601UTP-E/GM1601AT8P-E		
	€3,897 RM1101UTP-E/GP1101AT-E	€4,186 RM1401UTP-E/GP1401AT-E			
	€4,059 RM1101UTP-E/GP1101AT8-E	€4,210 RM1401UTP-E/GP1401AT8-E	€4,482 RM1601UTP-E/GP1601AT8-E		
€2,598 GM901BTP-E/GM901ATP-E	€2,959 RM1101BTP-E/GM1101ATP-E	€3,184 RM1401BTP-E/GM1401ATP-E	€3,951 RM1601BTP-E/GM1601ATP-E		
	€3,333 RM1101BTP-E/GM1101AT8P-E	€3,579 RM1401BTP-E/GM1401AT8P-E	€4,233 RM1601BTP-E/GM1601AT8P-E		
	€3,834 RM1101BTP-E/GP1101AT-E	€4,226 RM1401BTP-E/GP1401AT-E			
	€3,996 RM1101BTP-E/GP1101AT8-E	€4,250 RM1401BTP-E/GP1401AT8-E	€4,551 RM1601BTP-E/GP1601AT8-E		
				€7,551 RM2241DTP-E/GM2241AT8-E	€7,751 RM2801DTP-E/GM2801AT8-E
€2,599 GM901CTP-E/GM901ATP-E	€2,936 RM1101CTP-E/GM1101ATP-E	€3,314 RM1401CTP-E/GM1401ATP-E	€3,994 RM1601CTP-E/GM1601ATP-E		
	€3,310 RM1101CTP-E/GM1101AT8P-E	€3,709 RM1401CTP-E/GM1401AT8P-E	€4,276 RM1601CTP-E/GM1601AT8P-E		
	€3,811 RM1101CTP-E/GP1101AT-E	€4,356 RM1401CTP-E/GP1401AT-E			
	€3,973 RM1101CTP-E/GP1101AT8-E	€4,380 RM1401CTP-E/GP1401AT8-E	€4,594 RM1601CTP-E/GP1601AT8-E		
	€3,831 RM1101FT-ES/GM1101ATP-E	€4,022 RM1401FT-ES/GM1401ATP-E	€4,777 RM1601FT-ES/GM1601ATP-E		
	€4,205 RM1101FT-ES/GM1101AT8P-E	€4,417 RM1401FT-ES/GM1401AT8P-E	€5,059 RM1601FT-ES/GM1601AT8P-E		
	€4,706 RM1101FT-ES/GP1101AT-E	€5,064 RM1401FT-ES/GP1401AT-E			
	€4,868 RM1101FT-ES/GP1101AT8-E	€5,088 RM1401FT-ES/GP1401AT8-E	€5,377 RM1601FT-ES/GP1601AT8-E		

DIGITAL INVERTER

SUPER DIGITAL INVERTER



Twin-Split System Overview



Nominal Cooling Capacity		kW	5.3	7.0	10.0	12.5	14.0	20.0	23.0
Nominal Heating Capacity		kW	5.6	8.0	11.2	14.0	16.0	22.4	28.0
		hp	2	3	4	5	6	8	10
Outdoor Units	Digital Inverter Full Spec Page 49-59	1 phase	RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1601ATP-E		
	Digital Inverter Full Spec Page 49-59	3 phase			RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	RAV-GM1601AT8P-E	RAV-GM2241AT8-E	RAV-GM2801AT8-E
	Super Digital Inverter Full Spec Page 92-101	1 phase	RAV-GP561ATP-E	RAV-GP801AT-E	RAV-GP1101AT-E	RAV-GP1401AT-E			
	Super Digital Inverter Full Spec Page 92-101	3 phase			RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E		
Twin-Split Indoor/Outdoor Combinations	High-Wall	DI 1 phase	€1,890	€2,284	€2,912	€3,090	€3,745		
		DI 3 phase			€3,286	€3,485	€4,027		
		SDI 1 phase	€2,335	€3,063	€3,787	€4,132			
		SDI 3 phase			€3,949	€4,156	€4,345		
			2 x RAV-RM301KRTP-E	2 x RAV-RM401KRTP-E	2 x RAV-RM561KRTP-E	2 x RAV-RM801KRTP-E	2 x RAV-RM801KRTP-E		
	Smart Cassette	DI 1 phase							
		DI 3 phase							
		SDI 1 phase			€5,067	€5,764			
		SDI 3 phase							
					2 x RAV-GM561UT-E	2 x RAV-GM801UT-E			
	Compact Cassette	DI 1 phase	€3,158	€3,500	€3,960				
		DI 3 phase			€4,334				
		SDI 1 phase	€3,603	€4,279	€4,835				
		SDI 3 phase			€4,997				
			2 x RAV-RM301MUT-E	2 x RAV-RM401MUT-E	2 x RAV-RM561MUT-E				
	4-Way Cassette	DI 1 phase			€3,848	€4,092	€4,747		
		DI 3 phase			€4,222	€4,487	€5,029	€6,674	€6,735
		SDI 1 phase			€4,723	€5,134			
		SDI 3 phase			€4,885	€5,158	€5,347		
					2 x RAV-RM561UTP-E	2 x RAV-RM801UTP-E	2 x RAV-RM801UTP-E	2 x RAV-RM1101UTP-E	2 x RAV-RM1401UTP-E
	Slim Ducted	DI 1 phase	€2,490	€2,848	€3,304				
		DI 3 phase			€3,678				
		SDI 1 phase	€2,935	€3,627	€4,179				
		SDI 3 phase			€4,341				
			2 x RAV-RM301SDT-E	2 x RAV-RM401SDT-E	2 x RAV-RM561SDT-E				
	Ducted	DI 1 phase			€3,352	€3,882	€4,537		
		DI 3 phase			€3,726	€4,277		€6,550	€6,815
		SDI 1 phase			€4,227	€4,924			
		SDI 3 phase			€4,389	€4,948	€5,137		
					2 x RAV-RM561BTP-E	2 x RAV-RM801BTP-E	2 x RAV-RM801BTP-E	2 x RAV-RM1101BTP-E	2 x RAV-RM1401BTP-E
	Ceiling Suspended	DI 1 phase		€2,962	€3,530	€3,934	€4,589		
		DI 3 phase			€3,904	€4,329		€6,504	€7,075
		SDI 1 phase		€3,741	€4,405	€4,976			
		SDI 3 phase			€4,567	€5,000	€5,189		
				2 x RAV-RM401CTP-E	2 x RAV-RM561CTP-E	2 x RAV-RM801CTP-E	2 x RAV-RM801CTP-E	2 x RAV-RM1101CTP-E	2 x RAV-RM1401CTP-E
	Floor-Mounted	DI 1 phase			€5,343	€5,685			
		DI 3 phase			€5,717	€6,080		€8,363	€8,560
		SDI 1 phase			€6,218	€6,727			
		SDI 3 phase			€6,380	€6,751	€6,940		
					2 x RAV-RM561FT-ES	2 x RAV-RM801FT-ES	2 x RAV-RM801FT-ES	2 x RAV-RM1101FT-ES	2 x RAV-RM1401FT-ES

The indoor unit prices shown are the total retail price for the 2, 3 or 4 indoor units required for that particular combination. The total retail price includes 1 x RBC-AMT32E remote controller and the branch pipe kit (triple systems only). Accessory price breakdown available on page 209 to page 217. If the outdoor units are used as part of a twin-split, then restrictions on pipe lengths apply. Please consult the technical manual for full technical specifications.

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Triple-Split System Overview



Nominal Cooling Capacity		kW	10.0	12.5	14.0	20.0	23.0
Nominal Heating Capacity		kW	11.2	14.0	16.0	22.4	28.0
		hp	4	5	6	8	10
Outdoor Units	Digital Inverter Full Spec Page 60-67	1 phase	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1601ATP-E		
	Digital Inverter Full Spec Page 60-67	3 phase	RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	RAV-GM1601AT8P-E	RAV-GM2241AT8-E	RAV-GM2801AT8-E
	Super Digital Inverter Full Spec Page 102-108	1 phase	RAV-GP1101AT-E	RAV-GP1401AT-E			
	Super Digital Inverter Full Spec Page 102-108	3 phase	RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E		
Triple-Split Indoor/Outdoor Combinations	High-Wall	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	€3,293 €3,667 €4,168 €4,330 3 x RAV-RM301KRTP-E	€3,488 €3,883 €4,530 €4,554 3 x RAV-RM401KRTP-E	€4,443 €4,725 €5,043 3 x RAV-RM561KRTP-E	€6,301 3 x RAV-RM801KRTP-E	€6,308 3 x RAV-RM801KRTP-E
	Compact Cassette	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	€5,195 €5,569 €6,070 €6,232 3 x RAV-RM301MUT-E	€5,312 €5,707 €6,354 €6,378 3 x RAV-RM401MUT-E	€6,015 €6,297 €6,615 3 x RAV-RM561MUT-E		
	4-Way Cassette	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase			€5,847 €6,129 €6,447 3 x RAV-RM561UTP-E	€7,804 3 x RAV-RM801UTP-E	€7,811 3 x RAV-RM801UTP-E
	Slim Ducted	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	€4,193 €4,567 €5,068 €5,230 3 x RAV-RM301SDT-E	€4,334 €4,729 €5,376 €5,400 3 x RAV-RM401SDT-E	€5,031 €5,313 €5,631 3 x RAV-RM561SDT-E		
	Ducted	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase			€5,103 €5,385 €5,703 3 x RAV-RM561BTP-E	€7,489 3 x RAV-RM801BTP-E	€7,496 3 x RAV-RM801BTP-E
	Ceiling Suspended	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase		€4,505 €4,900 €5,547 €5,571 3 x RAV-RM401CTP-E	€5,370 €5,652 €5,970 3 x RAV-RM561CTP-E	€7,567 3 x RAV-RM801CTP-E	€7,574 3 x RAV-RM801CTP-E
	Floor-Mounted + RBC-CK2	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase			€8,124 €8,406 €8,724 3 x RAV-RM561FT-ES	€10,228 3 x RAV-RM801FT-ES	€10,235 3 x RAV-RM801FT-ES

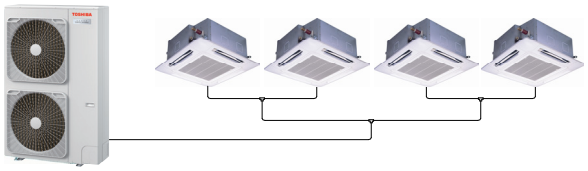
The indoor unit prices shown are the total retail price for the 2, 3 or 4 indoor units required for that particular combination. The total retail price includes 1 x RBC-AMT32E remote controller and the branch pipe kit (triple systems only). Accessory price breakdown available on page 209 to page 217. If the outdoor units are used as part of a twin-split, then restrictions on pipe lengths apply. Please consult the technical manual for full technical specifications.

DIGITAL INVERTER

SUPER DIGITAL INVERTER



Quad-Split System Overview



Nominal Cooling Capacity		kW	12.5	14	20	23
Nominal Heating Capacity		kW	14	16	22.4	28
		hp	5	6	8	10
Outdoor Units	Digital Inverter Full Spec Page 68-74	1 phase	RAV-GM1401ATP-E	RAV-GM1601ATP-E		
	Digital Inverter Full Spec Page 68-74	3 phase	RAV-GM1401AT8P-E	RAV-GM1601AT8P-E	RAV-GM2241AT8-E	RAV-GM2801AT8-E
	Super Digital Inverter Full Spec Page 109-112	1 phase	RAV-GP1401AT-E			
	Super Digital Inverter Full Spec Page 109-112	3 phase	RAV-GP1401AT8-E	RAV-GP1601AT8-E		
Quad-Split Indoor/Outdoor Combinations	 High-Wall	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	€3,534 €3,929 €4,576 €4,600 4 x RAV-RM301KRTP-E	€4,321 €4,921 4 x RAV-RM401KRTP-E	€6,456 4 x RAV-RM561KRTP-E	€6,627 4 x RAV-RM801KRTP-E
	 Compact Cassette	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	€6,070 €6,465 €7,112 €7,136 4 x RAV-RM301MUT-E	€6,753 €7,353 4 x RAV-RM401MUT-E	€8,552 4 x RAV-RM561MUT-E	
	 4-Way Cassette	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase			€8,328 4 x RAV-RM561UTP-E	€8,631 4 x RAV-SM801UTP-E
	 Slim Ducted	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase	€4,734 €5,129 €5,776 €5,800 4 x RAV-RM301SDT-E	€5,449 €6,049 4 x RAV-RM401SDT-E	€7,240 4 x RAV-RM561SDT-E	
	 Ducted	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase			€5,750 4 x RAV-RM561BTP-E1	€6,832 4 x RAV-RM801BTP-E1
	 Ceiling Suspended	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase		€5,677 €6,277 4 x RAV-RM401CTP-E	€7,692 4 x RAV-RM561CTP-E	€8,315 4 x RAV-RM801CTP-E
	 Floor-Mounted + RBC-CK2	DI 1 phase DI 3 phase SDI 1 phase SDI 3 phase			€11,387 4 x RAV-RM561FT-ES	€11,886 4 x RAV-RM801FT-ES

The indoor unit prices shown are the total retail price for the 2, 3 or 4 indoor units required for that particular combination. The total retail price includes 1 x RBC-AMT32E remote controller and the branch pipe kit (triple systems only). Accessory price breakdown available on page 209 to page 217. If the outdoor units are used as part of a twin-split, then restrictions on pipe lengths apply. Please consult the technical manual for full technical specifications.

TOSHIBA



Estia Air-to-Water Heat Pump Split System Overview

Nominal Cooling Capacity			kW	4.5	7.0	10.0	12.5	14.0
Nominal Heating Capacity			kW	4.5	8.0	11.2	14.0	16.0
			hp	2	3	4	5	6
Estia Standard Air-to-Water Heat Pump	**Outdoor Unit** Full Spec Page 189		1 phase	€1,107 HWS-455H-E	€2,722 HWS-805H-E	€3,198 HWS-1105H-E	€3,535 HWS-1405H-E	
			3 phase			€3,521 HWS-1105H8-E	€3,803 HWS-1405H8-E	€4,323 HWS-1605H8-E
	Indoor Hydro Unit Full Spec Page 189		1 phase	€3,797 HWS-455XWHM3-E	€3,923 HWS-805XWHM3-E	€5,000 HWS-1405XWHM3-E	€5,000 HWS-1405XWHM3-E	€5,000 HWS-1405XWHM3-E
			3 phase		€4,076 HWS-805XWHT6-E	€5,154 HWS-1405XWHT6-E	€5,154 HWS-1405XWHT6-E	€5,154 HWS-1405XWHT6-E
			3 phase			€5,181 HWS-1405XWHT9-E	€5,181 HWS-1405XWHT9-E	€5,181 HWS-1405XWHT9-E
	Domestic Hot Water Tank Full Spec Page 189		1 phase	€1,245 HWS-1501CSHM3-UK	€1,245 HWS-1501CSHM3-UK	€1,245 HWS-1501CSHM3-UK	€1,245 HWS-1501CSHM3-UK	€1,245 HWS-1501CSHM3-UK
				€1,452 HWS-2101CSHM3-UK	€1,452 HWS-2101CSHM3-UK	€1,452 HWS-2101CSHM3-UK	€1,452 HWS-2101CSHM3-UK	€1,452 HWS-2101CSHM3-UK
				€1,707 HWS-3001CSHM3-UK	€1,707 HWS-3001CSHM3-UK	€1,707 HWS-3001CSHM3-UK	€1,707 HWS-3001CSHM3-UK	€1,707 HWS-3001CSHM3-UK
Estia Powerful Air-to-Water Heat Pump	**Outdoor Unit** Full Spec Page 191		1 phase		€3,539 HWS-P805HR-E	€3,594 HWS-P1105HR-E		
	Indoor Hydro Unit Full Spec Page 191		1 phase		€3,923 HWS-P805XWHM3-E	€5,000 HWS-P1105XWHM3-E		
			3 phase		€4,076 HWS-P805XWHT6-E	€5,154 HWS-P1105XWHT6-E		
			3 phase		€4,215 HWS-P805XWHT9-E	€5,181 HWS-P1105XWHT9-E		
	Domestic Hot Water Tank Full Spec Page 191		1 phase		€1,245 HWS-1501CSHM3-UK	€1,245 HWS-1501CSHM3-UK		
					€1,452 HWS-2101CSHM3-UK	€1,452 HWS-2101CSHM3-UK		
					€1,707 HWS-3001CSHM3-UK	€1,707 HWS-3001CSHM3-UK		

VRF



VRF Outdoor Unit Overview

Nominal Cooling Capacity	kW	12.1	14.0	15.5	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0	73.5
Nominal Heating Capacity	kW	13.2	14.2	15.5	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	76.5	81.5
	hp	4	5	6	8	10	12	14	16	18	20	22	24	26
 **2-pipe MiNi SMMSe single fan** Full Spec Page 122	1 phase	€3,306	€3,328											
	Model Reference MCY-MHP	0406HT-E	0506HT-E1											
 **2-pipe MiNi SMMSe** Full Spec Page 122	1 phase	€4,146	€4,646	€4,971	€5,727	€5,934								
	Model Reference MCY-MHP	0404HS-E	0504HS-E	0604HS-E	0806HS8-E	1006HS8-E								
 **2-pipe MiNi SMMSe** Full Spec Page 123	3 phase				€5,727	€5,934								
	Model Reference MCY-MHP				0806HS8-E	1006HS8-E								
 **2-pipe SMMSe** Full Spec Page 127	3 phase				€7,733	€8,342	€9,545	€11,308	€12,190	€13,170	€14,036	€14,963	€19,090	€20,853
	Model Reference MMY-MAP				0806 HT8P-E	1006 HT8P-E	1206 HT8P-E	1406 HT8P-E	1606 HT8P-E	1806 HT8P-E	2006 HT8P-E	2206 HT8P-E	2416 HT8P-E	2616 HT8P-E
 **2-pipe SMMSe (High Efficiency)** Full Spec Page 133	3 phase										€16,684	€17,887		
	Model Reference MMY-MAP										2026 HT8P-E	2226 HT8P-E		
 **3-pipe SHRMe** Full Spec Page 138	3 phase				€7,698	€8,308	€11,250	€11,774	€12,871	€13,717	€14,621	€19,558	€20,081	€23,024
	Model Reference MMY-MAP				0806 FT8P-UK	1006 FT8P-UK	1206 FT8P-UK	1406 FT8P-UK	1606 FT8P-UK	1806 FT8P-UK	2006 FT8P-UK	2216 FT8P-UK	2416 FT8P-UK	2616 FT8P-UK
 **3-pipe SHRMe (High Efficiency)** Full Spec Page 142	3 phase								€15,396	€16,006	€16,615		€23,094	€23,704
	Model Reference MMY-MAP								1626 FT8P-UK	1826 FT8P-UK	2026 FT8P-UK		2426 FT8P-UK	2626 FT8P-UK

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VRF Outdoor Unit Overview (continued)

78.5	85.0	90.0	95.4	101.0	106.5	112.0	117.5	123.0	130.0	135.0	140.4	146.0	151.5	157.0	162.5	168.0
87.5	95.0	100.0	106.0	113.0	114.0	126.0	127.0	128.0	145.0	150.0	156.0	163.0	164.0	176.0	177.0	178.0
28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
€21,735	€23,498	€24,380	€25,360	€26,226	€27,153	€28,072	€28,998	€29,925	€35,688	€36,570	€37,550	€38,416	€39,343	€40,262	€41,188	€42,115
2816 HT8P-E	3016 HT8P-E	3216 HT8P-E	3416 HT8P-E	3616 HT8P-E	3816 HT8P-E	4016 HT8P-E	4216 HT8P-E	4416 HT8P-E	4616 HT8P-E	4816 HT8P-E	5016 HT8P-E	5216 HT8P-E	5416 HT8P-E	5616 HT8P-E	5816 HT8P-E	6016 HT8P-E
				€28,635	€30,398	€32,161	€33,924	€34,806					€39,379			
				3626 HT8P-E	3826 HT8P-E	4026 HT8P-E	4226 HT8P-E	4426 HT8P-E					5426 HT8P-E			
€23,547	€24,645	€25,491	€26,588	€27,434	€28,338	€29,242	€35,321									
2816 FT8P-UK	3016 FT8P-UK	3216 FT8P-UK	3416 FT8P-UK	3616 FT8P-UK	3816 FT8P-UK	4016 FT8P-UK	4216 FT8P-UK									
€24,313	€24,923			€33,751			€34,049									
2826 FT8P-UK	3026 FT8P-UK			3626 FT8P-UK			4226 FT8P-UK									

VRF









VRF Indoor Unit Overview

Nominal Cooling Capacity		kW	1.7	2.2	2.8	3.6	4.5	5.6
Nominal Heating Capacity		kW	1.9	2.5	3.2	4.0	5.0	6.3
		hp	0.6	0.8	1	1.25	1.7	2
Cassette Indoor Units		**4-Way Compact Cassette** Full Spec Page 150	**Price**	€1,099	€1,121	€1,187	€1,228	€1,281	€1,349
			Model Ref	MMU-AP0057MH-E	MMU-AP0077MH-E	MMU-AP0097MH-E	MMU-AP0127MH-E	MMU-AP0157MH-E	MMU-AP0187MH-E
		**4-Way Cassette** Full Spec Page 151	**Price**			€1,201	€1,229	€1,283	€1,311
			Model Ref			MMU-AP0094HP1-E	MMU-AP0124HP1-E	MMU-AP0154HP1-E	MMU-AP0184HP1-E
		**2-Way Cassette** Full Spec Page 152	**Price**		€1,457	€1,496	€1,532	€1,582	€1,801
			Model Ref		MMU-AP0072WH1	MMU-AP0092WH1	MMU-AP0122WH1	MMU-AP0152WH1	MMU-AP0182WH1
		**1-Way Cassette** Full Spec Page 153	**Price**		€1,748	€1,793	€1,839	€1,774	€1,976
			Model Ref		MMU-AP0074YH1-E	MMU-AP0094YH1-E	MMU-AP0124YH1-E	MMU-AP0154SH1-E	MMU-AP0184SH1-E
Ducted Type		**Slim Ducted** Full Spec Page 154	**Price**	€829	€830	€842	€865	€900	€945
			Model Ref	MMD-AP0056SPH1-E	MMD-AP0074SPH1-E	MMD-AP0094SPH1-E	MMD-AP0124SPH1-E	MMD-AP0154SPH1-E	MMD-AP0184SPH1-E
		**Standard Ducted** Full Spec Page 155	**Price**		€955	€927	€980	€1,009	€1,076
			Model Ref		MMD-AP0076BHP1-E	MMD-AP0096BHP1-E	MMD-AP0126BHP1-E	MMD-AP0156BHP1-E	MMD-AP0186BHP1-E
		**High-Static Ducted** Full Spec Page 156	**Price**						€1,332
			Model Ref						MMD-AP0186HP1-E
Ceiling Type		**Ceiling-Suspended** Full Spec Page 158	**Price**					€1,360	€1,503
			Model Ref					MMC-AP0158HP-E	MMC-AP0188HP-E
Wall-Mounted		**High-Wall 7 Series** Full Spec Page 149	**Price**	€748	€759	€768	€784	€888	€905
			Model Ref	MMK-AP0057HP-E	MMK-AP0077HP-E	MMK-AP0097HP-E	MMK-AP0127HP-E	MMK-AP0157HP-E	MMK-AP0187HP-E
Floor-Standing Type		**Concealed-Chassis** Full Spec Page 159	**Price**		€1,013	€1,038	€1,070	€1,119	€1,190
			Model Ref		MML-AP0074BH1-E	MML-AP0094BH1-E	MML-AP0124BH1-E	MML-AP0154BH1-E	MML-AP0184BH1-E
		**Floor-Mounted Console** Full Spec Page 159	**Price**		€1,214	€1,244	€1,274	€1,339	€1,421
			Model Ref		MML-AP0074H1-E	MML-AP0094H1-E	MML-AP0124H1-E	MML-AP0154H1-E	MML-AP0184H1-E
		**Bi-Flow Console** Full Spec Page 160	**Price**		€1,275	€1,373	€1,472	€1,571	€1,631
			Model Ref		MML-AP0074NH1-E	MML-AP0094NH1-E	MML-AP0124NH1-E	MML-AP0154NH1-E	MML-AP0184NH1-E
		**Floor-Mounted Cabinet** Full Spec Page 161	**Price**					€1,669	€1,771
			Model Ref					MMF-AP0156H1-E	MMF-AP0186H1-E
Air Movement		**Fresh Air Intake Unit** Full Spec Page 162	**Price**						
			Model Ref						
		**Air-to-Air with DX Coil Type** Full Spec Page 185	**Price**				€4,099		€5,973
			Model Ref				MMD-VN502HEX1E		MMD-VN802HEX1E
		Air-to-Air with DX Coil and Humidifier Type Full Spec Page 186	**Price**				€4,625		€6,733
			Model Ref				MMD-VNK502HEX1E		MMD-VNK802HEX1E
Heating		**Hot Water Module (SMMSe/SHRMe)** Full Spec Page 163	**Price**						
			Model Ref						

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VRF










VRF Indoor Unit Overview (continued)

7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
2.5	3	3.2	4	5	6	8	10
€1,359	€1,570	€1,694	€1,778	€1,847	€2,053		
MMU-AP0244HP1-E	MMU-AP0274HP1-E	MMU-AP0304HP1-E	MMU-AP0364HP1-E	MMU-AP0484HP1-E	MMU-AP0564HP1-E		
€1,887	€2,114	€2,131	€2,536	€2,740	€2,965		
MMU-AP0242WH1	MMU-AP0272WH1	MMU-AP0302WH1	MMU-AP0362WH1	MMU-AP0482WH1	MMU-AP0562WH1		
€2,078							
MMU-AP0244SH1-E							
€1,021	€1,103						
MMD-AP0244SPH1-E	MMD-AP0274SPH1-E						
€1,124	€1,248	€1,331	€1,527	€1,633	€1,734		
MMD-AP0246BHP1-E	MMD-AP0276BHP1-E	MMD-AP0306BHP1-E	MMD-AP0366BHP1-E	MMD-AP0486BHP1-E	MMD-AP0566BHP1-E		
€1,467	€1,532		€1,605	€1,777	€1,901	€3,207	€3,389
MMD-AP0246HP1-E	MMD-AP0276HP1-E		MMD-AP0366HP1-E	MMD-AP0486HP1-E	MMD-AP0566HP1-E	MMD-AP0726HP-E	MMD-AP0966HP-E
€1,593	€1,608		€1,631	€1,659	€1,776		
MMC-AP0248HP-E	MMC-AP0278HP-E		MMC-AP0368HP-E	MMC-AP0488HP-E	MMC-AP0568HP-E		
€998							
MMK-AP0247HP-E							
€1,237							
MML-AP0244BH1-E							
€1,484							
MML-AP0244H1-E							
€1,848	€1,902		€1,958	€2,057	€2,160		
MMF-AP0246H1-E	MMF-AP0276H1-E		MMF-AP0366H1-E	MMF-AP0486H1-E	MMF-AP0566H1-E		
				€2,506		€4,148	€4,383
				MMD-AP0481HFE		MMD-AP0721HFE	MMD-AP0961HFE
	€6,822						
	MMD-VN1002HEX1E						
	€7,700						
	MMD-VNK1002HEX1E						
€3,003				€3,079			
MMW-AP0271LQ-E				MMW-AP0561LQ-E			

RAS RESIDENTIAL AIR-TO-AIR

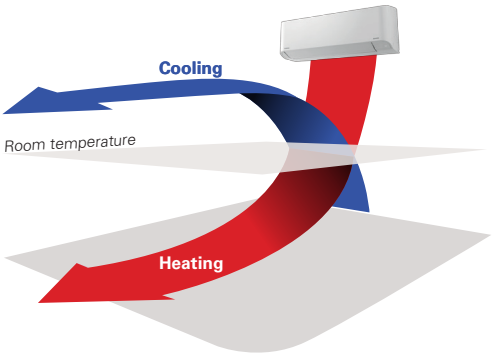
When technology meets comfort

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.



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

PWM — PWM (Pulse With Modulation) for energy efficiency.

The future is now

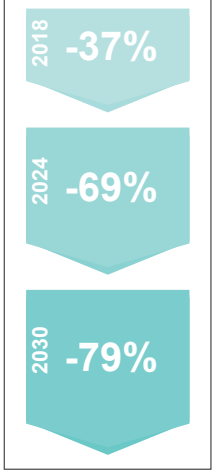
Energy efficiency by design
Toshiba products are designed to optimise energy performance at any time of year. This in turn reduces the amount of indirect $C0_2$ emissions generated by the electricity consumption.

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.

TOSHIBA R32 REFRIGERANT

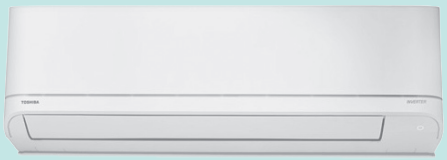
HFC consumption related to tons of CO_2 equivalent



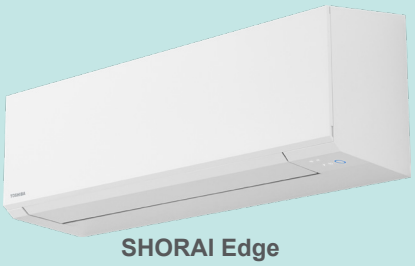
TOSHIBA



DAISEIKAI 9



SHORAI



SHORAI Edge



SEIYA



CONSOLE

TOSHIBA R32 REFRIGERANT

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

TOSHIBA R32 REFRIGERANT



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	m^3/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	m^3/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	**€207**	**€219**	**€223**	**€229**
OUTDOOR RETAIL PRICE	**€489**	**€514**	**€526**	**€601**
SYSTEM RETAIL PRICE (inc. Infra-red controller)	**€696**	**€733**	**€749**	**€830**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	Remote controller weekly-timer	€68
RB-N103S-G	WIFI Control (model 24)	WiFi adapter	€135
RB-N104S-G	WIFI Control (model 05-18)	WiFi adapter and cable	€140



- Wall installation
- Single-split
- Self-cleaning (20 Mins.)
- Remote control included
- Automatic restart (AUTO)
- Dry function (DRY)
- Hi-power
- ECO logic (ECO)
- Auto-diagnosis (CHECK)
- Drain connection both sides

TOSHIBA

SEIYA

TOSHIBA R32 REFRIGERANT



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++
	Seasonal Energy Consumption	kWh/a	241	278	373
Heating EN14825	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
	SCOP/Energy Efficiency Class		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	m^3/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	m^3/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	**€299**	**€359**	**€430**
OUTDOOR RETAIL PRICE	**€848**	**€1,018**	**€1,220**
SYSTEM RETAIL PRICE (inc. Infra-red controller)	**€1,147**	**€1,377**	**€1,650**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	Remote controller weekly-timer	€68
RB-N103S-G	WIFI Control (model 24)	WiFi adapter	€135
RB-N104S-G	WIFI Control (model 05-18)	WiFi adapter and cable	€140



- Wall installation
- Single-split
- Self-cleaning
- Remote control included
- Automatic restart
- Dry function
- Hi-power
- ECO logic
- Auto-diagnosis
- Drain connection both sides

SHORAI

TOSHIBA R32 REFRIGERANT



Shorai High-Wall Mounted Inverter Heat Pump

CODE			25	35	46	50	61	70
Performance								
Indoor Unit		**RAS-**	**B10PKVSG-E**	**B13PKVSG-E**	**B16PKVSG-E**	**18PKVSG-E**	**B22PKVSG-E**	**B24PKVSG-E**
Outdoor Unit		**RAS-**	**10PAVSG-E**	**13PAVSG-E**	**16PAVSG-E**	**18PAVSG-E**	**22PAVSG-E**	**24PAVSG-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	4.17/4.27	3.33/3.89	3.29/3.62	3.52/3.75	3.07/3.61	3.11/3.32
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	0.75 - 3.2	0.8 - 4.1	1.2 - 5.3	1.2 - 6.0	1.3 - 6.7	1.5 - 7.7
	Power Input	kW	0.6	1.05	1.4	1.42	1.99	2.25
	Pdesign	kW	2.5	3.5	4.6	5.0	6.1	7.0
	SEER/Energy Efficiency Class		6.90/A++	6.50/A++	6.50/A++	7.30/A++	6.80/A++	6.25/A++
	Seasonal Energy Consumption	kWh/a	127	189	248	240	314	392
Heating EN14825	Range Min. - Max.	kW	0.9 - 4.8	0.9 - 5.3	0.9 - 6.5	0.8 - 6.5	0.9 - 7.5	1.6 - 8.8
	Power Input	kW	0.75	1.08	1.52	1.60	1.94	2.41
	Pdesign	kW	2.5	3.2	4.0	4.3	4.7	6.3
	SCOP/Energy Efficiency Class		4.60/A++	4.60/A++	4.20/A+	4.40/A+	4.40/A+	4.00/A+
	Seasonal Energy Consumption	kWh/a	761	974	1335	1368	1495	2166

Indoor Data		**RAS-**	**B10PKVSG-E**	**B13PKVSG-E**	**B16PKVSG-E**	**18PKVSG-E**	**B22PKVSG-E**	**B24PKVSG-E**
Air Flow	High - Low	l/s	167 - 67	176 - 83	213 - 92	264 - 139	273 - 168	313 - 184
	High - Low	m^3/h	600 - 240	636 - 300	768 - 330	950 - 499	984 - 606	1128 - 664
Sound	Pressure High - Low	dB(A)	39 - 23	39 - 23	43 - 25	44 - 26	46 - 27	48 - 28
	Power High - Low	dB(A)	54 - 39	54 - 39	58 - 41	59 - 46	61 - 49	63 - 50
Unit	Height x Width x Depth	mm	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	320 x 1050 x 250
	Weight	kg	9	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-TA17NE (Infra-Red)	WH-TA17NE (Infra-Red)	WH-TA17NE (Infra-Red)	WH-TC09NE (Infra-Red)	WH-TC09NE (Infra-Red)	WH-TC09NE (Infra-Red)

Outdoor Data		**RAS-**	**10PAVSG-E**	**13PAVSG-E**	**16PAVSG-E**	**18PAVSG-E**	**22PAVSG-E**	**24PAVSG-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	m^3/h - l/s	1668 - 463	1980 - 550	2160 - 600	2076 - 576	2184 - 607	2916 - 810
Sound	Pressure High Cooling/Heating	dB(A)	46/47	48/50	49/52	49/50	53/52	53/53
	Power High Cooling/Heating	dB(A)	61/62	63/65	64/67	64/65	68/67	68/68
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	28	28	34	34	34	43
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	0.51/15	0.67/15	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	3.97	5.22	7.10	8.05	9.30	11.30
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**	**€427**	**€498**	**€501**	**€576**
OUTDOOR RETAIL PRICE	**€710**	**€879**	**€1,097**	**€1,129**	**€1,306**	**€1,502**
SYSTEM RETAIL PRICE (inc. Infra-red controller)	**€1,075**	**€1,263**	**€1,524**	**€1,627**	**€1,807**	**€2,078**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	Remote controller weekly-timer	€68
RB-N103S-G	WIFI Control (model 18-24)	WiFi adapter	€135
RB-N104S-G	WIFI Control (model 10-16)	WiFi adapter and cable	€140



- Wall installation
- Single-split
- Anti-dust pre-filter
- Self-cleaning (20 Mins.)
- Remote control included
- Auto-diagnosis (CHECK)
- Automatic restart
- Dry function (DRY)
- Drain connection both sides
- Hi-power
- ECO logic (ECO)

TOSHIBA

SHORAI Edge

TOSHIBA R32 REFRIGERANT



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-E**	**13J2AVSG-E**	**16J2AVSG-E**	**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
	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
Heating EN14825	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**	**18J2KVSG-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	m^3/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-E**	**13J2AVSG-E**	**16J2AVSG-E**	**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	m^3/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	**€390**	**€411**	**€449**	**€523**	**€541**	**€597**
OUTDOOR RETAIL PRICE	**€738**	**€915**	**€1,121**	**€1,152**	**€1,283**	**€1,502**
SYSTEM RETAIL PRICE (inc. Infra-red controller)	**€1,128**	**€1,326**	**€1,570**	**€1,675**	**€1,824**	**€2,099**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	Remote controller weekly-timer	€68
RB-N103S-G	WIFI Control (model 10-24)	WiFi adapter	€135



- Wall installation
- Single-split
- Anti-dust pre-filter
- Self-cleaning (20 Mins.)
- Remote control included
- Toshiba IAQ filter
- Automatic restart (AUTO)
- Dry function (DRY)
- Plasma air purifier (Ag+) (PAP)
- Hi-power
- ECO logic (ECO)
- Ionizer (35000)
- Auto-diagnosis (CHECK)
- Drain connection both sides

DAISEIKAI

TOSHIBA R32 REFRIGERANT



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+++
	Seasonal Energy Consumption	kWh/a	83	129	185
Heating EN14825	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		**RAS-**	**10PKVPG-E**	**13PKVPG-E**	**16PKVPG-E**
Air Flow	High - Low	l/s	200 - 83	200 - 83	206 - 86
	High - Low	m^3/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		**RAS-**	**10PAVPG-E**	**13PAVPG-E**	**16PAVPG-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	m^3/h - l/s	2160 - 600	2160 - 600	2160 - 600
Sound	Pressure High Cooling/Heating	dB(A)	46/47	48/50	49/50
	Power High Cooling/Heating	dB(A)	61/62	63/65	64/65
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			**€570**	**€587**	**€612**
OUTDOOR RETAIL PRICE			**€1,300**	**€1,380**	**€1,765**
SYSTEM RETAIL PRICE (inc. Infra-red controller)			**€1,870**	**€1,967**	**€2,377**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	Remote controller weekly-timer	€68
RB-N103S-G	WIFI Control (model 10-24)	WiFi adapter	€135



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

TOSHIBA



Bi-Flow Console Inverter Heat Pump

CODE			25	35	50
Performance					
Indoor Unit		**RAS-**	**B10J2FVG-E**	**B13J2FVG-E**	**B18J2FVG-E**
Outdoor Unit		**RAS-**	**10J2AVSG-E**	**13J2AVSG-E**	**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++
	Seasonal Energy Consumption	kWh/a	121	174	257
Heating EN14825	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		**RAS-**	**B10J2FVG-E**	**B13J2FVG-E**	**B18J2FVG-E**
Air Flow	High - Low	l/s	136 - 71	153 - 75	183 - 101
	High - Low	m^3/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		**RAS-**	**10J2AVSG-E**	**13J2AVSG-E**	**18J2AVSG-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	m^3/h - l/s	1890 - 524	1950 - 540	2076 - 576
Sound	Pressure High Cooling/Heating	dB(A)	45/47	47/49	49/51
	Power High Cooling/Heating	dB(A)	58/60	60/62	62/64
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	**€735**	**€802**	**€889**
OUTDOOR RETAIL PRICE	**€738**	**€915**	**€1,152**
SYSTEM RETAIL PRICE (inc. Infra-red controller)	**€1,473**	**€1,717**	**€2,041**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	WiFi adapter	€68
RB-N104S-G	WIFI Control (model 10-18)	WiFi adapter and cable	€140
RB-I301-E	Leak Detection	Leak detection sensor kit	€159

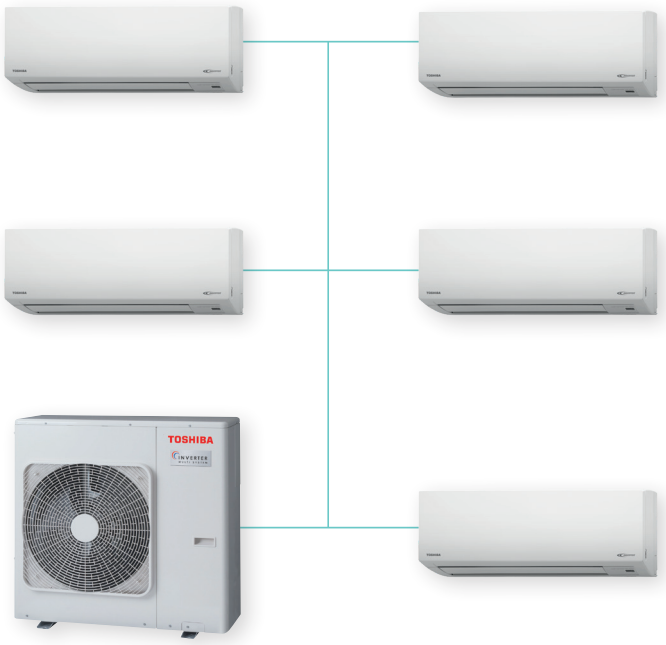


- Floor-mounted bi-flow
- Single-split
- Self-cleaning
- Remote control included
- Automatic restart
- Dry function
- Hi-power
- ECO logic
- Auto-diagnosis
- Drain connection both sides
- Anti-dust pre-filter
- Toshiba IAQ filter

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.

TOSHIBA

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°C in cooling.
- Up to 80 metres of frigorific connections for any installation type.
- Full line-up avaible 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.

TOSHIBA R32 REFRIGERANT

CE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

MAX EFFICIENCY	CAPACITY	OPERATION
SEER 6.90	4 kW > 10 kW	-20°C > +46°C

INDOOR UNITS



Indoor Unit

DAISEIKAI 9
SHORAI
SHORAI EDGE
SEIYA

CONSOLE
DUCT
COMPACT CASSETTE

OUTOOR 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)

TOSHIBA



Multi-Split Outdoor Units

CODE			30	40	50	50
Performance						
Outdoor Unit		**RAS-**	**2M10U2AVG-E**	**2M14U2AVG-E**	**2M18U2AVG-E**	**3M18U2AVG-E**
Capacity Code		Min.-Max.	10-20	10-26	10-32	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
	EER/COP	W/W	4.35/4.94	4.35/4.94	3.88/4.71	4.44/4.30
Cooling EN14825	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++
	Seasonal Energy Consumption	kWh/a	172	208	261	268
Heating EN14825	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		**RAS-**	**2M10U2AVG-E**	**2M14U2AVG-E**	**2M18U2AVG-E**	**3M18U2AVG-E**
Operating Range	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	m^3/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

* Waiting for published data.

OUTDOOR RETAIL PRICE	€1,079	€1,101	€1,210	€1,715



Multi-Split Outdoor Units (continued)

CODE			75	80	100
Performance					
Outdoor Unit		**RAS-**	**3M26U2AVG-E**	**4M27U2AVG-E**	**5M34U2AVG-E**
Capacity Code		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
	EER/COP	W/W	3.75/4.09	3.5/4.67	3.36/4.24
Cooling EN14825	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		**RAS-**	**3M26U2AVG-E**	**4M27U2AVG-E**	**5M34U2AVG-E**
Operating Range	Cooling/Heating	°C	-10 to 46/-15 to 24	-10 to 46/-15 to 24	-10 to 46/-15 to 24
Air Flow	High	m^3/h - l/s	2508 - 696	2508 - 696	3666 - 1018
Sound	Pressure High	dB(A)	49	49	55
	Power High	dB(A)	64	64	68
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Weight	kg	72	72	78
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
	Drain Port Connection	mm	16	16	16
Refrigerant R32	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	€2,023	€2,469	€2,812

SEIYA



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			**RAS-**	**B05J2KVG-E**	**B07J2KVG-E**	**B10J2KVG-E**	**B13J2KVG-E**	**B16J2KVG-E**
Air Flow	High - Low		l/s	145 - 65	148 - 65	153 - 67	172 - 73	213 - 97
	High - Low		m^3/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				**€207**	**€219**	**€223**	**€229**	**€299**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	WiFi adapter	€68
RB-N104S-G	WIFI Control (model 05-16)	WiFi adapter and cable	€140

SHORAI



Multi-Split Shorai High-Wall Indoor Unit

CODE				27	37	45	60	71
Performance								
Indoor Unit			**RAS-**	**B10PKVSG-E**	**B13PKVSG-E**	**B16PKVSG-E**	**B22PKVSG-E**	**B24PKVSG-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	3.53	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	0.035	0.030	0.040	0.043
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	0.040	0.040	0.035	0.040	0.043
Indoor Data			**RAS-**	**B10PKVSG-E**	**B13PKVSG-E**	**B16PKVSG-E**	**B22PKVSG-E**	**B24PKVSG-E**
Air Flow	High - Low		l/s	167 - 67	176 - 83	213 - 92	273 - 168	313 - 184
	High - Low		m^3/h	600 - 240	636 - 300	768 - 330	984 - 606	1128 - 664
Sound	Pressure High - Low		dB(A)	39 - 24	39 - 24	43 - 26	46 - 34	48 - 35
	Power High - Low		dB(A)	54 - 39	54 - 39	58 - 41	61 - 51	63 - 50
Unit	Height x Width x Depth		mm	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	9	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-TA17NE	WH-TA17NE	WH-TA17NE	WH-TC09NE	WH-TC09NE
INDOOR RETAIL PRICE				**€365**	**€384**	**€427**	**€501**	**€576**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	Remote controller weekly-timer	€68
RB-N103S-G	WIFI Control (model 22-24)	WiFi adapter	€135
RB-N104S-G	WIFI Control (model 10-16)	WiFi adapter and cable	€140

SHORAI Edge



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	m^3/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			**€390**	**€411**	**€449**	**€541**	**€597**

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	Remote controller weekly-timer	€68
RB-N103S-G	WIFI Control (model 10-24)	WiFi adapter	€135



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		**RAS-**	**M10U2MUVG-E**	**M13U2MUVG-E**	**M16U2MUVG-E**
Air Flow	High - Low	l/s	164 - 119	172 - 119	189 - 125
	High - Low	m^3/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			**€1,098**	**€1,181**	**€1,243**

Accessories

RBC-AX32UM(W)-E	Remote Controller	Wireless remote controller (new 7 series compact cassettes)	€125
RB-RWS21E	Remote Controller	Hard-wired remote controller RAS cassette	€190
TCB-SIR41UM-E	Occupancy Sensor	Occupancy sensor (new 7 series compact cassettes)	€90



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		m^3/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				**€846**	**€858**	**€869**	**€927**	**€1,083**	**€1,120**

Accessories

RB-RWS21E	Remote Controller	Hard-wired remote controller	€190

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		m^3/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				**€735**	**€802**	**€889**

* Waiting for published data.

Accessories

RB-RXS30-E	Remote Controller	Weekly-timer, single combination	€74
RB-RXS33-E	Remote Controller	WiFi adapter	€68
RB-N104S-G	WIFI Control (model 10-18)	WiFi adapter and cable	€140
RB-I301-E	Leak Detection	Leak detection sensor kit	€159

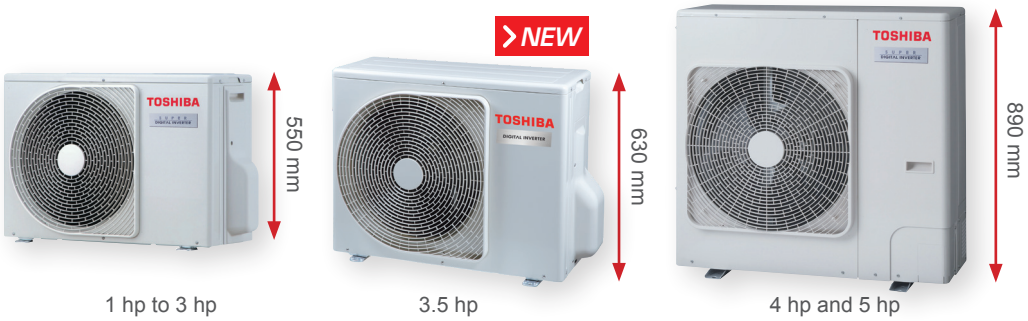
TOSHIBA

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.

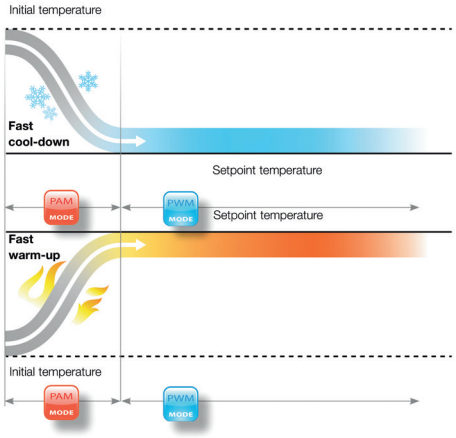
Small and light chassis

- 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.



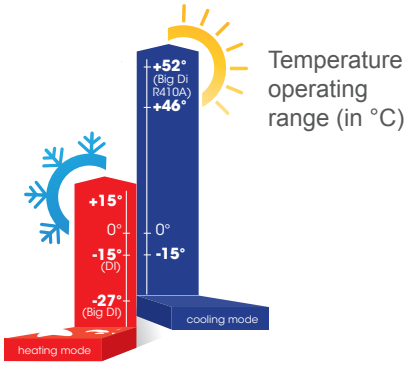
Wide capacity range

- 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.

		1 hp	1.5 hp	2 hp	3 hp	3.5 hp	4 hp	5 hp	6 hp	8 hp	10 hp
TOSHIBA R32 REFRIGERANT	1 ph	✓	✓	✓	✓	✓	✓	✓	✓		
	3 ph						✓	✓	✓	✓	✓
R410A >>> with TOSHIBA	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.



Temperature operating range (in °C)

TOSHIBA

SUPER DIGITAL INVERTER

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

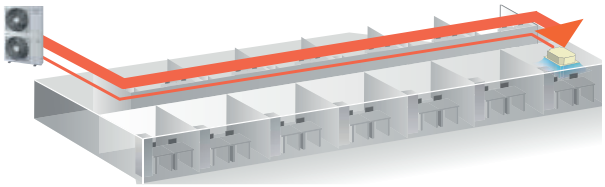
Ideal couple: DC twin-rotary compressor and vector-controlled inverter

- 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!

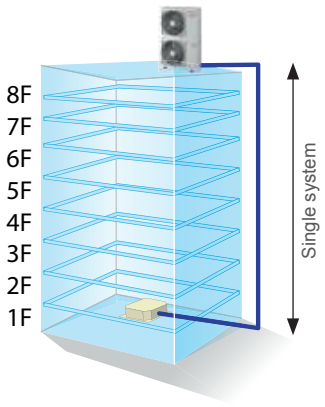


Piping flexibility

- 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

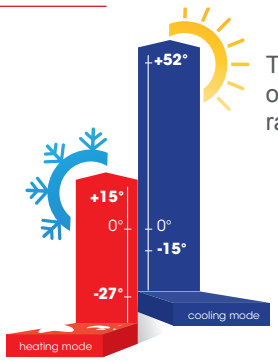


Height between indoor units 30 m

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.



Temperature operating range in °C

TOSHIBA

DIGITAL INVERTER



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	m^3/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	m^3/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	±10	±10
	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	**€396**	**€429**	**€529**	**€570**
OUTDOOR RETAIL PRICE	**€721**	**€863**	**€1,029**	**€1,357**
SYSTEM RETAIL PRICE (inc. Infra-red controller)	**€1,117**	**€1,292**	**€1,558**	**€1,927**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

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	m^3/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	m^3/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	±10	±10	±10
	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	220-240/1/50-16	380-415/3/50-10

INDOOR RETAIL PRICE	**€628**	**€685**	**€685**
OUTDOOR RETAIL PRICE	**€1,493**	**€1,785**	**€2,159**
SYSTEM RETAIL PRICE (inc. Infra-red controller)	**€2,121**	**€2,470**	**€2,844**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

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

TOSHIBA

DIGITAL INVERTER



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+
	Seasonal Energy Consumption	kWh/a	158	235	319
Heating EN14825	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		**RAV-**	**RM301MUT-E**	**RM401MUT-E**	**RM561MUT-E**
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data		**RAV-**	**GM301ATP-E**	**GM401ATP-E**	**GM561ATP-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	m^3/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			**€1,018**	**€1,031**	**€1,056**
OUTDOOR RETAIL PRICE			**€679**	**€813**	**€992**
REMOTE CONTROLLER RBC-AMT32E			**€68**	**€68**	**€68**
SYSTEM RETAIL PRICE			**€1,765**	**€1,912**	**€2,116**

Accessories

RBC-AX32UM(W)-E	Remote Controller	Wireless infra-red controller and receiver	€125
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82
TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	€90

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

TOSHIBA

DIGITAL INVERTER



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++
	Seasonal Energy Consumption	kWh/a	285	404	389	597	597
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	1.36	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		**RAV-**	**RM561UTP-E**	**RM801UTP-E**	**GM901UTP-E**	**RM1101UTP-E**	**RM1101UTP-E**
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	m^3/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	256 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-UM31PGP(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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

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	m^3/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	**€997**	**€1,071**	**€1,119**	**€1,167**	**€1,167**
OUTDOOR RETAIL PRICE	**€1,029**	**€1,357**	**€1,493**	**€1,785**	**€2,159**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€2,095**	**€2,497**	**€2,681**	**€3,021**	**€3,395**

Accessories

RBC-AX32U(W)-E	Remote Controller	Wireless infra-red controller and receiver	£168
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

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

TOSHIBA



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
	Seasonal Energy Consumption	kWh/a	783	783	1033	1033
Heating EN14825	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	m^3/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-UM31PGP(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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
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	m^3/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			**€1,194**	**€1,194**	**€1,277**	**€1,277**
OUTDOOR RETAIL PRICE			**€1,881**	**€2,276**	**€2,536**	**€2,818**
REMOTE CONTROLLER RBC-AMT32E			**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE			**€3,144**	**€3,539**	**€3,882**	**€4,164**

Accessories

RBC-AX32U(W)-E	Remote Controller	Wireless infra-red controller and receiver	£168
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

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

DIGITAL INVERTER



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++	5.86/A+
	Seasonal Energy Consumption	kWh/a	211	324	429	459	604
Heating EN14825	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++	4.27/A+
	Seasonal Energy Consumption	kWh/a	1125	1562	2372	1917	2489

Indoor Data		**RAV-**	**RM401CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**GM901CTP-E**	**RM1101CTP-E**
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	m^3/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 1270 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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM401ATP-E**	**GM561ATP-E**	**GM801ATP-E**	**GM901ATP-E**	**GM1101ATP-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	m^3/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	**€768**	**€838**	**€992**	**€1,037**	**€1,082**
OUTDOOR RETAIL PRICE	**€863**	**€1,029**	**€1,357**	**€1,493**	**€1,785**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€1,700**	**€1,936**	**€2,418**	**€2,599**	**€2,936**

Accessories

RBC-AX33CE	Remote Controller	Wireless infra-red controller and receiver	€212
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

Ceiling installation

Auto-diagnosis

Chargeless

Self-cleaning

Single-split

Low ambient cooling to -15°C DB

Automatic restart

Drain connection both sides

Wired controller

TOSHIBA



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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

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	m^3/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	**€1,082**	**€1,364**	**€1,364**	**€1,389**	**€1,389**
OUTDOOR RETAIL PRICE	**€2,159**	**€1,881**	**€2,276**	**€2,536**	**€2,818**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,310**	**€3,314**	**€3,709**	**€3,994**	**€4,276**

Accessories

RBC-AX33CE	Remote Controller	Wireless infra-red controller and receiver	€212
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

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
	EER/COP	W/W	2.73/3.27	2.82/3.32	3/3.4	3.18/3.75	3.18/3.75
UK	Cooling Total/Sensible	kW	4.80/3.60	6.30/4.90	7.83/5.78	9.10/7.37	9.10/7.37
	Heating	kW	3.79	5.51	6.12	8.01	8.01
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	1.9 - 8.8	3.0 - 11.2	3.0 - 11.2
	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
	Pdesign	kW	2.80	5.10	5.10	7.60	7.60
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.08/A+	4.13/A+	4.60/A++	4.19/A+	4.19/A+
	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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

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	m^3/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	**€749**	**€966**	**€1,036**	**€1,105**	**€1,105**
OUTDOOR RETAIL PRICE	**€1,029**	**€1,357**	**€1,493**	**€1,785**	**€2,159**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€1,847**	**€2,392**	**€2,598**	**€2,959**	**€3,333**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	€274
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€543
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	€133
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	€156
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E	€199

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

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	12.0	12.0	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
	Seasonal Energy Consumption	kWh/a	707	707	925	925
Heating EN14825	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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

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	m^3/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	**€1,234**	**€1,234**	**€1,346**	**€1,346**
OUTDOOR RETAIL PRICE	**€1,881**	**€2,276**	**€2,536**	**€2,818**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,184**	**€3,579**	**€3,951**	**€4,233**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	€274
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€543
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	€133
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	€156
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E	€199

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

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
	Seasonal Energy Consumption	kWh/a	143	227	346
Heating EN14825	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		**RAV-**	**RM301SDT-E**	**RM401SDT-E**	**RM561SDT-E**
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM301ATP-E**	**GM401ATP-E**	**GM561ATP-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	m^3/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	**€696**	**€711**	**€725**
OUTDOOR RETAIL PRICE	**€721**	**€863**	**€1,029**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€1,486**	**€1,643**	**€1,823**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	€274
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

Concealed false ceiling installation

Auto-diagnosis

Low ambient cooling to -15°C DB

Automatic restart

Self-cleaning

Single-split

Chargeless

Wired controller

Built-in drain pump

TOSHIBA

DIGITAL INVERTER



High-Static Ducted Indoor Unit

CODE			200	230
Performance				
Indoor Unit		**RAV-**	**RM2241DTP-E**	**RM2801DTP-E**
Outdoor Unit		**RAV-**	**GM2241AT8-E**	**GM2801AT8-E**
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
	Seasonal Energy Consumption	kWh/a	2468	2928
Heating EN14825	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		**RAV-**	**RM2241DTP-E**	**RM2801DTP-E**
Air Flow	High - Medium - Low	l/s	1056 - 889 - 694	1333 - 1167 - 972
	High - Medium - Low	m^3/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
Remote Controller			RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM2241AT8-E**	**GM2801AT8-E**
Operating Range	Cooling/Heating	°C	46 to -15/15 to -27	46 to -15/15 to -27
Air Flow	High	m^3/h - l/s	9150 - 2541	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	5-60	5-60
	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	**€3,211**	**€3,404**
OUTDOOR RETAIL PRICE	**€4,271**	**€4,278**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**
SYSTEM RETAIL PRICE	**€7,551**	**€7,751**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

Concealed false ceiling installation

Auto-diagnosis

Chargeless

Self-cleaning

Single-split

Wired controller

Automatic restart

Low ambient cooling to -15°C DB

TOSHIBA

DIGITAL INVERTER



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**	**RM1401FT-ES**
Outdoor Unit		**RAV-**	**GM561ATP-E**	**GM801ATP-E**	**GM1101ATP-E**	**GM1101AT8P-E**	**GM1401ATP-E**	**GM1401AT8P-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
	Seasonal Energy Consumption	kWh/a	340	479	644	644	1492	1492
Heating EN14825	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		**RAV-**	**RM561FT-ES**	**RM801FT-ES**	**RM1101FT-ES**	**RM1101FT-ES**	**RM1401FT-ES**	**RM1401FT-ES**
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	m^3/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		**RAV-**	**GM561ATP-E**	**GM801ATP-E**	**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	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m^3/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	**€1,779**	**€1,902**	**€2,046**	**€2,046**	**€2,141**	**€2,141**
OUTDOOR RETAIL PRICE	**€1,029**	**€1,357**	**€1,785**	**€2,159**	**€1,881**	**€2,276**
SYSTEM RETAIL PRICE	**€2,808**	**€3,259**	**€3,831**	**€4,205**	**€4,022**	**€4,417**

Accessories

RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	€12

TOSHIBA

DIGITAL INVERTER



Twin-Split High-Wall Indoor Unit

CODE			50	69	95	95
Performance						
Indoor Unit 1		**RAV-**	**RM301KRTP-E**	**RM401KRTP-E**	**RM561KRTP-E**	**RM561KRTP-E**
Indoor Unit 2		**RAV-**	**RM301KRTP-E**	**RM401KRTP-E**	**RM561KRTP-E**	**RM561KRTP-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	3.01/3.42	2.75/2.95	3.19/3.75	3.19/3.75
UK	Cooling Total/Sensible	kW	4.75/3.61	6.36/4.66	9.5/7.22	9.5/7.22
	Heating	kW	3.79	5.51	8.01	8.01
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	1.66	2.44	2.98	2.98
	Pdesign	kW	5.00	6.70	9.50	9.50
	SEER/Energy Efficiency Class (or ηsc %)		6.19/A++	5.73/A+	5.32/A	5.32/A
	Seasonal Energy Consumption	kWh/a	283	409	625	625
Heating EN14825	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	1.55	2.61	2.99	2.99
	Pdesign	kW	2.80	5.10	7.60	7.60
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.00/A+	4.01/A+	4.19/A+	4.19/A+
	Seasonal Energy Consumption	kWh/a	980	1780	2539	2539

Indoor Data		**RAV-**	**RM301KRTP-E**	**RM401KRTP-E**	**RM561KRTP-E**	**RM561KRTP-E**
Air Flow	High - Medium - Low	l/s	186 - 150 - 125	194 - 161 - 125	267 - 231 - 189	267 - 231 - 189
	High - Medium - Low	m^3/h	670 - 540 - 450	700 - 580 - 450	960 - 830 - 680	960 - 830 - 680
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	41 - 36 - 30	42 - 39 - 36	42 - 39 - 36
	Power High - Medium - Low	dB(A)	55 - 49 - 44	55 - 51 - 45	57 - 54 - 51	57 - 54 - 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	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	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-L11SE

Outdoor Data		**RAV-**	**GM561ATP-E**	**GM801ATP-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
Air Flow	High	m^3/h - l/s	2400 - 667	2700 - 750	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	54/57	54/57
	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	7.78	12.23	14.50	4.85
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	**€792**	**€858**	**€1,058**	**€1,058**
OUTDOOR RETAIL PRICE	**€1,029**	**€1,357**	**€1,785**	**€2,159**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€1,890**	**€2,284**	**€2,912**	**€3,286**

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

DIGITAL INVERTER



Twin-Split High-Wall Indoor Unit (continued)

CODE			120	120	140	140
Performance						
Indoor Unit 1		**RAV-**	**RM801KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**
Indoor Unit 2		**RAV-**	**RM801KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**	**RM801KRTP-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	13.0	13.0	16.0	16.0
	EER/COP	W/W	2.57/3.37	2.57/3.37	2.75/3.21	2.75/3.21
UK	Cooling Total/Sensible	kW	12.72/9.32	12.72/9.32	13.40/9.60	13.40/9.60
	Heating	kW	9.3	9.3	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	4.71	4.71	5.09	5.09
	Pdesign	kW	12.10	12.10	12.1	12.1
	SEER/Energy Efficiency Class (or ηsc %)		5.24/206.6	5.24/206.6	5.10/201.0	5.10/201.0
	Seasonal Energy Consumption	kWh/a	1385	1385	-*	-*
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0
	Power Input	kW	3.86	3.86	4.98	4.98
	Pdesign	kW	13.00	13.00	13.0	13.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.19/164.6	4.98/196.2	4.98/196.2
	Seasonal Energy Consumption	kWh/a	2539	2539	-*	-*

Indoor Data		**RAV-**	**RM801KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**
Air Flow	High - Medium - Low	l/s	289 - 253 - 189	289 - 253 - 189	289 - 253 - 189	289 - 253 - 189
	High - Medium - Low	m^3/h	1040 - 910 - 680	1040 - 910 - 680	1040 - 910 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	45 - 41 - 35	45 - 41 - 35	45 - 41 - 35	45 - 41 - 35
	Power High - Medium - Low	dB(A)	60 - 56 - 51	60 - 56 - 51	60 - 56 - 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	320 x 1050 x 250
	Weight	kg	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
	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	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-L17SE	WH-L11SE	WH-TA09NE	WH-TA09NE

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	m^3/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	kg	R32 - 2.1	R32 - 2.1	R32 - 2.4	R32 - 2.4
	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	22.80	7.60	24.61	8.20
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

* Waiting for published data.

INDOOR RETAIL PRICE	**€1,140**	**€1,140**	**€1,140**	**€1,140**
OUTDOOR RETAIL PRICE	**€1,881**	**€2,276**	**€2,536**	**€2,818**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,090**	**€3,485**	**€3,745**	**€4,027**

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

TOSHIBA

DIGITAL INVERTER



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		**RAV-**	**RM301MUT-E**	**RM401MUT-E**	**RM561MUT-E**	**RM561MUT-E**
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152	222 - 187 - 152
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM561ATP-E**	**GM801ATP-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
Air Flow	High	m^3/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

* Waiting for published data.

INDOOR RETAIL PRICE	**€2,060**	**€2,074**	**€2,106**	**€2,106**
OUTDOOR RETAIL PRICE	**€1,029**	**€1,357**	**€1,785**	**€2,159**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,158**	**€3,500**	**€3,960**	**€4,334**

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

DIGITAL INVERTER



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	9.5	12.0	12.0
	Heating Capacity	kW	11.2	11.2	12.8	12.8
	EER/COP	W/W	3.31/3.82	3.31/3.82	2.8/3.76	2.8/3.76
UK	Cooling Total/Sensible	kW	9.10/7.56	9.10/7.56	11.40/8.80	11.40/8.80
	Heating	kW	8.01	8.01	9.30	9.30
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	2.87	2.87	4.57	4.57
	Pdesign	kW	9.50	9.50	12.00	12.00
	SEER/Energy Efficiency Class		5.94/A+	5.94/A+	5.71/A+	5.71/A+
	Seasonal Energy Consumption	kWh/a	560	560	754	754
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	2.93	2.93	3.46	3.46
	Pdesign	kW	8.00	8.00	8.00	8.00
	SCOP/Energy Efficiency Class		4.28/A+	4.28/A+	4.29/A+	4.29/A+
	Seasonal Energy Consumption	kWh/a	2614	2614	2609	2609

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	m^3/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-UM31PGP(W)-E	kg	4	4	4	4
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 OD/ID	mm	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
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

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	m^3/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	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	14.20	4.75	20.75	6.90
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	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16

INDOOR RETAIL PRICE	**€1,994**	**€1,994**	**€2,142**	**€2,142**
OUTDOOR RETAIL PRICE	**€1,785**	**€2,159**	**€1,881**	**€2,276**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,848**	**€4,222**	**€4,092**	**€4,487**

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

TOSHIBA



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-E**	**GM2801AT8-E**
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 ηsc %)		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 ηsc(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		**RAV-**	**RM801UTP-E**	**RM801UTP-E**	**RM1101UTP-E**	**RM1401UTP-E**
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-UM31PGP(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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	5-60	5-60
	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	35	35
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	**€2,142**	**€2,142**	**€2,334**	**€2,388**
OUTDOOR RETAIL PRICE	**€2,536**	**€2,818**	**€4,271**	**€4,278**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,747**	**€5,029**	**€6,674**	**€6,735**

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

DIGITAL INVERTER



Twin-Split Ceiling Indoor Unit

CODE			69	95	95	121	121
Performance							
Indoor Unit 1		**RAV-**	**RM401CTP-E**	**RM561CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**RM801CTP-E**
Indoor Unit 2		**RAV-**	**RM401CTP-E**	**RM561CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**RM801CTP-E**
Outdoor Unit		**RAV-**	**GM801ATP-E**	**GM1101ATP-E**	**GM1101AT8P-E**	**GM1401ATP-E**	**GM1401AT8P-E**
Nominal	Cooling Capacity	kW	6.9	9.5	9.5	12.1	12.1
	Heating Capacity	kW	7.7	11.2	11.2	12.8	12.8
	EER/COP	W/W	2.9/3.62	3.22/3.81	3.22/3.81	2.74/3.74	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	11.50/8.40
	Heating	kW	5.51	8.01	.9.30	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	3.0 - 13.2
	Power Input	kW	2.38	2.95	2.95	4.67	4.67
	Pdesign	kW	6.90	9.50	9.50	12.00	12.00
	SEER/Energy Efficiency Class (or ηsc %)		5.62/A+	5.85/A+	5.85/A+	5.36/211.4	5.36/211.4
	Seasonal Energy Consumption	kWh/a	429	568	568	660	660
Heating EN14825	Range Min. - Max.	kW	1.5 - 9.0	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
	Power Input	kW	2.13	2.94	2.94	3.48	3.48
	Pdesign	kW	5.10	7.60	7.60	8.00	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.21/A+	4.28/A+	4.28/A+	4.19/164.6	4.19/164.6
	Seasonal Energy Consumption	kWh/a	2372	2487	2487	2543	2543

Indoor Data		**RAV-**	**RM401CTP-E**	**RM561CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**RM801CTP-E**
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150	392 - 278 - 208	392 - 278 - 208
	High - Medium - Low	m^3/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540	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
	Power High - Medium - Low	dB(A)	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 1270 x 690	235 x 1270 x 690
	Weight	kg	23	23	23	29	29
Pipe Connection	Flare Connections (gas - liquid)	inch	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
	Sub Branch Line To Indoor (gas - liquid)	inch	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	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	10	10	10	10
	Max. Length Distributor To Furthest Indoor	m	10	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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM801ATP-E**	**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	-15 to 46/-15 to 15
Air Flow	High	m^3/h - l/s	2700 - 750	4080 - 1133	4080 - 1133	4200 - 1167	4200 - 1167
Sound	Pressure High Cooling/Heating	dB(A)	48/52	54/57	54/57	55/57	55/57
	Power High Cooling/Heating	dB(A)	65/69	70/74	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	890 x 900 x 320
	Weight	kg	44	68	69	68	69
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	5-30	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 - 1.3	R32 - 2.1	R32 - 2.1	R32 - 2.1	R32 - 2.1
	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	11.15	14.30	4.75	21.40	7.15
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	220-240/1/50-16	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16

INDOOR RETAIL PRICE	**€1,536**	**€1,676**	**€1,676**	**€1,984**	**€1,984**
OUTDOOR RETAIL PRICE	**€1,357**	**€1,785**	**€2,159**	**€1,881**	**€2,276**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€2,962**	**€3,530**	**€3,904**	**€3,934**	**€4,329**

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

TOSHIBA



Twin-Split Ceiling Indoor Unit (continued)

CODE			140	140	200	230
Performance						
Indoor Unit 1		**RAV-**	**RM801CTP-E**	**RM801CTP-E**	**RM1101CTP-E**	**RM1401CTP-E**
Indoor Unit 2		**RAV-**	**RM801CTP-E**	**RM801CTP-E**	**RM1101CTP-E**	**RM1401CTP-E**
Outdoor Unit		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	3.01/3.47	3.01/3.47	3.91/3.92	3.04/3.57
UK	Cooling Total/Sensible	kW	13.30/9.30	13.30/9.30	19.00/15.80	23.80/17.80
	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	4.65	4.65	6.17	8.97
	Pdesign	kW	14.00	14.00	20.00	23.50
	SEER/Energy Efficiency Class (or ηsc %)		5.90/233.0	5.90/233.0	5.67/223.8	5.16/203.4
	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	4.6-31.5
	Power Input	kW	4.61	4.61	5.71	7.56
	Pdesign	kW	12.00	12.00	20.00	22.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.61/181.4	4.61/181.4	3.79/146.6	3.65/143.0
	Seasonal Energy Consumption	kWh/a	2732	2732	-	-

Indoor Data		**RAV-**	**RM801CTP-E**	**RM801CTP-E**	**RM1101CTP-E**	**RM1401CTP-E**
Air Flow	High - Medium - Low	l/s	392 - 278 - 208	392 - 278 - 208	517 - 375 - 6	567 - 425 - 56
	High - Medium - Low	m^3/h	1410 - 1000 - 750	1410 - 1000 - 750	1860 - 1350 - 1020	2040 - 1530 - 1200
Sound	Pressure High - Medium - Low	dB(A)	41 - 36 - 29	41 - 36 - 29	44 - 38 - 32	46 - 41 - 35
	Power High - Medium - Low	dB(A)	56 - 51 - 44	56 - 51 - 44	59 - 53 - 47	61 - 56 - 50
Unit	Height x Width x Depth	mm	235 x 1270 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690
	Weight	kg	29	29	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
	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	VP26/20	VP26/20	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	3 core + earth	3 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	5-60	5-60
	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	35	35
Run Current	Maximum	A	22.48	7.49	9.90	14.60
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	**€1,984**	**€1,984**	**€2,164**	**€2,728**
OUTDOOR RETAIL PRICE	**€2,536**	**€2,818**	**€4,271**	**€4,278**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,589**	**€4,871**	**€6,504**	**€7,075**

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

DIGITAL INVERTER



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		**RAV-**	**RM301SDT-E**	**RM401SDT-E**	**RM561SDT-E**	**RM561SDT-E**
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162	217 - 188 - 162
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E
Outdoor Data		**RAV-**	**GM561ATP-E**	**GM801ATP-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
Air Flow	High	m^3/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

* Waiting for published data.

INDOOR RETAIL PRICE	**€1,392**	**€1,422**	**€1,450**	**€1,450**
OUTDOOR RETAIL PRICE	**€1,029**	**€1,357**	**€1,785**	**€2,159**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€2,490**	**€2,848**	**€3,304**	**€3,678**

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

TOSHIBA

DIGITAL INVERTER



Twin-Split Ducted Indoor Unit

CODE			95	95	121	121
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**
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	12.8	12.8
	EER/COP	W/W	3.18/3.75	3.18/3.75	2.74/3.61	2.74/3.61
UK	Cooling Total/Sensible	kW	9.10/7.37	9.10/7.37	11.15/8.90	11.15/8.90
	Heating	kW	8.01	8.01	9.30	9.30
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	2.99	2.99	4.67	4.42
	Pdesign	kW	9.50	9.50	12.00	12.00
	SEER/Energy Efficiency Class (or ηsc %)		5.28/A	5.28/A	5.36/211.4	5.36/211.4
	Seasonal Energy Consumption	kWh/a	630	630	707	707
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	3.60	3.60
	Pdesign	kW	7.60	7.60	8.00	8.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.22/A+	4.22/A+	4.21/165.4	4.21/165.4
	Seasonal Energy Consumption	kWh/a	2520	2520	2569	2569

Indoor Data		**RAV-**	**RM561BTP-E**	**RM561BTP-E**	**RM801BTP-E**	**RM801BTP-E**
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	222 - 175 - 133	333 - 258 - 200	333 - 258 - 200
	High - Medium - Low	m^3/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
	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	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		**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	m^3/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	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	14.50	4.85	21.40	7.15
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	220-240/1/50-20	380-415/3/50-10	220-240/1/50-32	380-415/3/50-16

INDOOR RETAIL PRICE	**€1,498**	**€1,498**	**€1,932**	**€1,932**
OUTDOOR RETAIL PRICE	**€1,785**	**€2,159**	**€1,881**	**€2,276**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,352**	**€3,726**	**€3,882**	**€4,277**

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

DIGITAL INVERTER



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-E**	**GM2801AT8-E**
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		**RAV-**	**RM801BTP-E**	**RM801BTP-E**	**RM1101BTP-E**	**RM1401BTP-E**
Air Flow	High - Medium - Low	l/s	333 - 258 - 200	333 - 258 - 200	583 - 48 - 139	583 - 48 - 139
	High - Medium - Low	m^3/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		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	5-60	5-60
	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	35	35
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	**€1,932**	**€1,932**	**€2,210**	**€2,468**
OUTDOOR RETAIL PRICE	**€2,536**	**€2,818**	**€4,271**	**€4,278**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,537**	**€4,819**	**€6,550**	**€6,815**

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

TOSHIBA



Twin-Split Floor-Mounted Cabinet Indoor Unit

CODE			100	100	125	125	200	230
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-E**	**GM2801AT8-E**
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	m^3/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			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-E**	**GM2801AT8-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/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m^3/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	5-60	5-60
	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	20	20	35	35
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	**€3,558**	**€3,558**	**€3,804**	**€3,804**	**€4,092**	**€4,282**
OUTDOOR RETAIL PRICE	**€1,785**	**€2,159**	**€1,881**	**€2,276**	**€4,271**	**€4,278**
SYSTEM RETAIL PRICE	**€5,343**	**€5,717**	**€5,685**	**€6,080**	**€8,363**	**€8,560**

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

DIGITAL INVERTER



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	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	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	m^3/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	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
	Branch Kit (Sold Separately)		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
	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	m^3/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	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	**€1,188**	**€1,188**	**€1,287**	**€1,287**
OUTDOOR RETAIL PRICE	**€1,785**	**€2,159**	**€1,881**	**€2,276**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,293**	**€3,667**	**€3,488**	**€3,883**

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

TOSHIBA



Triple-Split High-Wall Indoor Unit (continued)

CODE			140	140	200	230
Performance						
Indoor Unit 1		**RAV-**	**RM561KRTP-E**	**RM561KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**
Indoor Unit 2		**RAV-**	**RM561KRTP-E**	**RM561KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**
Indoor Unit 3		**RAV-**	**RM561KRTP-E**	**RM561KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**
Outdoor Unit		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	3.21/3.21	3.21/3.21	3.00/3.66	2.65/3.53
UK	Cooling Total/Sensible	kW	14.40/11.70	14.40/11.70	20.10/14.40	20.10/14.40
	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	4.98	4.98	6.67	9.22
	Pdesign	kW	14.0	14.0	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		5.10/201.0	5.10/201.0	5.58/220.2	5.30/209.0
	Seasonal Energy Consumption	kWh/a	-*	-*	-	-
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	4.98	4.98	6.12	7.65
	Pdesign	kW	12.0	12.0	20.0	22.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.00/157.0	4.00/157.0	3.76/147.4	3.63/142.2
	Seasonal Energy Consumption	kWh/a	-*	-*	-	-

Indoor Data		**RAV-**	**RM561KRTP-E**	**RM561KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**
Air Flow	High - Medium - Low	l/s	267 - 231 - 189	267 - 231 - 189	289 - 253 - 189	289 - 253 - 189
	High - Medium - Low	m^3/h	960 - 830 - 680	960 - 830 - 680	1040 - 910 - 680	1040 - 910 - 680
Sound	Pressure High - Medium - Low	dB(A)	42 - 39 - 36	42 - 39 - 36	45 - 41 - 35	45 - 41 - 35
	Power High - Medium - Low	dB(A)	57 - 54 - 51	57 - 54 - 51	60 - 56 - 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	320 x 1050 x 250
	Weight	kg	14	14	14	14
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 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-TA09NE	WH-TA09NE	WH-TA09NE	WH-TA09NE

Outdoor Data		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	5-60	5-60
	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	35	35
Run Current	Maximum	A	24.08	8.02	10.78	15.06
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

* Waiting for published data.

INDOOR RETAIL PRICE	**€1,587**	**€1,587**	**€1,710**	**€1,710**
OUTDOOR RETAIL PRICE	**€2,536**	**€2,818**	**€4,271**	**€4,278**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,443**	**€4,725**	**€6,301**	**€6,308**

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

DIGITAL INVERTER



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	14.0
	Heating Capacity	kW	11.2	11.2	12.8	12.8	16.0	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	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	14.40/10.80
	Heating	kW	7.30	7.30	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	3.00	3.00	4.57	4.57	4.96	4.96
	Pdesign	kW	9.50	9.50	12.00	12.00	14.00	14.00
	SEER/Energy Efficiency Class (or ηsc %)		5.50/A	5.50/A	-*	-*	5.10/201.0	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	3.0 - 18.0
	Power Input	kW	3.26	3.26	3.46	3.46	4.69	4.69
	Pdesign	kW	7.40	7.40	8.00	8.00	12.00	12.00
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.02/A+	4.02/A+	-*	-*	4.00/157.0	4.00/157.0
	Seasonal Energy Consumption	kWh/a	2616	2616	-*	-*	-*	-*

Indoor Data		**RAV-**	**RM301MUT-E**	**RM301MUT-E**	**RM401MUT-E**	**RM401MUT-E**	**RM561MUT-E**	**RM561MUT-E**
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	178 - 144 - 122	183 - 153 - 130	183 - 153 - 130	222 - 187 - 152	222 - 187 - 152
	High - Medium - Low	m^3/h	640 - 520 - 440	640 - 520 - 440	660 - 552 - 468	660 - 552 - 468	798 - 672 - 546	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	44 - 39 - 35
	Power High - Medium - Low	dB(A)	53 - 51 - 45	53 - 51 - 45	56 - 51 - 47	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	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	27 x 700 x 700	27 x 700 x 700
	Weight RBC-UM21PG(W)-E	kg	2.5	2.5	2.5	2.5	3	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	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 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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

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	m^3/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	15.44	5.15	20.75	6.90	23.98	7.99
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

* Waiting for published data.

INDOOR RETAIL PRICE	**€3,090**	**€3,090**	**€3,111**	**€3,111**	**€3,159**	**€3,159**
OUTDOOR RETAIL PRICE	**€1,785**	**€2,159**	**€1,881**	**€2,276**	**€2,536**	**€2,818**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€5,195**	**€5,569**	**€5,312**	**€5,707**	**€6,015**	**€6,297**

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

TOSHIBA

DIGITAL INVERTER



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-E**	**GM2801AT8-E**
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	m^3/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-UM31PGP(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-E**	**GM2801AT8-E**
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	5-60	5-60
	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	35	35
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	**€2,991**	**€2,991**	**€3,213**	**€3,213**
OUTDOOR RETAIL PRICE	**€2,536**	**€2,818**	**€4,271**	**€4,278**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€5,847**	**€6,129**	**€7,804**	**€7,811**

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

DIGITAL INVERTER



Triple-Split Ceiling Indoor Unit

CODE			121	121	140	140	200	230
Performance								
Indoor Unit 1		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**RM561CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**RM801CTP-E**
Indoor Unit 2		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**RM561CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**RM801CTP-E**
Indoor Unit 3		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**RM561CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**RM801CTP-E**
Outdoor Unit		**RAV-**	**GM1401ATP-E**	**GM1401AT8P-E**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**RM561CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**RM801CTP-E**
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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM1401ATP-E**	**GM1401AT8P-E**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-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/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m^3/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	5-60	5-60
	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	35	35
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	**€2,304**	**€2,304**	**€2,514**	**€2,514**	**€2,976**	**€2,976**
OUTDOOR RETAIL PRICE	**€1,881**	**€2,276**	**€2,536**	**€2,818**	**€4,271**	**€4,278**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,505**	**€4,900**	**€5,370**	**€5,652**	**€7,567**	**€7,574**

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

TOSHIBA

DIGITAL INVERTER



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 ηsc %)		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 ηsc(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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

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	m^3/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

* Waiting for published data.

INDOOR RETAIL PRICE	**€2,088**	**€2,088**	**€2,133**	**€2,133**	**€2,175**	**€2,175**
OUTDOOR RETAIL PRICE	**€1,785**	**€2,159**	**€1,881**	**€2,276**	**€2,536**	**€2,818**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,193**	**€4,567**	**€4,334**	**€4,729**	**€5,031**	**€5,313**

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

DIGITAL INVERTER



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-E**	**GM2801AT8-E**
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
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	14.0	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	-	-
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	12.0	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	-	-

Indoor Data		**RAV-**	**RM561BTP-E**	**RM561BTP-E**	**RM801BTP-E**	**RM801BTP-E**
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	222 - 175 - 133	333 - 258 - 200	333 - 258 - 200
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	5-60	5-60
	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	35	35
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	**€2,247**	**€2,247**	**€2,898**	**€2,898**
OUTDOOR RETAIL PRICE	**€2,536**	**€2,818**	**€4,271**	**€4,278**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€5,103**	**€5,385**	**€7,489**	**€7,496**

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

TOSHIBA

DIGITAL INVERTER



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-E**	**GM2801AT8-E**
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		**MMF-**	**RM801FT-ES**	**RM801FT-ES**
Air Flow	High - Medium - Low	l/s	258 - 214 - 178	258 - 214 - 178
	High - Medium - Low	m^3/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		3 core + earth	3 core + earth
Remote Controller			RBC-AMS55E-ES	RBC-AMS55E-ES

Outdoor Data		**RAV-**	**GM2241AT8-E**	**GM2801AT8-E**
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	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	5-60	5-60
	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	35	35
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

-* Wating for published data.

INDOOR RETAIL PRICE	**€5,706**	**€5,706**
OUTDOOR RETAIL PRICE	**€4,271**	**€4,278**
RBC-TRP100E	**€251**	**€251**
SYSTEM RETAIL PRICE	**€10,228**	**€10,235**

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

DIGITAL INVERTER



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-E**	**GM2801AT8-E**
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	14.0	20.0	23.5
	Heating Capacity	kW	13.0	13.0	16.0	16.0	22.4	27.0
	EER/COP	W/W	2.57/3.37	2.57/3.37	3.21/3.21	3.21/3.21	3.00/3.66	2.55/3.53
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	19.20/15.60
	Heating	kW	9.3	9.3	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	4.71	4.71	4.98	4.98	6.67	9.22
	Pdesign	kW	6.70	6.70	14.0	14.0	20.0	23.5
	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	5.22/205.8
	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	4.6-31.5
	Power Input	kW	3.86	3.86	4.98	4.98	6.12	7.65
	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	4.00/157.0	4.00/157.0	3.77/147.8	3.63/142.2
	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	m^3/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-E**	**GM2801AT8-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/-20 to 15	-15 to 46/-20 to 15
Air Flow	High	m^3/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	5-60	5-60
	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	35
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

* Waiting for published data.

INDOOR RETAIL PRICE	**€1,584**	**€1,584**	**€1,716**	**€1,716**	**€2,116**	**€2,280**
OUTDOOR RETAIL PRICE	**€1,881**	**€2,276**	**€2,536**	**€2,818**	**€4,271**	**€4,278**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,534**	**€3,929**	**€4,321**	**€4,603**	**€6,456**	**€6,627**

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

TOSHIBA

DIGITAL INVERTER



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-E**
Nominal	Cooling Capacity	kW	12.1	12.1	12.1	12.1	20.0
	Heating Capacity	kW	12.8	12.8	16.0	16.0	22.4
	EER/COP	W/W	2.8/3.76	2.8/3.76	2.82/3.41	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	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	4.57	4.57	4.96	4.96	6.35
	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	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	3.0 - 18.0	4.6-25.0
	Power Input	kW	3.46	3.46	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	4.03/156.2
	Seasonal Energy Consumption	kWh/a	-*	-*	-*	-*	-

Indoor Data		**RAV-**	**RM301MUT-E**	**RM301MUT-E**	**RM401MUT-E**	**RM401MUT-E**	**RM561MUT-E**
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	m^3/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	15 x 620 x 620	15 x 620 x 620	15 x 620 x 620	15 x 620 x 620	12 x 620 x 620
	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
	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	10
	Drain Pipe Connection OD/ID	mm	VP26/20	VP26/20	VP26/20	VP26/20	VP25
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM1401ATP-E**	**GM1401AT8P-E**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-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/-20 to 15
Air Flow	High	m^3/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	5-60
	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	20.75	6.9	23.98	7.99	10.26
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

* Waiting for published data.

INDOOR RETAIL PRICE	**€4,120**	**€4,120**	**€4,148**	**€4,148**	**€4,212**
OUTDOOR RETAIL PRICE	**€1,881**	**€2,276**	**€2,536**	**€2,818**	**€4,271**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€6,070**	**€6,465**	**€6,753**	**€7,035**	**€8,552**

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

DIGITAL INVERTER



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-E**	**GM2801AT8-E**
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	m^3/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-UM31PGP(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	5/8 - 3/8	1/2 - 1/4
	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-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM2241AT8-E**	**GM2801AT8-E**
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	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	5-60	5-60
	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	35
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	**€3,988**	**€4,284**
OUTDOOR RETAIL PRICE	**€4,271**	**€4,278**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**
SYSTEM RETAIL PRICE	**€8,328**	**€8,631**

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

TOSHIBA

DIGITAL INVERTER



Quad-Split Ceiling Indoor Unit

CODE			140	140	200	230
Performance						
Indoor Unit 1		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**RM561CTP-E**	**RM801CTP-E**
Indoor Unit 2		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**RM561CTP-E**	**RM801CTP-E**
Indoor Unit 3		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**RM561CTP-E**	**RM801CTP-E**
Indoor Unit 4		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**RM561CTP-E**	**RM801CTP-E**
Outdoor Unit		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	3.01/3.47	3.01/3.47	3.24/3.92	2.62/3.57
UK	Cooling Total/Sensible	kW	13.30/9.30	13.30/9.30	19.20/15.60	19.20/15.60
	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	4.65	4.65	6.17	8.97
	Pdesign	kW	14.00	14.00	20.0	23.5
	SEER/Energy Efficiency Class (or ηsc %)		5.90/233.0	5.90/233.0	5.68/224.2	5.06/199.4
	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	4.6-31.5
	Power Input	kW	4.61	4.61	5.71	7.56
	Pdesign	kW	12.00	12.00	20.0	22.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.10/161.0	4.10/161.0	3.80/149.0	3.64/142.6
	Seasonal Energy Consumption	kWh/a	2732	2732	-	-

Indoor Data		**RAV-**	**RM401CTP-E**	**RM401CTP-E**	**SM568CTP-E**	**SM808CTP-E**
Air Flow	High - Medium - Low	l/s	250 - 200 - 150	250 - 200 - 150	250 - 200 - 150	392 - 278 - 208
	High - Medium - Low	m^3/h	900 - 720 - 540	900 - 720 - 540	900 - 720 - 540	1410 - 1002 - 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	1-1/8 - 1/2	1-1/8 - 1/2
	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	5/8 - 3/8
	Max. Subtractive Separation Between Indoors	m	5	5	6	6
	Max. Length Main Distributor To Furthest Indoor	m	15	15	20	20
	Max. Distance From Second Distributor To Indoors	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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	5-60	5-60
	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 Second Dist. Liquid Side	g/m	20	20	35	35
	Additional Charge Sub Liquid Side	g/m	0	0	20	35
Run Current	Maximum	A	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
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	**€3,072**	**€3,072**	**€3,352**	**€3,968**
OUTDOOR RETAIL PRICE	**€2,536**	**€2,818**	**€4,271**	**€4,278**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€5,677**	**€5,959**	**€7,692**	**€8,315**

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

DIGITAL INVERTER



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-E**
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	m^3/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	1-1/8 - 1/2
	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	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	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
	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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM1401ATP-E**	**GM1401AT8P-E**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-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/-20 to 15
Air Flow	High	m^3/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	5-60
	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

* Waiting for published data.

INDOOR RETAIL PRICE	**€2,784**	**€2,784**	**€2,844**	**€2,844**	**€2,900**
OUTDOOR RETAIL PRICE	**€1,881**	**€2,276**	**€2,536**	**€2,818**	**€4,271**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,734**	**€5,129**	**€5,449**	**€5,731**	**€7,240**

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

DIGITAL INVERTER



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-E**	**GM2801AT8-E**
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		**RAV-**	**RM561BTP-E**	**RM801BTP-E**
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	333 - 258 - 200
	High - Medium - Low	m^3/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	1-1/8 - 1/2	1-1/8 - 1/2
	Sub Branch Line To Second Dist. (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	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-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GM2241AT8-E**	**GM2801AT8-E**
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	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	5-60	5-60
	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	35
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	**€2,996**	**€3,864**
OUTDOOR RETAIL PRICE	**€4,271**	**€4,278**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**
SYSTEM RETAIL PRICE	**€7,336**	**€8,211**

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

DIGITAL INVERTER



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-E**	**GM2801AT8-E**
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		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		3.60/141.0	3.57/139.8
	Seasonal Energy Consumption	kWh/a	-	-

Indoor Data		**MMF-**	**RM561FT-ES**	**RM801FT-ES**
Air Flow	High - Medium - Low	l/s	228 - 194 - 167	258 - 214 - 178
	High - Medium - Low	m^3/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
	Drain Pipe Connection	mm	VP26/20	VP26/20
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth
Remote Controller			RBC-AMS55E-ES	RBC-AMS55E-ES

Outdoor Data		**RAV-**	**GM2241AT8-E**	**GM2801AT8-E**
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	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	5-60	5-60
	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	35
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

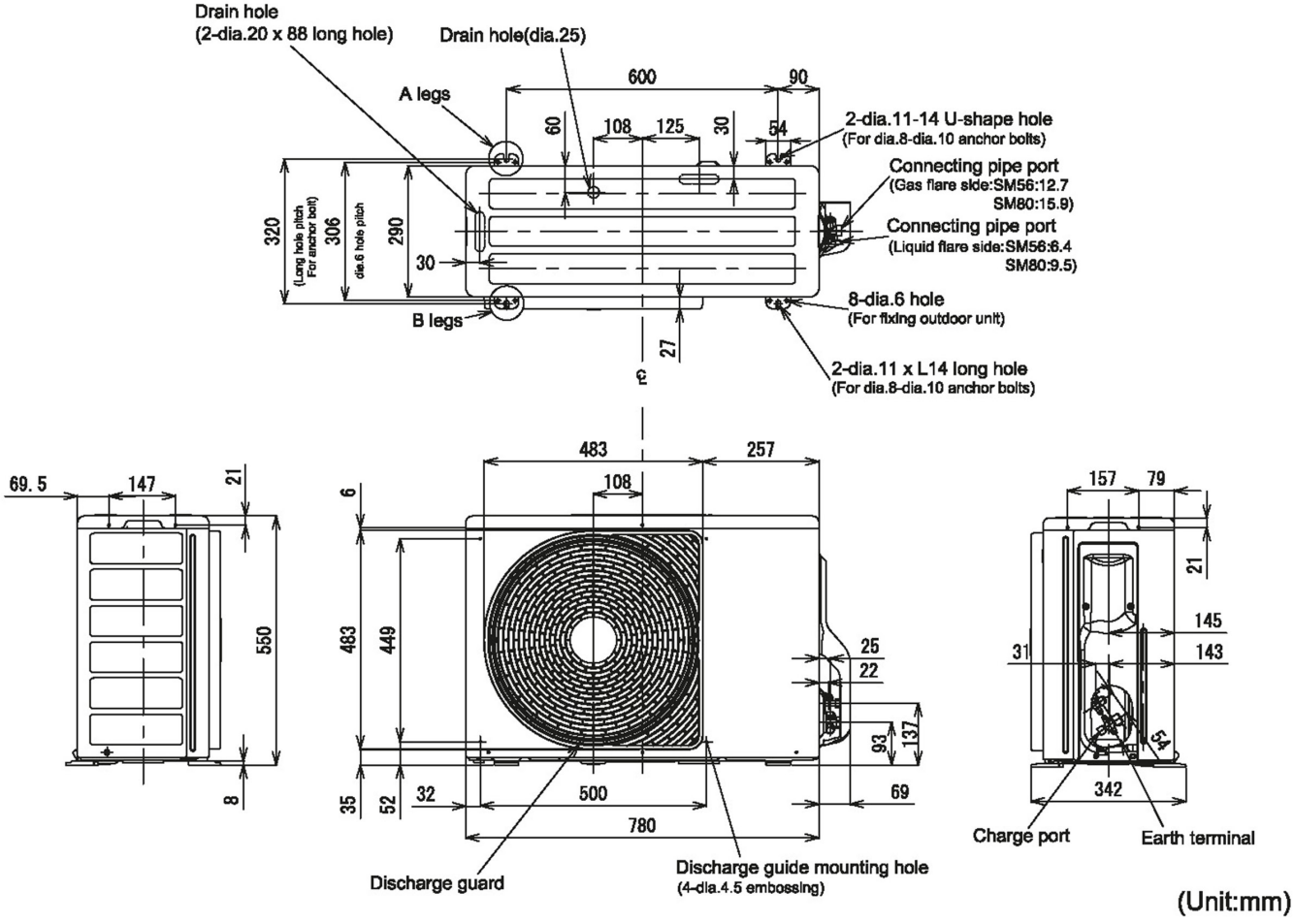
INDOOR RETAIL PRICE	**€7,116**	**€7,608**
OUTDOOR RETAIL PRICE	**€4,271**	**€4,278**
SYSTEM RETAIL PRICE	**€11,387**	**€11,886**

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

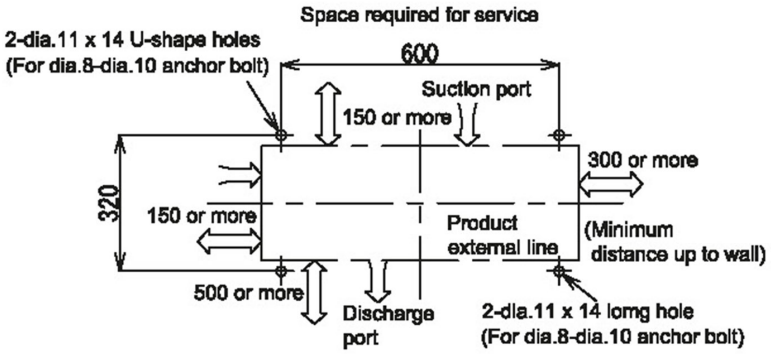
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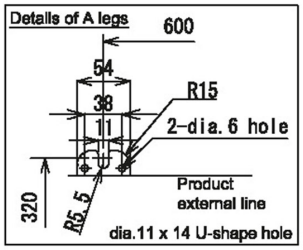


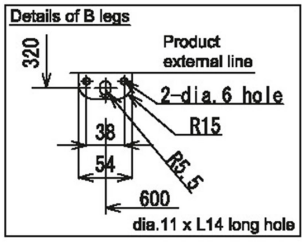
Dimensions - RAV-GM301ATP-E, RAV-GM401ATP-E - R32
RAV-GM561ATP-E, RAV-GM801ATP-E - R32



(Unit:mm)

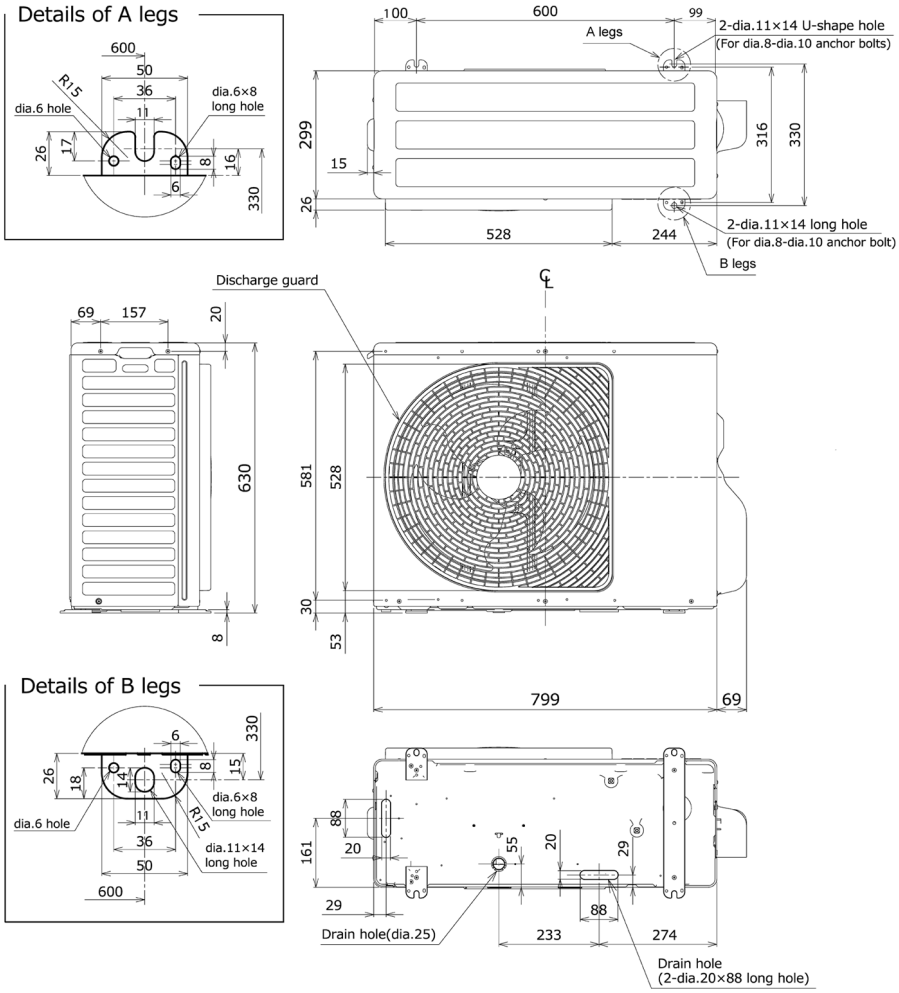




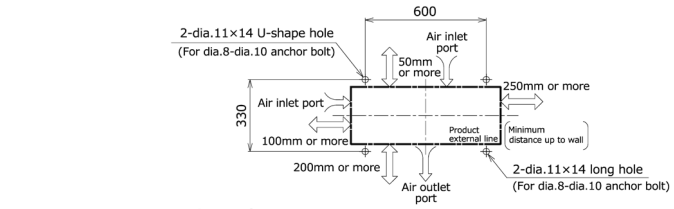


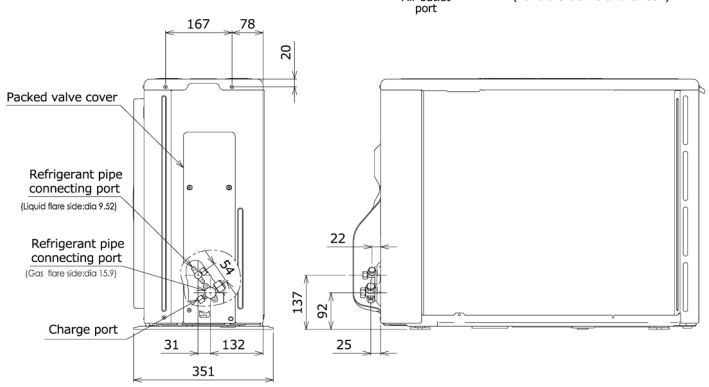


Dimensions - RAV-GM901ATP-E - R32



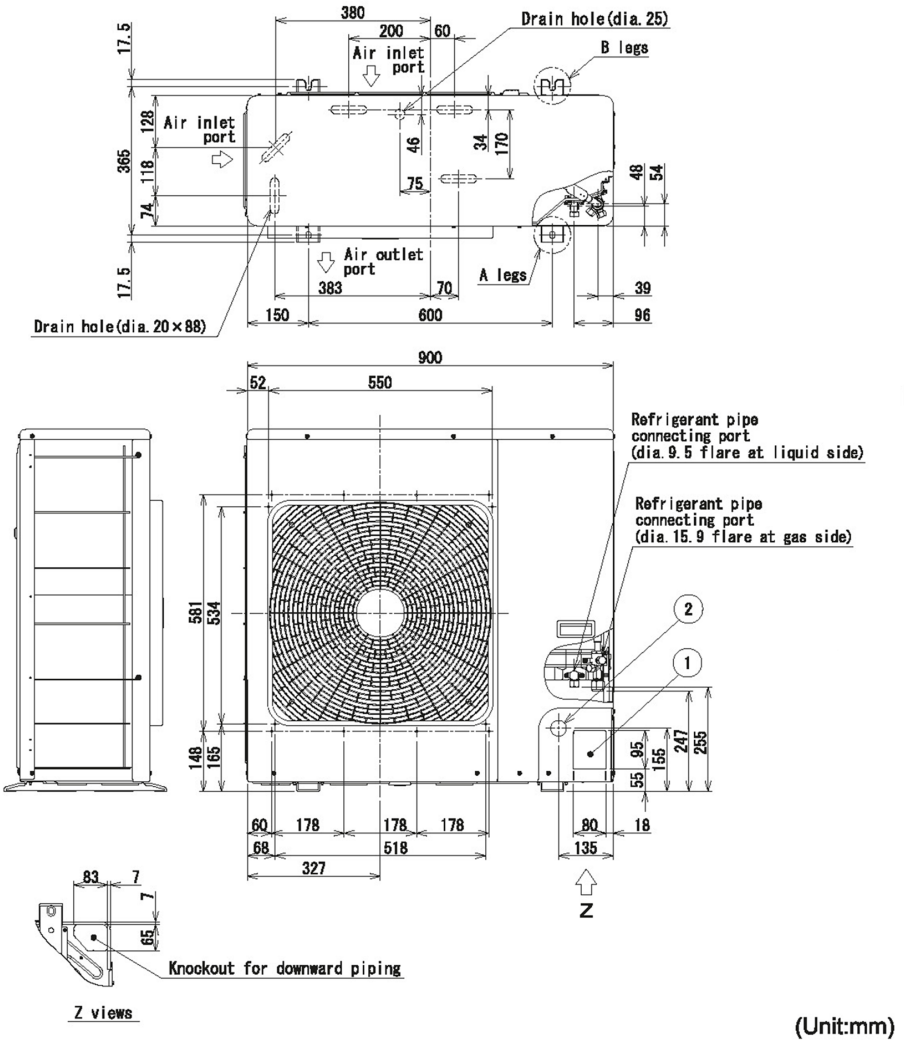
Space required for service





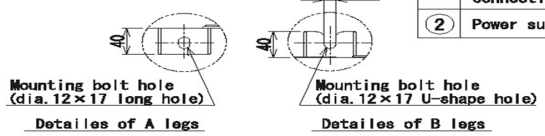


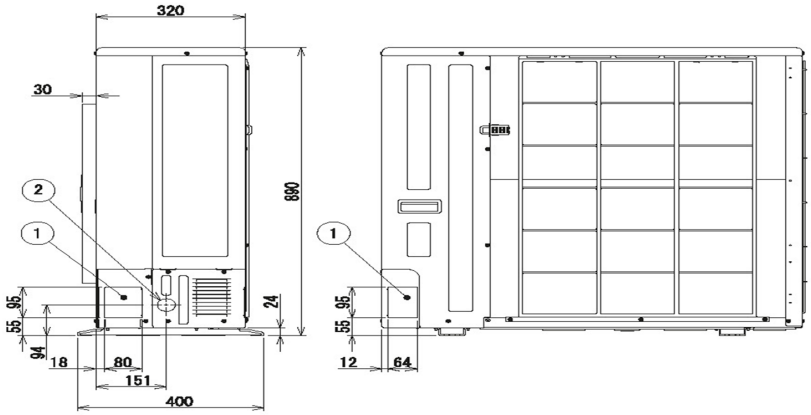
Dimensions - RAV-GM1101ATP-E, RAV-GM1401ATP-E - R32



(Unit:mm)

	Name	Note
①	Refrigerant piping hole Indoor/Outdoor Unit connecting wire inlet hole	——
②	Power supply inlet hole	dia. 38 Knockout hole

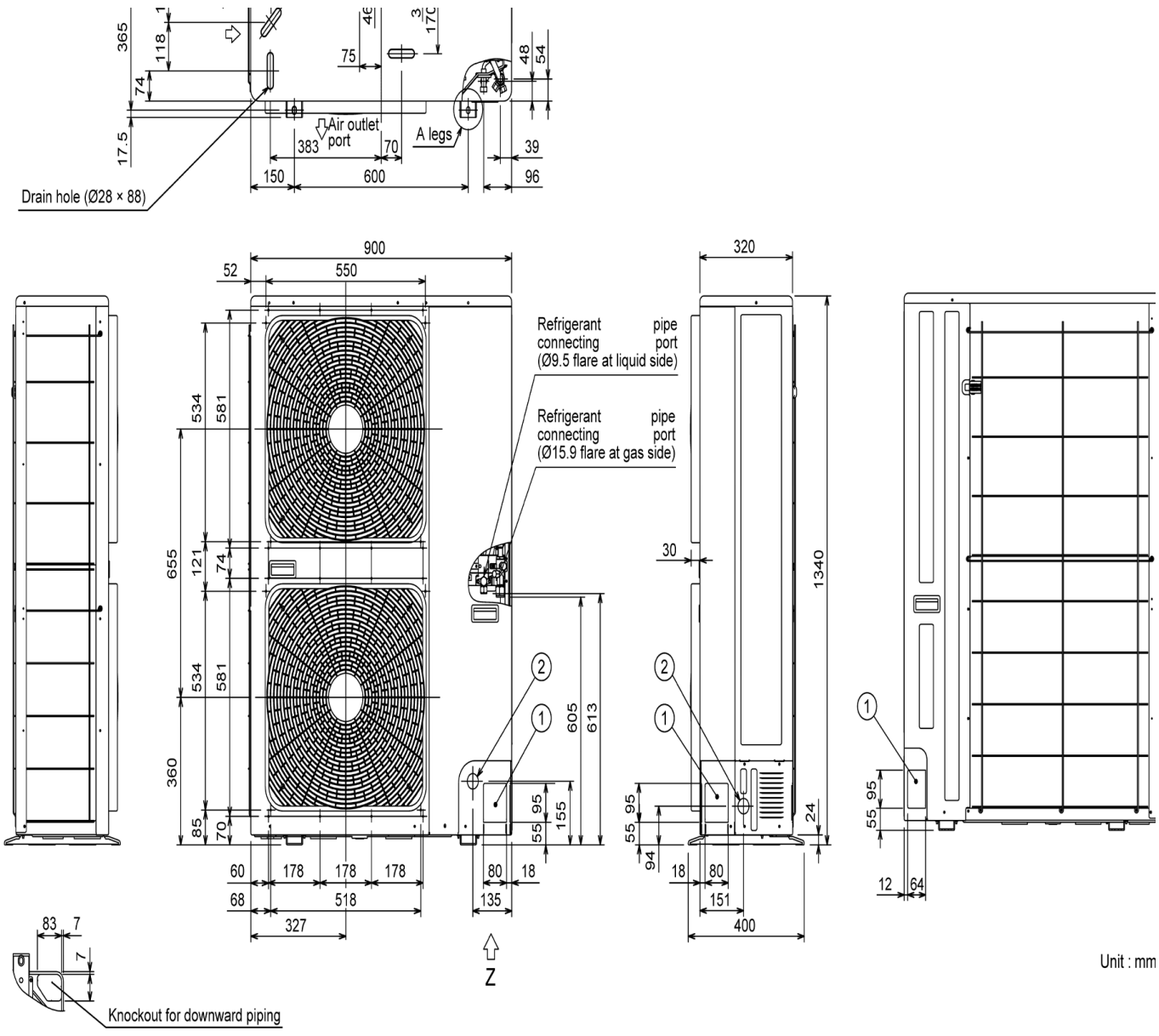


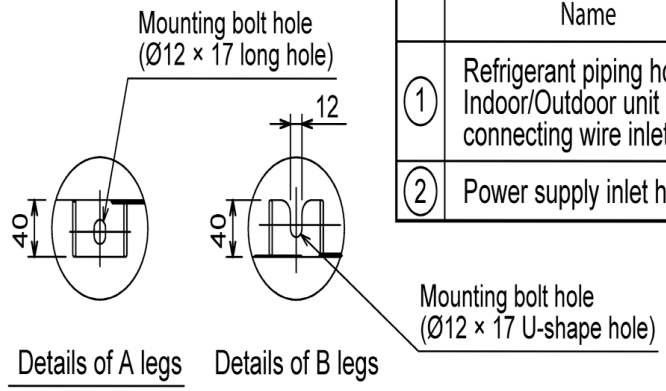


DIGITAL INVERTER



Dimensions - RAV-GM1601AT8P-E - R32



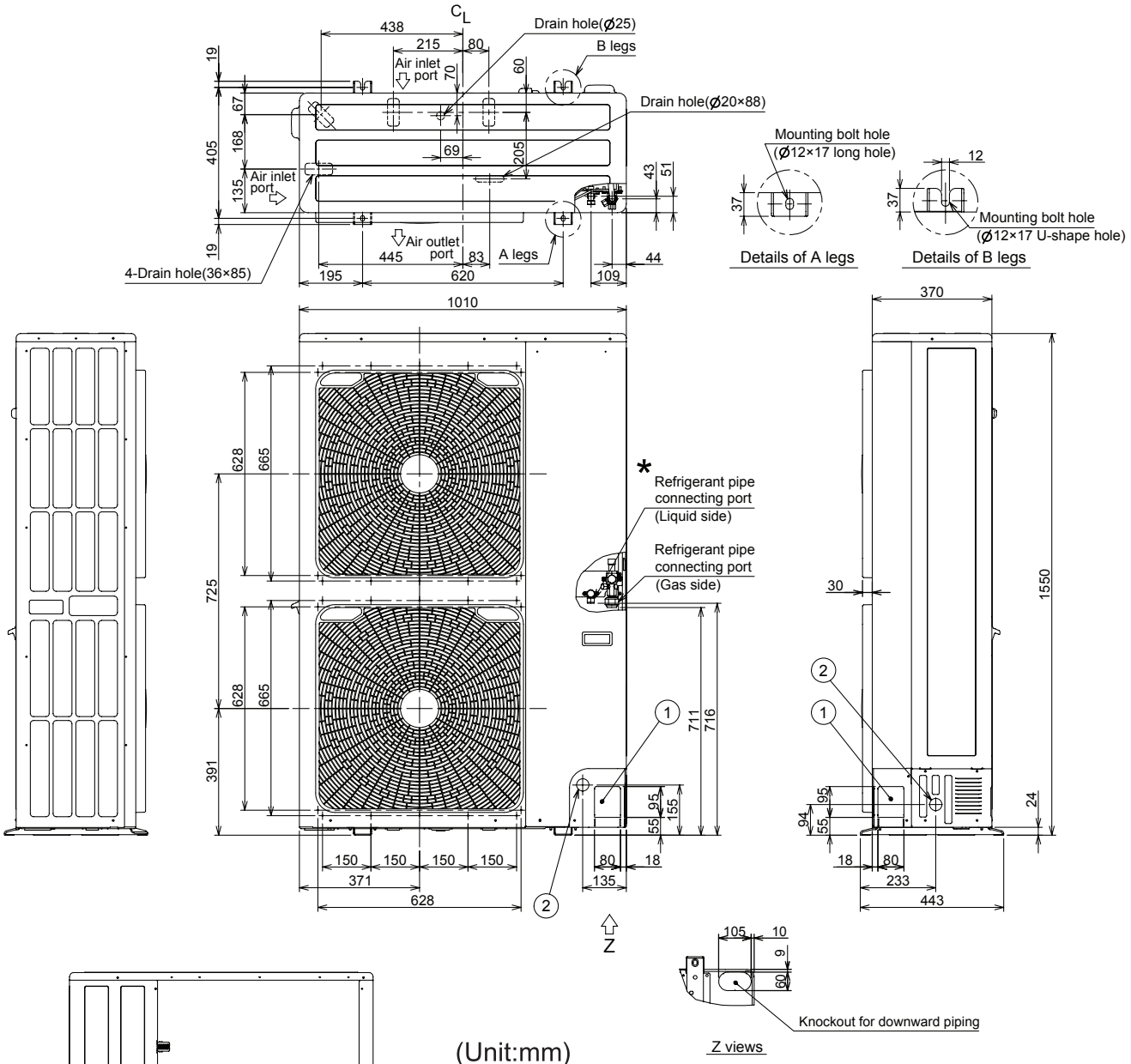


	Name	Note
①	Refrigerant piping hole Indoor/Outdoor unit connecting wire inlet hole	—
②	Power supply inlet hole	Ø38 Kockout hole

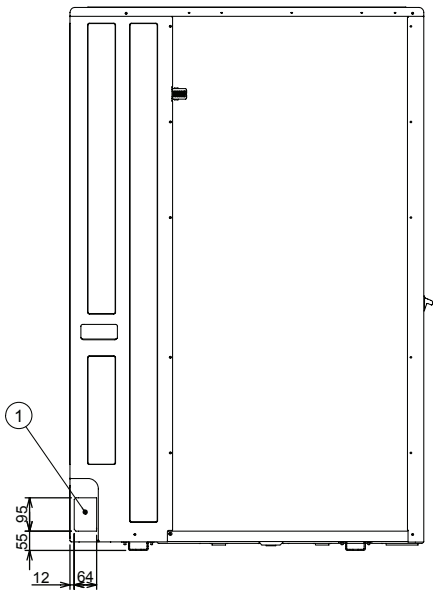
TOSHIBA



Dimensions - RAV-GM2241AT8-E, RAV-GM2801AT8-E - R32



(Unit:mm)



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

*

Diameter of pipe connecting port		Diameter of connecting pipe	
Liquid side	Gas side	Liquid side	Gas side
Ø12.7	Ø19.1	Ø12.7	Ø28.6

The diameter of ball valve connecting port on the outdoor unit is Ø19.1, and therefore please use the accessory joint for installation.

SUPER DIGITAL INVERTER



High-Wall Indoor Unit

CODE			50	71	71	100
Performance						
Indoor Unit		**RAV-**	**RM561KRTP-E**	**RM801KRTP-E**	**GM1101KRTP-E**	**GM1101KRTP-E**
Outdoor Unit		**RAV-**	**GP561ATP-E**	**GP801AT-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	-*	-*	3.61/3.58	3.5/3.45
UK	Cooling Total/Sensible	kW	-*	-*	9.50/6.70	9.50/6.70
	Heating	kW	3.55	5.07	8.00	8.00
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	-*	-*	2.77	2.86
	Pdesign	kW	5.00	7.10	10.0	10.0
	SEER/Energy Efficiency Class		7.59/A++	7.34/A++	7.20/A++	6.35/A++
	Seasonal Energy Consumption	kWh/a	230	338	486	551
Heating EN14825	Range Min. - Max.	kW	-*	-*	2.6 - 13.0	2.4 - 13.0
	Power Input	kW	-*	-*	3.13	3.25
	Pdesign	kW	3.80	5.10	9.20	10.8
	SCOP/Energy Efficiency Class		4.17/A+	4.13/A+	4.41/A+	4.21/A+
	Seasonal Energy Consumption	kWh/a	1274	1725	2920	3591

Indoor Data		**RAV-**	**RM561KRTP-E**	**RM801KRTP-E**	**GM1101KRTP-E**	**GM1101KRTP-E**
Air Flow	High - Medium - Low	l/s	267 - 230 - 188	288 - 253 - 272	447 - 375 - 328	447 - 375 - 328
	High - Medium - Low	m^3/h	960 - 828 - 678	1038 - 912 - 978	1610 - 1350 - 1180	1610 - 1350 - 1180
Sound	Pressure High - Medium - Low	dB(A)	42 - 39 - 36	45 - 41 - 35	49 - 48 - 41	49 - 48 - 41
	Power High - Medium - Low	dB(A)	57 - 54 - 51	60 - 56 - 51	64 - 60 - 56	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	348 x 1200 x 280
	Weight	kg	14	14	19	19
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	VP16/14	VP16/14	VP16/14	VP16/14
Remote Controller			WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)	WH-TA09NE (Infra-Red)

Outdoor Data		**RAV-**	**GP561ATP-E**	**GP801AT-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	m^3/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	kg/m	1.35/20	1.9/30	3.1/30	2.6/30
	Additional Charge Liquid Side	g/m	20	35	35	35
Run Current	Maximum	A	6.13	10.88	11.8	5.48
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	**€529**	**€570**	**€685**	**€685**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
SYSTEM RETAIL PRICE (inc. Infra-red controller)	**€2,003**	**€2,706**	**€3,345**	**€3,507**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

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

TOSHIBA

SUPER DIGITAL INVERTER



Smart Cassette Indoor Unit

CODE			50	71	100	125
Performance						
Indoor Unit		**RAV-**	**GM561UT-E**	**GM801UT-E**	**GM1101UT-E**	**GM1401UT-E**
Outdoor Unit		**RAV-**	**GP561ATP-E**	**GP801AT-E**	**GP1101AT-E**	**GP1401AT-E**
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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP561ATP-E**	**GP801AT-E**	**GP1101AT-E**	**GP1401AT-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 52/-27 to 15
Air Flow	High	m^3/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	**€1,139**	**€1,356**	**€1,387**	**€1,418**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,923**
REMOTE CONTROLLER RBC-AMS55E-ES	**€129**	**€129**	**€129**	**€129**
SYSTEM RETAIL PRICE	**€2,742**	**€3,621**	**€4,176**	**€4,470**

Accessories

RBC-AX32UM(W)-E	Remote Controller	Wireless infra-red controller and receiver	€125
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82
TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	€90

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

TOSHIBA

SUPER DIGITAL INVERTER



Compact Cassette Indoor Unit

CODE			50
Performance			
Indoor Unit		**RAV-**	**RM561MUT-E**
Outdoor Unit		**RAV-**	**GP561ATP-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		**RAV-**	**RM561MUT-E**
Air Flow	High - Medium - Low	l/s	222 - 187 - 152
	High - Medium - Low	m^3/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-AMT32E

Outdoor Data		**RAV-**	**GP561ATP-E**
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15
Air Flow	High	m^3/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 R32	Base Charge/Chargeless Length	kg/m	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	**€1,053**
OUTDOOR RETAIL PRICE	**€1,474**
REMOTE CONTROLLER RBC-AMT32E	**€69**
SYSTEM RETAIL PRICE	**€2,596**

Accessories

RBC-AX32UM(W)-E	Remote Controller	Wireless infra-red controller and receiver	€125
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82
TCB-SIR41UM-E	Occupancy Sensor	Movement sensor control with 10 m diameter detection	€90

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

TOSHIBA

SUPER DIGITAL INVERTER



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-**	**GP561ATP-E**	**GP801AT-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+++	7.1/A++
	Seasonal Energy Consumption	kWh/a	230	282	405	492
Heating EN14825	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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP561ATP-E**	**GP801AT-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	m^3/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	**€997**	**€1,071**	**€1,167**	**€1,167**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€2,540**	**€3,276**	**€3,896**	**€4,058**

Accessories

RBC-AX32U(W)-E	Remote Controller	Wireless infra-red controller and receiver	£168
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

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

TOSHIBA

SUPER DIGITAL INVERTER



4-Way Cassette Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		**RAV-**	**RM1401UTP-E**	**RM1401UTP-E**	**RM1601UTP-E**
Outdoor Unit		**RAV-**	**GP1401AT-E**	**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
	Seasonal Energy Consumption	kWh/a	920	1069	1249
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	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		**RAV-**	**RM1401UTP-E**	**RM1401UTP-E**	**RM1601UTP-E**
Air Flow	High - Medium - Low	l/s	583 - 400 - 342	583 - 400 - 342	592 - 417 - 350
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1401AT-E**	**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	m^3/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	**€1,194**	**€1,194**	**€1,277**
OUTDOOR RETAIL PRICE	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,186**	**€4,210**	**€4,482**

Accessories

RBC-AX32U(W)-E	Remote Controller	Wireless infra-red controller and receiver	£168
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

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

TOSHIBA

SUPER DIGITAL INVERTER



Ceiling Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit		**RAV-**	**RM561CTP-E**	**RM801CTP-E**	**RM1101CTP-E**	**RM1101CTP-E**
Outdoor Unit		**RAV-**	**GP561ATP-E**	**GP801AT-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 (or ηsc %)		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 (or ηsc(A) %)		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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP561ATP-E**	**GP801AT-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	m^3/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	**€838**	**€992**	**€1,082**	**€1,082**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€2,381**	**€3,197**	**€3,811**	**€3,973**

Accessories

RBC-AX33CE	Remote Controller	Wireless infra-red controller and receiver	€212
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

Ceiling installation

Auto-diagnosis

Chargeless

Self-cleaning

Single-split

Low ambient cooling to -15°C DB

Automatic restart

Drain connection both sides

Wired controller

SUPER DIGITAL INVERTER



Ceiling Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		**RAV-**	**RM1401CTP-E**	**RM1401CTP-E**	**RM1601CTP-E**
Outdoor Unit		**RAV-**	**GP1401AT-E**	**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
	Seasonal Energy Consumption	kWh/a	989	1190	1400
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	8.00	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		**RAV-**	**RM1401CTP-E**	**RM1401CTP-E**	**RM1601CTP-E**
Air Flow	High - Medium - Low	l/s	567 - 425 - 333	567 - 425 - 333	567 - 458 - 350
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1401AT-E**	**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	m^3/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	**€1,364**	**€1,364**	**€1,389**
OUTDOOR RETAIL PRICE	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,356**	**€4,380**	**€4,594**

Accessories

RBC-AX33CE	Remote Controller	Wireless infra-red controller and receiver	€212
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

Ceiling installation

Auto-diagnosis

Chargeless

Self-cleaning

Single-split

Low ambient cooling to -15°C DB

Automatic restart

Drain connection both sides

Wired controller

TOSHIBA

SUPER DIGITAL INVERTER



Ducted Indoor Unit

CODE			50	71	100	100
Performance						
Indoor Unit		**RAV-**	**RM561BTP-E**	**RM801BTP-E**	**RM1101BTP-E**	**RM1101BTP-E**
Outdoor Unit		**RAV-**	**GP561ATP-E**	**GP801AT-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 (or ηsc %)		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 (or ηsc(A) %)		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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP561ATP-E**	**GP801AT-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	m^3/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	**€749**	**€966**	**€1,105**	**€1,105**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€2,292**	**€3,171**	**€3,834**	**€3,996**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	€274
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€543
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	€133
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	€156
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E	€199

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

SUPER DIGITAL INVERTER



Ducted Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		**RAV-**	**RM1401BTP-E**	**RM1401BTP-E**	**RM1601BTP-E**
Outdoor Unit		**RAV-**	**GP1401AT-E**	**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	3.28/3.83	3.12/3.5
UK	Cooling Total/Sensible	kW	11.9/9.0	11.90/9.00	13.30/9.70
	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	3.57	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	m^3/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
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1401AT-E**	**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	m^3/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	**€1,234**	**€1,234**	**€1,346**
OUTDOOR RETAIL PRICE	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,226**	**€4,250**	**€4,551**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	€274
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€543
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1	€133
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1	€156
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E	€199

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

TOSHIBA

SUPER DIGITAL INVERTER



Slim Ducted Indoor Unit

CODE			53
Performance			
Indoor Unit		**RAV-**	**RM561SDT-E**
Outdoor Unit		**RAV-**	**GP561ATP-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		**RAV-**	**RM561SDT-E**
Air Flow	High - Medium - Low	l/s	217 - 188 - 162
	High - Medium - Low	m^3/h	217 - 188 - 162
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-AMT32E

Outdoor Data		**RAV-**	**GP561ATP-E**
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15
Air Flow	High	m^3/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	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	**€725**
OUTDOOR RETAIL PRICE	**€1,474**
REMOTE CONTROLLER RBC-AMT32E	**€69**
SYSTEM RETAIL PRICE	**€2,268**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer	€335
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models	€274
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€82

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

TOSHIBA

SUPER DIGITAL INVERTER



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-**	**GP561ATP-E**	**GP801AT-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+
	Seasonal Energy Consumption	kWh/a	304	398	597	597
Heating EN14825	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-**	**GP561ATP-E**	**GP801AT-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	**€1,779**	**€1,902**	**€2,046**	**€2,046**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
SYSTEM RETAIL PRICE	**€3,253**	**€4,038**	**€4,706**	**€4,868**

Accessories

RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	€12

TOSHIBA

SUPER DIGITAL INVERTER



Floor-Mounted Cabinet Indoor Unit (continued)

CODE			125	125	140
Performance					
Indoor Unit		**RAV-**	**RM1401FT-ES**	**RM1401FT-ES**	**RM1601FT-ES**
Outdoor Unit		**RAV-**	**GP1401AT-E**	**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
	Seasonal Energy Consumption	kWh/a	1229	1326	1513
Heating EN14825	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		**RAV-**	**RM1401FT-ES**	**RM1401FT-ES**	**RM1601FT-ES**
Air Flow	High - Medium - Low	l/s	489 - 411 - 375	489 - 411 - 375	489 - 411 - 375
	High - Medium - Low	m3/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		**RAV-**	**GP1401AT-E**	**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	3-75	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			**€2,141**	**€2,141**	**€2,241**
OUTDOOR RETAIL PRICE			**€2,923**	**€2,947**	**€3,136**
SYSTEM RETAIL PRICE			**€5,064**	**€5,088**	**€5,377**

Accessories

RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€64
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	€12

SUPER DIGITAL INVERTER



Twin-Split High-Wall Indoor Unit

CODE			50	69	100	100
Performance						
Indoor Unit 1		**RAV-**	**RM301KRTP-E**	**RM401KRTP-E**	**RM561KRTP-E**	**RM561KRTP-E**
Indoor Unit 2		**RAV-**	**RM301KRTP-E**	**RM401KRTP-E**	**RM561KRTP-E**	**RM561KRTP-E**
Outdoor Unit		**RAV-**	**GP561ATP-E**	**GP801AT-E**	**GP1101AT-E**	**GP1101AT8-E**
Nominal	Cooling Capacity	kW	5.0	6.9	10.0	10.0
	Heating Capacity	kW	5.3	7.7	11.2	11.2
	EER/COP	W/W	3.01/3.42	2.75/2.95	4.10/4.10	3.83/4.21
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	2.6 - 12.0
	Power Input	kW	1.66	2.44	2.44	2.61
	Pdesign	kW	5.00	6.70	10.00	10.0
	SEER/Energy Efficiency Class		-*	-*	8.15/A++	6.35/a++
	Seasonal Energy Consumption	kWh/a	-*	-*	429	551
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	2.6 - 13.0	2.4 - 14.0
	Power Input	kW	1.55	2.61	2.73	2.66
	Pdesign	kW	4.40	6.30	9.20	10.8
	SCOP/Energy Efficiency Class		-*	-*	4.05/A+	4.14/A+
	Seasonal Energy Consumption	kWh/a	-*	-*	3179	3647

Indoor Data		**RAV-**	**RM301KRTP-E**	**RM401KRTP-E**	**RM561KRTP-E**	**RM561KRTP-E**
Air Flow	High - Medium - Low	l/s	158 - 128 - 83	192 - 145 - 83	267 - 230 - 188	267 - 8 - 189
	High - Medium - Low	m^3/h	570 - 462 - 300	690 - 522 - 300	960 - 828 - 678	960 - 830 - 680
Sound	Pressure High - Medium - Low	dB(A)	40 - 34 - 29	45 - 40 - 30	42 - 39 - 36	42 - 39 - 35
	Power High - Medium - Low	dB(A)	56 - 52 - 44	60 - 55 - 45	57 - 54 - 51	57 - 54 - 50
Unit	Height x Width x Depth	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 228	320 x 1050 x 250
	Weight	kg	10	10	12	14
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	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-TA09NE	WH-TA09NE	WH-TA09NE	WH-TA09NE

Outdoor Data		**RAV-**	**GP561ATP-E**	**GP801AT-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	m^3/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	7.78	12.23	15.14	5.48
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

* Waiting for published data.

INDOOR RETAIL PRICE	**€792**	**€858**	**€1,058**	**€1,058**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€2,335**	**€3,063**	**€3,787**	**€3,949**

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

TOSHIBA

SUPER DIGITAL INVERTER



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-E**	**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		**RAV-**	**RM801KRTP-E**	**RM801KRTP-E**	**RM801KRTP-E**
Air Flow	High - Medium - Low	l/s	283 - 208 - 183	289 - 253 - 189	289 - 253 - 189
	High - Medium - Low	m^3/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		**RAV-**	**GP1401AT-E**	**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	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	3-50	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	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

* Waiting for published data.

INDOOR RETAIL PRICE	**€1,140**	**€1,140**	**€1,140**
OUTDOOR RETAIL PRICE	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,132**	**€4,156**	**€4,345**

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

SUPER DIGITAL INVERTER



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-E**
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 ηsc %)		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 ηsc(A) %)		5.00/A++	4.97/195.8
	Seasonal Energy Consumption	kWh/a	2573	2702

Indoor Data		**RAV-**	**GM561UT-E**	**GM801UT-E**
Air Flow	High - Medium - Low	l/s	292 - 250 - 208	533 - 36 - 225
	High - Medium - Low	m^3/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-AMS55E	RBC-AMS55E

Outdoor Data		**RAV-**	**GP1101AT-E**	**GP1401AT-E**
Operating Range	Cooling/Heating	°C	-15 to 52/-27 to 15	-15 to 52/-27 to 15
Air Flow	High	m^3/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	20
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	**€2,278**	**€2,712**
OUTDOOR RETAIL PRICE	**€2,660**	**€2,923**
REMOTE CONTROLLER RBC-AMS55E	**€129**	**€129**
SYSTEM RETAIL PRICE	**€5,067**	**€5,764**

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

TOSHIBA

SUPER DIGITAL INVERTER



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-**	**GP561ATP-E**	**GP801AT-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		**RAV-**	**RM301MUT-E**	**RM401MUT-E**	**RM561MUT-E**	**RM561MUT-E**
Air Flow	High - Medium - Low	l/s	178 - 144 - 122	183 - 153 - 130	222 - 187 - 152	222 - 17 - 152
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP561ATP-E**	**GP801AT-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	m^3/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	7.68	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	**€2,060**	**€2,074**	**€2,106**	**€2,106**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,603**	**€4,279**	**€4,835**	**€4,997**

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

SUPER DIGITAL INVERTER



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-E**	**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
	Seasonal Energy Consumption	kWh/a	597	395	783	1069	1249
Heating EN14825	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		**RAV-**	**RM561UTP-E**	**RM561UTP-E**	**RM801UTP-E**	**RM801UTP-E**	**RM801UTP-E**
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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**	**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	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	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	**€1,994**	**€1,994**	**€2,142**	**€2,142**	**€2,142**
OUTDOOR RETAIL PRICE	**€2,660**	**€2,822**	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,723**	**€4,885**	**€5,134**	**€5,158**	**€5,347**

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

TOSHIBA

SUPER DIGITAL INVERTER



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-E**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**	**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
Cooling EN14825	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
	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
	Seasonal Energy Consumption	kWh/a	429	604	535	660	1190	1400
Heating EN14825	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		**RAV-**	**RM401CTP-E**	**RM561CTP-E**	**RM561CTP-E**	**RM801CTP-E**	**RM801CTP-E**	**RM801CTP-E**
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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP801AT-E**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**	**GP1401AT8-E**	**GP1601AT8-E**
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	m^3/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	20	20	20
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	**€1,536**	**€1,676**	**€1,676**	**€1,984**	**€1,984**	**€1,984**
OUTDOOR RETAIL PRICE	**€2,136**	**€2,660**	**€2,822**	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€3,741**	**€4,405**	**€4,567**	**€4,976**	**€5,000**	**€5,189**

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

SUPER DIGITAL INVERTER



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-**	**GP561ATP-E**	**GP801AT-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		**RAV-**	**RM301SDT-E**	**RM401SDT-E**	**RM561SDT-E**	**RM561SDT-E**
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162	217 - 22 - 162
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP561ATP-E**	**GP801AT-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	m^3/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	**€1,392**	**€1,422**	**€1,450**	**€1,450**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€2,935**	**€3,627**	**€4,179**	**€4,341**

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

TOSHIBA

SUPER DIGITAL INVERTER



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-E**
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		**RAV-**	**RM561BTP-E**	**RM561BTP-E**	**RM801BTP-E**
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	222 - 17 - 150	333 - 258 - 200
	High - Medium - Low	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**
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	m^3/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	20
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	**€1,498**	**€1,498**	**€1,932**
OUTDOOR RETAIL PRICE	**€2,660**	**€2,822**	**€2,923**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,227**	**€4,389**	**€4,924**

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

SUPER DIGITAL INVERTER



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 ηsc %)		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 ηsc(A) %)		3.96/155.4	3.94/154.6
	Seasonal Energy Consumption	kWh/a	4176	4271

Indoor Data		**RAV-**	**RM801BTP-E**	**RM801BTP-E**
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-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1401AT8-E**	**GP1601AT8-E**
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	20	20
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	**€1,932**	**€1,932**
OUTDOOR RETAIL PRICE	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,948**	**€5,137**

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

SUPER DIGITAL INVERTER



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**	**RM801FT-ES**
Indoor Unit 2		**RAV-**	**RM561FT-ES**	**RM561FT-ES**	**RM801FT-ES**	**RM801FT-ES**	**RM801FT-ES**
Outdoor Unit		**RAV-**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**	**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	4.07/4.04	4.07/4.04	3.46/3.67	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	13.40/9.20
	Heating	kW	7.31	7.31	9.14	9.14	10.45
Cooling EN14825	Range Min. - Max.	kW	2.6 - 12.0	2.6 - 12.0	2.6 - 14.0	2.6 - 14.0	2.6 - 16.0
	Power Input	kW	2.46	2.46	3.61	3.61	4.39
	Pdesign	kW	10	10.0	12.5	12.5	14.0
	SEER/Energy Efficiency Class (or ηsc %)		5.88/A+	5.88/A+	5.65/223.0	5.65/223.0	5.55/219.0
	Seasonal Energy Consumption	kWh/a	595	595	1229	1326	1513
Heating EN14825	Range Min. - Max.	kW	2.4 - 14.0	2.4 - 14.0	2.4 - 18.0	2.4 - 18.0	2.4 - 19.0
	Power Input	kW	3.09	3.09	3.81	3.81	4.83
	Pdesign	kW	10.8	10.8	14.0	14.0	16.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.01/A+	4.01/A+	4.00/157.0	4.00/157.0	3.96/155.4
	Seasonal Energy Consumption	kWh/a	3767	3767	3086	4130	4238

Indoor Data		**RAV-**	**RM561FT-ES**	**RM561FT-ES**	**RM801FT-ES**	**RM801FT-ES**	**RM801FT-ES**
Air Flow	High - Medium - Low	l/s	228 - 194 - 167	228 - 194 - 167	258 - 214 - 178	258 - 214 - 178	258 - 214 - 178
	High - Medium - Low	m3/h	820 - 700 - 600	820 - 700 - 600	930 - 770 - 640	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	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	1750 x 600 x 210
	Weight	kg	44	44	45	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	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 Upper - Lower	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-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES	RBC-AMS55E-ES

Outdoor Data		**RAV-**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**	**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	3-75	3-50	3-75	3-75
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge	m	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	35	20	35	20	20
Run Current	Maximum	Amps	13.21	5.80	18.80	6.65	8.15
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	**€3,558**	**€3,558**	**€3,804**	**€3,804**	**€3,804**
OUTDOOR RETAIL PRICE	**€2,660**	**€2,822**	**€2,923**	**€2,947**	**€3,136**
SYSTEM RETAIL PRICE	**€6,218**	**€6,380**	**€6,727**	**€6,751**	**€6,940**

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

SUPER DIGITAL INVERTER



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-E**	**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		**RAV-**	**RM301KRTP-E**	**RM301KRTP-E**	**RM401KRTP-E**	**RM401KRTP-E**	**RM561KRTP-E**
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	m^3/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		**RAV-**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**	**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	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	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

* Waiting for published data.

INDOOR RETAIL PRICE	**€1,188**	**€1,188**	**€1,287**	**€1,287**	**€1,587**
OUTDOOR RETAIL PRICE	**€2,660**	**€2,822**	**€2,923**	**€2,947**	**€3,136**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,168**	**€4,330**	**€4,530**	**€4,554**	**€5,043**

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

TOSHIBA

SUPER DIGITAL INVERTER



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-E**	**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
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	2.39	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 ηsc %)		7.70/A++	6.16/A++	-*	7.06/279.4	6.09/240.6
	Seasonal Energy Consumption	kWh/a	597	568	-*	-	-
Heating EN14825	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 ηsc(A) %)		4.40/A+	3.93/A	-*	4.36/171.4	4.13/162.2
	Seasonal Energy Consumption	kWh/a	2616	3667	-*	-	-

Indoor Data		**RAV-**	**RM301MUT-E**	**RM301MUT-E**	**RM401MUT-E**	**RM401MUT-E**	**RM561MUT-E**
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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**	**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	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

* Waiting for published data.

INDOOR RETAIL PRICE	**€3,090**	**€3,090**	**€3,111**	**€3,111**	**€3,159**
OUTDOOR RETAIL PRICE	**€2,660**	**€2,822**	**€2,923**	**€2,947**	**€3,136**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€6,070**	**€6,232**	**€6,354**	**€6,378**	**€6,615**

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

SUPER DIGITAL INVERTER



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	m^3/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-AMT32E

Outdoor Data		**RAV-**	**GP1601AT8-E**
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15
Air Flow	High	m^3/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	**€2,991**
OUTDOOR RETAIL PRICE	**€3,136**
RBC-TRP100E	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**
SYSTEM RETAIL PRICE	**€6,447**

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

TOSHIBA

SUPER DIGITAL INVERTER



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-E**	**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	1400
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	4003

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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1401AT-E**	**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	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	3-50	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

* Waiting for published data.

INDOOR RETAIL PRICE	**€2,304**	**€2,304**	**€2,514**
OUTDOOR RETAIL PRICE	**€2,923**	**€2,947**	**€3,136**
RBC-TRP100E	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€5,547**	**€5,571**	**€5,970**

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

SUPER DIGITAL INVERTER



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-E**	**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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1101AT-E**	**GP1101AT8-E**	**GP1401AT-E**	**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	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	5.23	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

* Waiting for published data.

INDOOR RETAIL PRICE	**€2,088**	**€2,088**	**€2,133**	**€2,133**	**€2,175**
OUTDOOR RETAIL PRICE	**€2,660**	**€2,822**	**€2,923**	**€2,947**	**€3,136**
RBC-TRP100E	**€251**	**€251**	**€251**	**€251**	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€5,068**	**€5,230**	**€5,376**	**€5,400**	**€5,631**

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

TOSHIBA

SUPER DIGITAL INVERTER



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	1566
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		**RAV-**	**RM561BTP-E**
Air Flow	High - Medium - Low	l/s	222 - 183 - 150
	High - Medium - Low	m^3/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-AMT32E

Outdoor Data		**RAV-**	**GP1601AT8-E**
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15
Air Flow	High	m^3/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	**€2,247**
OUTDOOR RETAIL PRICE	**€3,136**
RBC-TRP100E	**€251**
REMOTE CONTROLLER RBC-AMT32E	**€69**
SYSTEM RETAIL PRICE	**€5,703**

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

SUPER DIGITAL INVERTER



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	1513
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	4238
Indoor Data		**MMF-**	**RM561FT-ES**
Air Flow	High - Medium - Low	l/s	228 - 194 - 167
	High - Medium - Low	m^3/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)	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	mm	VP26/20
Power Cable	Indoor to Indoor		2 core + earth
Remote Controller			RBC-AMS55E-ES
Outdoor Data		**RAV-**	**GP1601AT8-E**
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15
Air Flow	High	m^3/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	7.60
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	**€5,337**
OUTDOOR RETAIL PRICE	**€3,136**
RBC-TRP100E	**€251**
SYSTEM RETAIL PRICE	**€8,724**

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

SUPER DIGITAL INVERTER



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-E**	**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
	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	11.80	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		**RAV-**	**RM301KRTP-E**	**RM301KRTP-E**	**RM401KRTP-E**
Air Flow	High - Medium - Low	l/s	158 - 128 - 83	158 - 128 - 83	192 - 145 - 83
	High - Medium - Low	m^3/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
	Drain Pipe Connection ID/OD	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		**RAV-**	**GP1401AT-E**	**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	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	3-50	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	35	35
	Additional Charge Second Dist. Liquid Side	g/m	20	40	40
	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

* Waiting for published data.

INDOOR RETAIL PRICE	**€1,584**	**€1,584**	**€1,716**
OUTDOOR RETAIL PRICE	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€4,576**	**€4,600**	**€4,921**

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

SUPER DIGITAL INVERTER



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-E**	**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	m^3/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-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1401AT-E**	**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	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	3-50	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

* Waiting for published data.

INDOOR RETAIL PRICE	**€4,120**	**€4,120**	**€4,148**
OUTDOOR RETAIL PRICE	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€7,112**	**€7,136**	**€7,353**

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

TOSHIBA

SUPER DIGITAL INVERTER



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
	Seasonal Energy Consumption	kWh/a	1400
Heating EN14825	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	m^3/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-AMT32E

Outdoor Data		**RAV-**	**GP1601AT8-E**
Operating Range	Cooling/Heating	°C	-15 to 46/-20 to 15
Air Flow	High	m^3/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	**€3,072**
OUTDOOR RETAIL PRICE	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**
SYSTEM RETAIL PRICE	**€6,277**

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

SUPER DIGITAL INVERTER



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-E**	**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		**RAV-**	**RM301SDT-E**	**RM301SDT-E**	**RM401SDT-E**
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	183 - 156 - 133	192 - 167 - 145
	High - Medium - Low	m^3/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
	Lift Pump Drain Height from Unit Base	mm	< 850	-	< 850
Power Cable	Indoor to Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller			RBC-AMT32E	RBC-AMT32E	RBC-AMT32E

Outdoor Data		**RAV-**	**GP1401AT-E**	**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	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	3-50	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

* Waiting for published data.

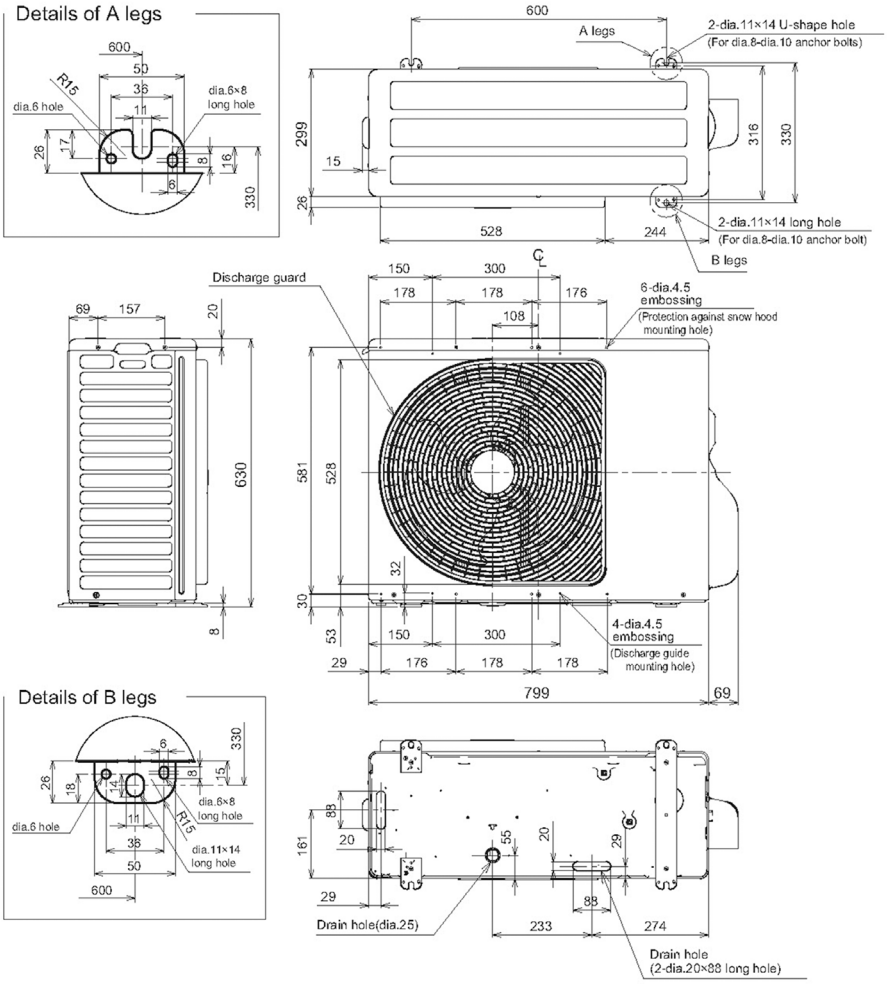
INDOOR RETAIL PRICE	**€2,784**	**€2,784**	**€2,844**
OUTDOOR RETAIL PRICE	**€2,923**	**€2,947**	**€3,136**
REMOTE CONTROLLER RBC-AMT32E	**€69**	**€69**	**€69**
SYSTEM RETAIL PRICE	**€5,776**	**€5,800**	**€6,049**

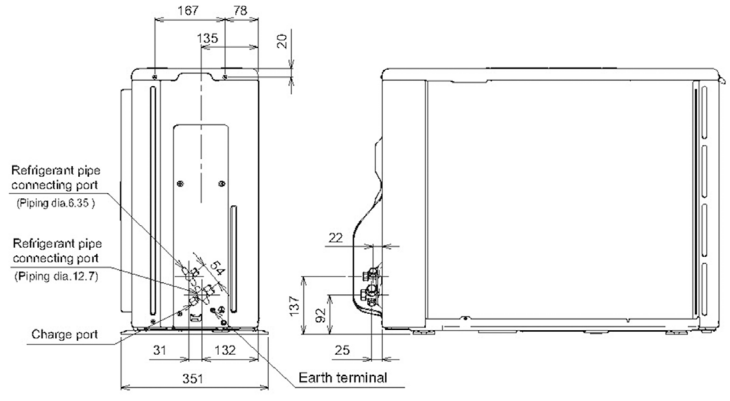
For Features and Accessories, please refer to the individual single-split system units.

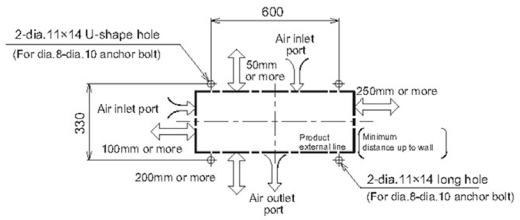
TOSHIBA



Dimensions - RAV-GP561ATP-E - R32



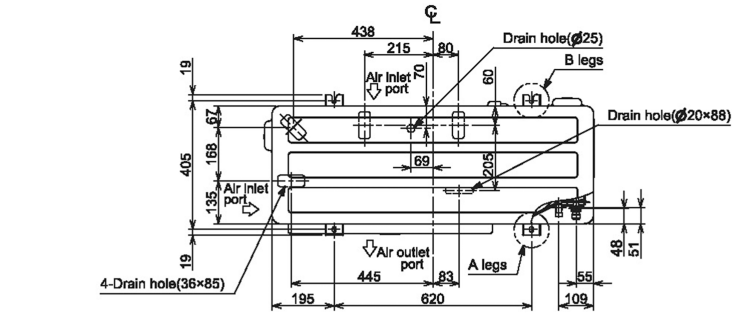


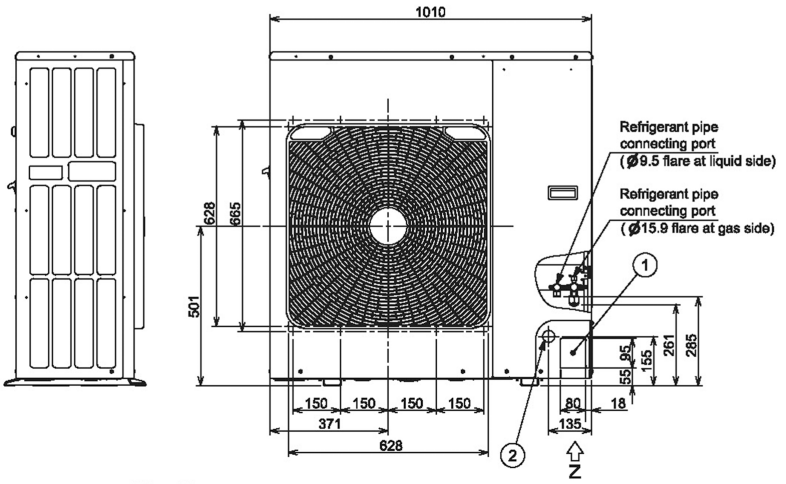


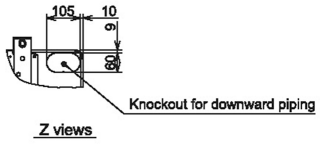
(Unit:mm)



Dimensions - RAV-GP801AT-E - R32

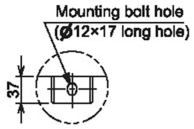




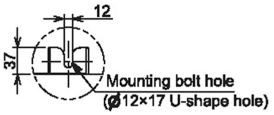


Z views

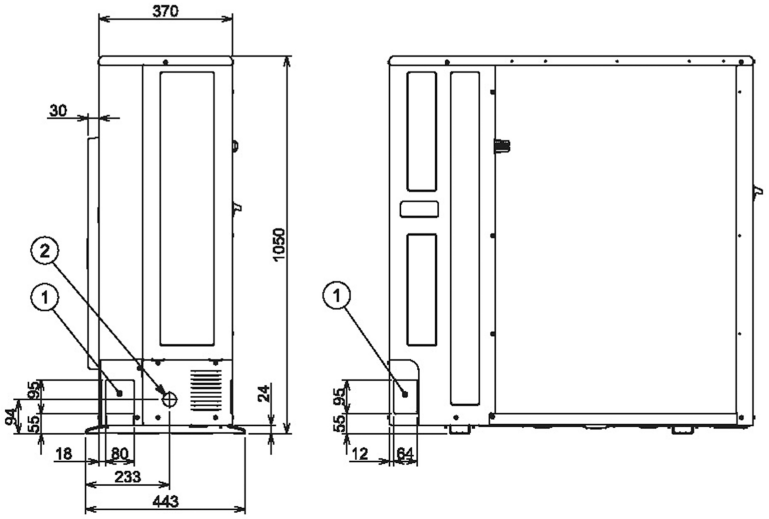
	Name	Note
①	Refrigerant piping hole Indoor/Outdoor Unit connecting wire inlet hole	—
②	Power supply inlet hole	Ø38 Knockout hole



Details of A legs



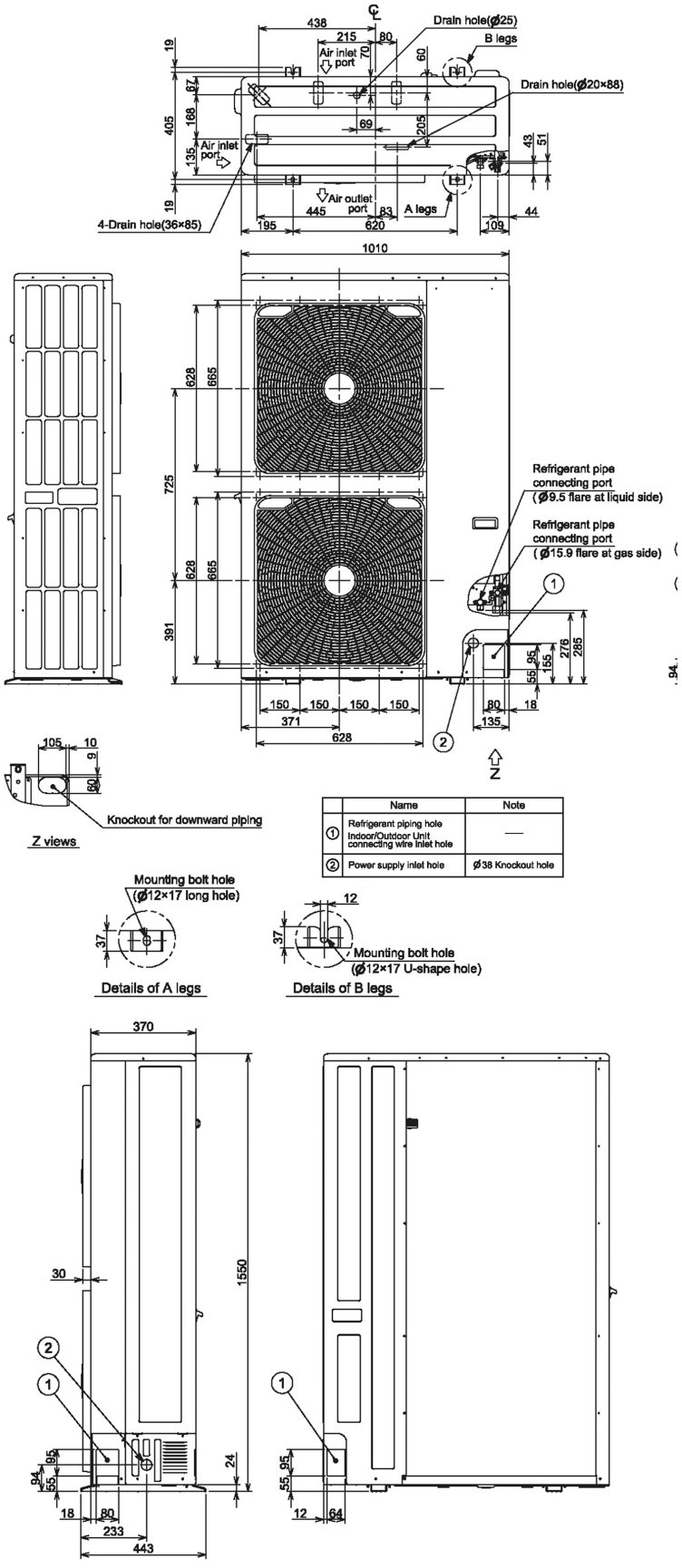
Details of B legs



(Unit: mm)



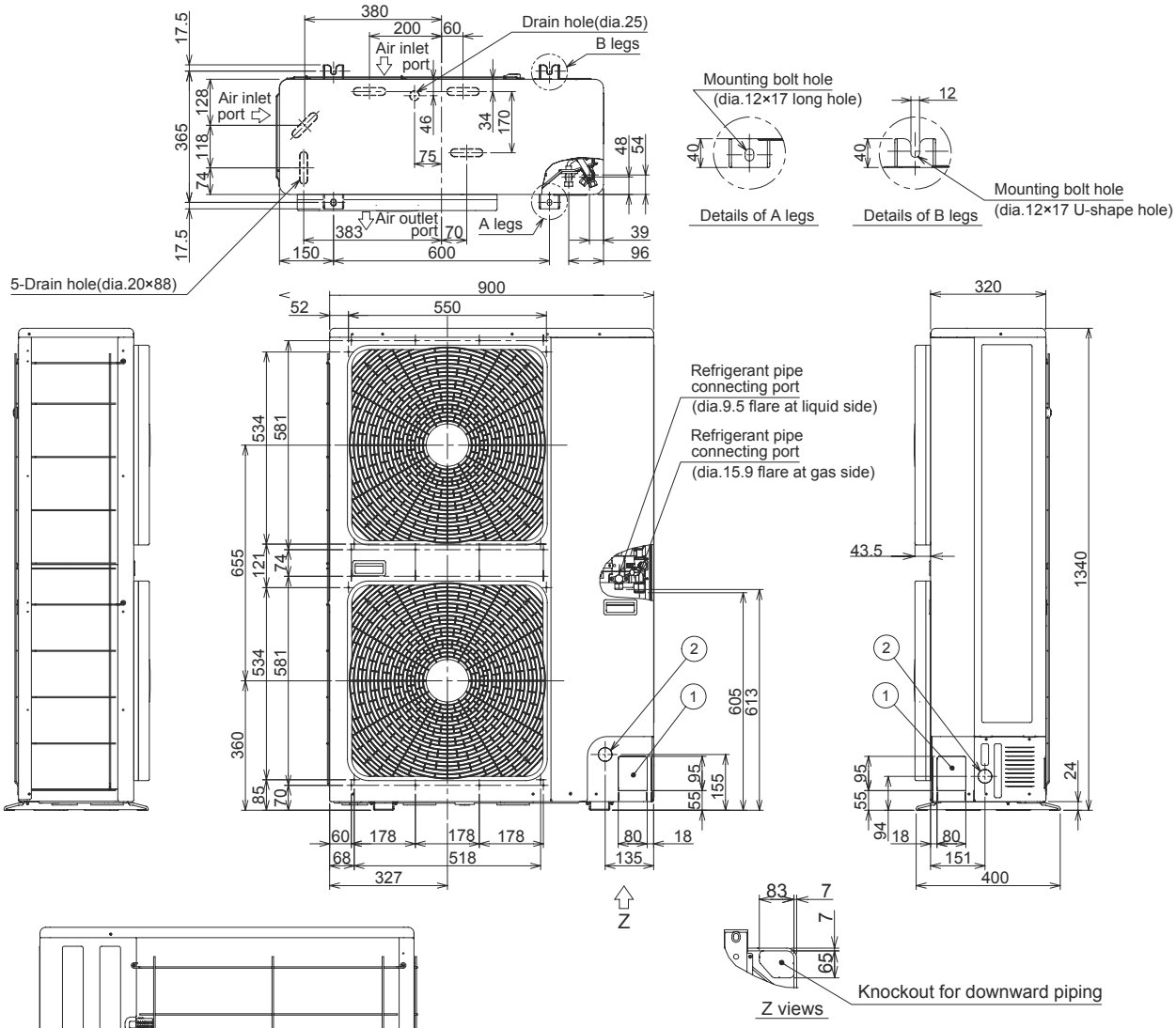
Dimensions - RAV-GP1101AT-E, RAV-GP1401AT-E - R32

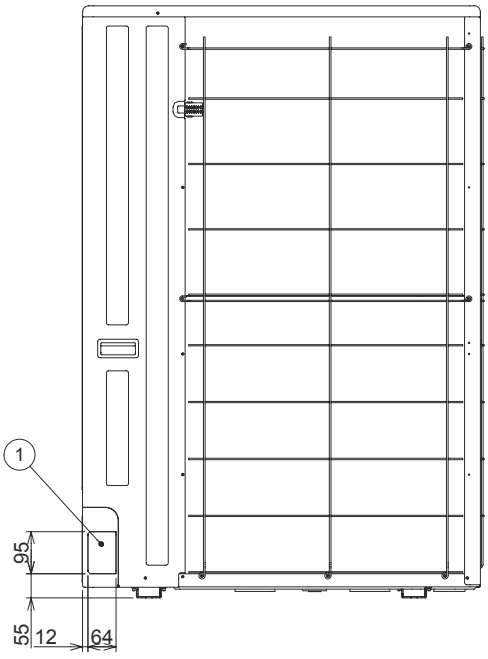


SUPER DIGITAL INVERTER



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





(Unit:mm)

	Name	Note
①	Refrigerant piping hole Indoor/Outdoor Unit connecting wire inlet hole	———
②	Power supply inlet hole	dia.38 Knockout hole

TOSHIBA

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	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*							75	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	***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-e, SHRM-e

CREATING BENEFITS AROUND COMFORT

Benefits for the consultant

Absolute customisation …
A wide range of products ensures that the customers' requirements are fully addressed

Absolute validation …
Toshiba's VRF units are EUROVENT-certified and adhere to all current European legislations

Absolute control …
Fully-integrated controls network, allowing unlimited access to the system controls and its operation

Absolute flexibility …
A high degree of system flexibility, aided by a fully-flexible piping specification and an extremely compact modular design

Simplified design …
TOSHIBA DESIGN AIRS software makes the selection of a system's components simple

Benefits for the user

Infinite comfort …
Achieved by fully-controllable room temperature, a perfect alternative to traditional heating and cooling systems

Infinite efficiency …
Low operating costs, reduced installation costs and very high levels of efficiency via optimal load adjustment

Infinite integration …
Cooling, heating and fresh air ventilation, all perfectly and conveniently attuned to one another within a single system – and so easy to use

Infinite reliability …
Hassle-free operation based upon decades of experience and intensive testing program for all systems

Infinite transparency …
Clearly defined billing so you can quickly review energy costs and consumption

Benefits for the installer

So simple …
One supplier – one point of contact for a total solution: cooling, heating, hot water, ventilation and controls

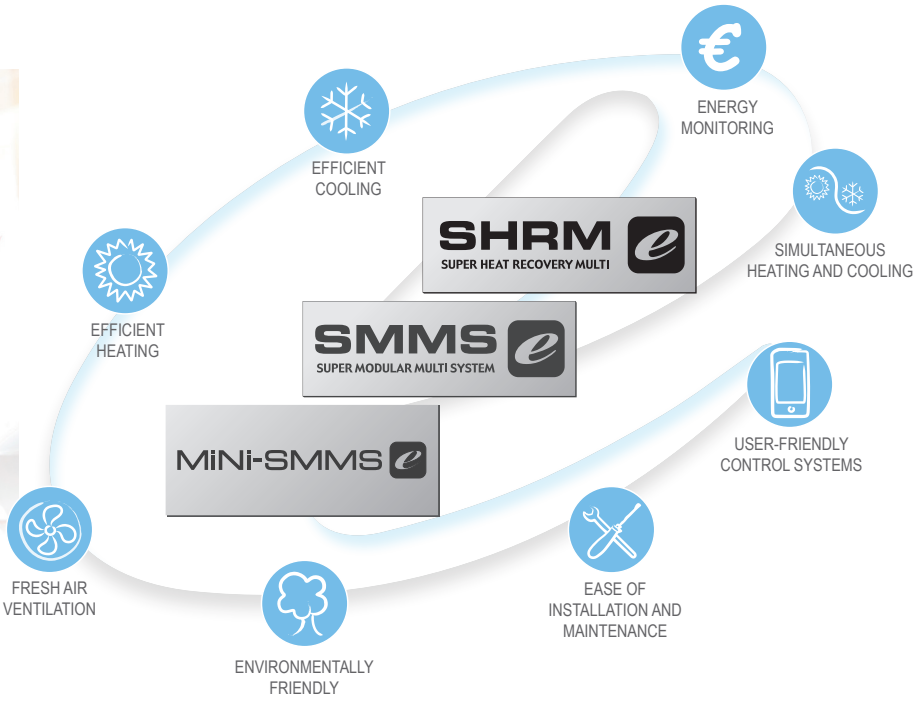
So versatile …
Maximised installation flexibility

So convenient …
Easy access for all service and maintenance needs

So professional …
Intensive training and instruction offered by local TOSHIBA-trained experts

So accessible …
Simplified and swift commissioning assisted by the all new Wave Tool App





TOSHIBA

HIGH EFFICIENCY AND LOW OPERATING COSTS

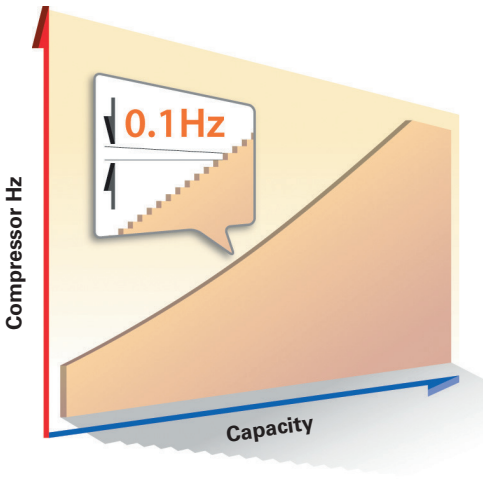
Innovative compressor technology

Toshiba's infinitely-variable inverter-driven control can continually adjust the operating speed of the compressors in real time. This ensures that the capacity output precisely matches end-user demand. The advantages of this control are further optimised by incorporating Toshiba's twin-rotary compressors. These enable Toshiba's VRF units to achieve maximum performance and class-leading SEER values.

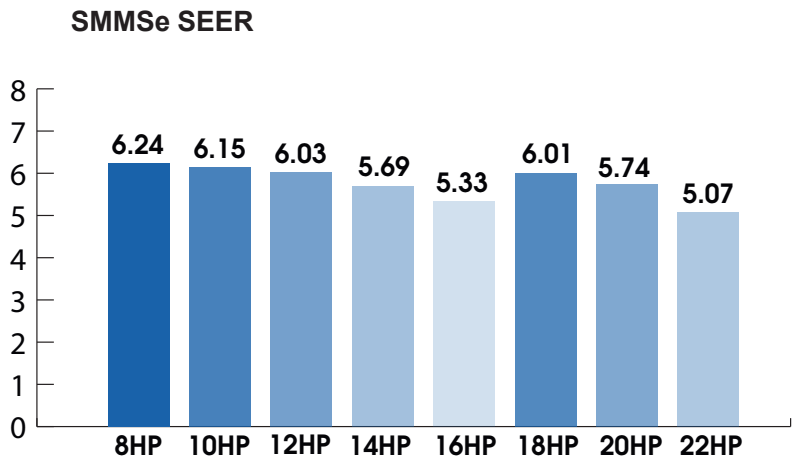


Infinite variable control

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 a 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.



Maximum part load and full load efficiencies



Utilising the new highly-efficient core technologies has resulted in greater energy efficiency and performance



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 SMMSe), one of the highest seasonal efficiency levels in the market.

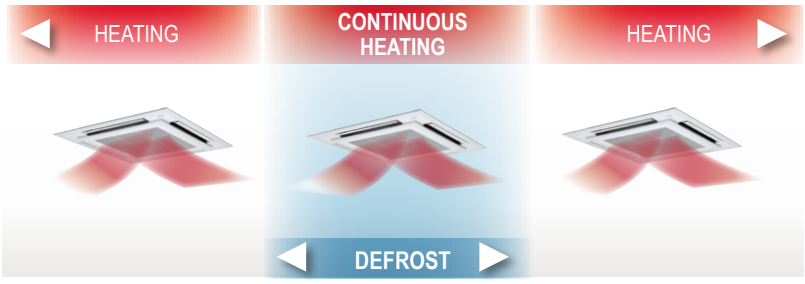
Maximum efficiency is obtained under 50% part load conditions, under which VRF systems operate predominantly.

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.

SUPERIOR AIR COMFORT

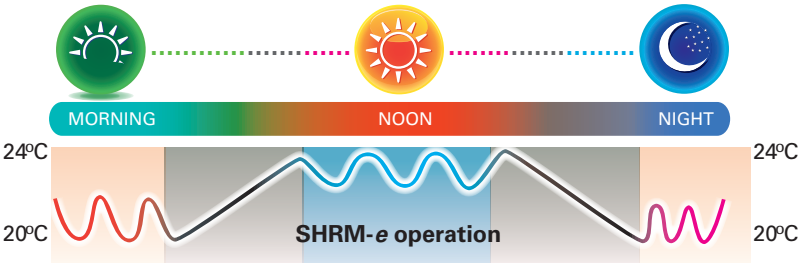
Optimised heating operations

The Toshiba VRF allows continuous heating, even during external defrost operations, thanks to the new hot gas bypass control. 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.



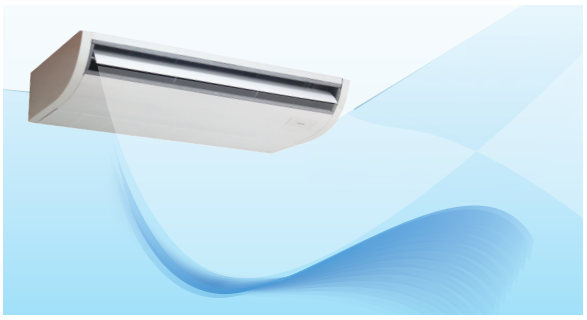
Dual set point for more precision

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.

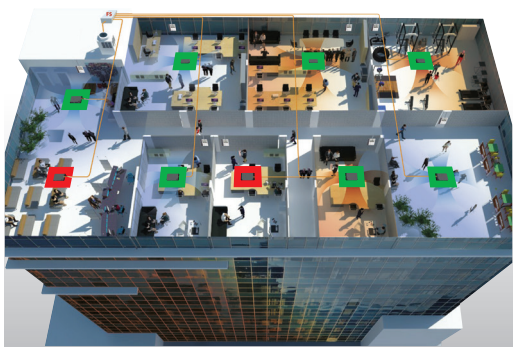


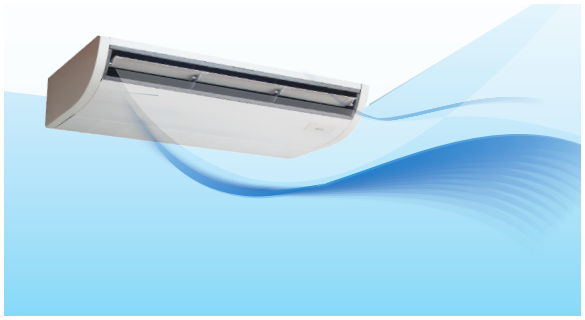
Cool comfort with soft cooling mode

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.



Standard operating mode





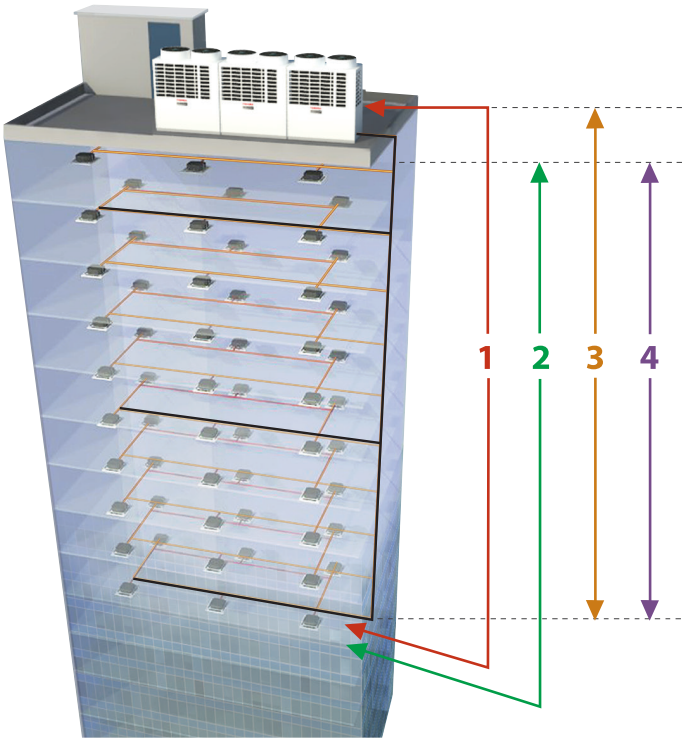
Soft cooling mode

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FLEXIBLE DESIGN AND QUICK INSTALLATION

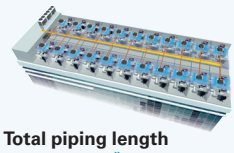
Piping design flexibility

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.



1 Total piping length

Applied with Toshiba's unique and greatly-improved technology, Toshiba's VRF can reach up to 1000 metres maximum piping length.



Total piping length
1 000 m*

2 Farthest equivalent length

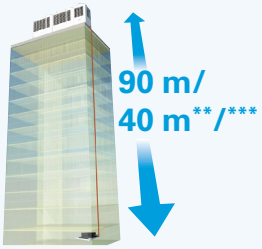
The maximum equivalent distance between the outdoor unit and the farthest indoor unit tops at 235 metres, a best-in-class for the industry.



Farthest equivalent length
235 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 90 metres. Toshiba's VRF enhanced piping capabilities result in more benefits for system design and installation flexibility, as well as lower installation costs.



4 Height difference FCU-FCU

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

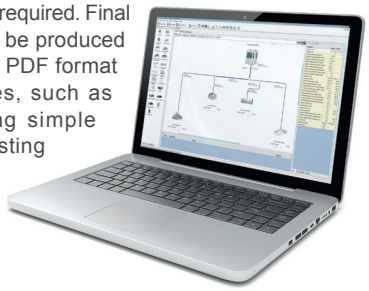
Height difference between outdoor unit and indoor unit
40/15 m***

* Above 34 hp combination
** It is 70 m for normal time, and has some specific conditions for 90 m, 50 m if piping length between indoor units is more than 3 m
*** It is allowed only if you use the multi-port FS unit

Software Design Airs makes it easier



Toshiba Selection software has been fully-designed, with a user-friendly interface allowing novice- and expert-users alike to create simple, yet detailed VRF system schematics. It is highly versatile, allowing the level of detail to be tailored to suit customer requirements. The software also allows the user to specify pricing strategy and create additional interim reports, including any diagrams and schematics required. Final detailed reports can then be produced and sent to customers in PDF format or in more complex files, such as AutoCAD DXF, allowing simple integration into their existing software packages.



Near Field Technology and Wave Tool, all your data within reach

With Near Field Communication (NFC), the SMMSe and the SHRMe are the first in the industry to allow remote monitoring of CDU operations. Using NFC technology, Read and Write data is exchanged wirelessly between the unit and a smartphone (Android, OS, 5.0) for remote commissioning and operations data checking.





Product data
System data
Fault history
Test operation results
(Android only)



Less time needed for system configuration and maintenance operations

MiNi-SMMS





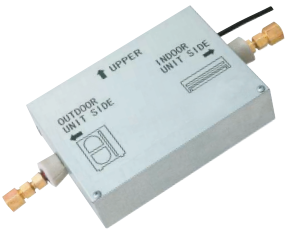
MiNi SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit/Single Fan VRF 2-Pipe Heat Pump Outdoor Unit

CODE			121	140	121	140
Model Name Heat Pump		**MCY-**	**MHP0406HT-E**	**MHP0506HT-E**	**MHP0404HS-E**	**MHP0504HS-E**
Capacity Range		**hp**	**4**	**5**	**4**	**5**
Maximum Number of Indoor Units		**QTY**	**8**	**10**	**8**	**10**
Cooling Capacity		kW	12.1	14.0	12.1	14.0
Heating Capacity		kW	12.5	16.0	12.5	16.0
Operating Range Cooling/Heating		°C	-5 to 46/-25 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	3.50	2.83	3.50
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.73/8.08/320.2	3.55/7.88/312.2	4.28/9.42/373.8	4.00/9.23/366.2
Heating	Power Consumption	kW	2.83	3.86	2.59	3.75
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.42/3.83/150.2	4.15/3.88/152.2	4.83/4.17/163.8	4.27/4.24/166.6
Fan(s)	Standard Air Flow H	l/s	1117	1183	1572	1617
	Standard Air Flow H	m^3/h	4020	4260	5660	5820
Sound	Pressure Level C/H	dB(A)	54/57	54/58	49/52	50/53
	Power Level C/H	dB(A)	71/74	71/75	66/69	68/70
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
	Weight	kg	100	100	127	127
	Refrigerant Base Charge	kg	3.3	3.3	6.4	6.4
Pipe Connections	Suction Gas Pipe Flare	inch	5/8	5/8	5/8	5/8
	Liquid Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	60	60	125	125
	Real Length	m	50	50	100	100
	Total Pipe Length (Liquid Line Real Length)	m	90	90	180	180
	Length To First Branch	m	30	30	65	65
	Real Length of Indoor Unit Connecting Piping	m	10	10	15	15
	Height Difference Outdoor Higher Than Indoor Units	m	15	15	30	30
	Height Difference Outdoor Lower Than Indoor Units	m	15	15	20	20
	Height Difference Between Indoor Units	m	10	10	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
	Power Supply Wiring Starting Current		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
	Suggested Fused Supply(s)	A	20	25	20	25
OUTDOOR RETAIL PRICE			**€3,306**	**€3,328**	**€4,146**	**€4,646**

Accessories

RBM-BY55E	VRF 2-pipe Y Joint	MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	MiNi SMMS Capacities 6.4 below 14.2 hp	€81
RBM-HY1043E	VRF 2-pipe 4-way Header	MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY1083E	VRF 2-pipe 8-way Header	MiNi SMMS Capacities below 14.2 hp	€147
RBM-PMV0363E	VRF 2-pipe Valve Kit	MiNi SMMS Capacities 0.8 - 1.25 hp	€205
RBM-PMV0903E	VRF 2-pipe Valve Kit	MiNi SMMS Capacities 1.7 - 2.5 hp	€235

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



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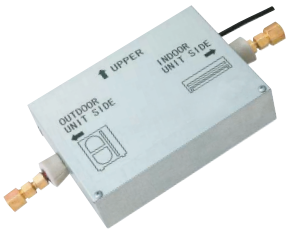
MiNi SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (Continued)

CODE			155	224	280
Model Name Heat Pump		**MCY-**	**MHP0604HS-E**	**MHP0806HS8-E**	**MHP1006HS8-E**
Capacity Range		**hp**	**6**	**8**	**10**
Maximum Number of Indoor Units		**QTY**	**13**	**12**	**16**
Cooling Capacity		kW	15.5	22.4	28.0
Heating Capacity		kW	18.0	22.4	28.0
Operating Range Cooling/Heating		°C	-5 to 46/-25 to 15	-5 to 46/-25 to 15	-5 to 46/-25 to 15
Cooling	Power Consumption	kW	4.29	6.67	9.34
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.61/9.68/384.2	3.36/8.09/320.6	3.00/7.40/293.0
Heating	Power Consumption	kW	4.31	5.20	7.00
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.18/4.37/171.8	4.31/4.50/177.0	4.00/4.38/172.2
Fan(s)	Standard Air Flow H	l/s	1681	2350	2450
	Standard Air Flow H	m^3/h	6050	8460	8820
Sound	Pressure Level C/H	dB(A)	51/54	58/59	59/60
	Power Level C/H	dB(A)	68/71	75/75	77/77
Unit	Height x Width x Depth	mm	1235 x 990 x 390	1740 x 990 x 390	1740 x 990 x 390
	Weight	kg	127	147	147
	Refrigerant Base Charge	kg	6.4	4.4	4.4
Pipe Connections	Suction Gas Pipe Flare	inch	3/4	3/4	3/4
	Liquid Pipe Flare	inch	3/8	3/8	3/8
Maximum	Equivalent Length	m	125	130	130
	Real Length	m	100	100	100
	Total Pipe Length (Liquid Line Real Length)	m	180	250	250
	Length To First Branch	m	65	70	70
	Real Length of Indoor Unit Connecting Piping	m	15	15	15
	Height Difference Outdoor Higher Than Indoor Units	m	30	30	30
	Height Difference Outdoor Lower Than Indoor Units	m	20	30	30
	Height Difference Between Indoor Units	m	15	15	15
Electrical	Electrical Characteristic Run Current Cooling/Heating	A	19.2/19.3	11.1/8.7	15.3/11.4
	Power Supply Wiring Starting Current		Soft Start	Soft Start	Soft Start
	Power Supply	V/ph/Hz	220/240-1-50	380-415/3/50	380-415/3/50
	Suggested Fused Supply(s)	A	25	20	25
OUTDOOR RETAIL PRICE			**€4,971**	**€5,727**	**€5,934**

Accessories

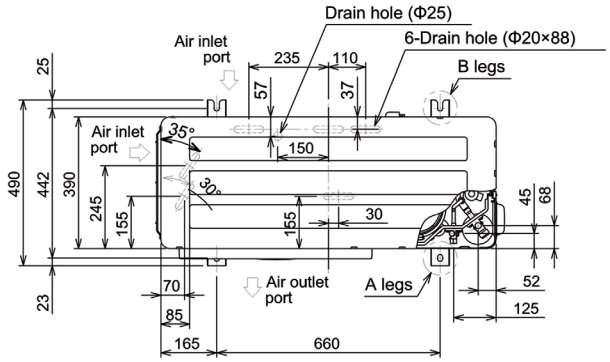
RBM-BY55E	VRF 2-pipe Y Joint	MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	MiNi SMMS Capacities 6.4 below 14.2 hp	€81
RBM-HY1043E	VRF 2-pipe 4-way Header	MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY1083E	VRF 2-pipe 8-way Header	MiNi SMMS Capacities below 14.2 hp	€147
RBM-PMV0363E	VRF 2-pipe Valve Kit	MiNi SMMS Capacities 0.8 - 1.25 hp	€205
RBM-PMV0903E	VRF 2-pipe Valve Kit	MiNi SMMS Capacities 1.7 - 2.5 hp	€235

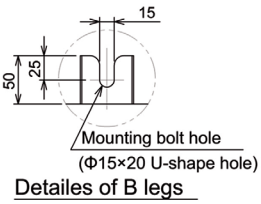
Pulse Modulating Valve Kit	RBM-	PMV0363E	PMV0903E
Indoor Unit Capacity Rank		007 - 012	015 - 024
Height x Length x Depth	mm	161 x 336 x 58	161 x 336 x 58
Weight	kg	2.3	2.5
Standard 6 Core Connection Cable Max. Length	m	10	10
Conversion Cable Max. Length (All Indoors Except MMK-AP###H Type)	m	1	1
Power 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



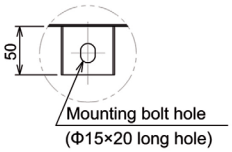


Dimensions - MCY-MHP0406HT-E, MCY-MHP0506T-E

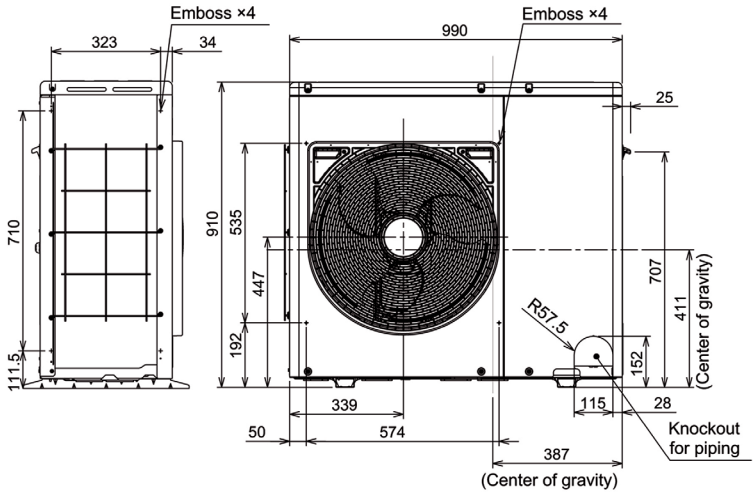


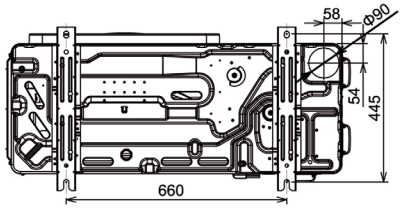


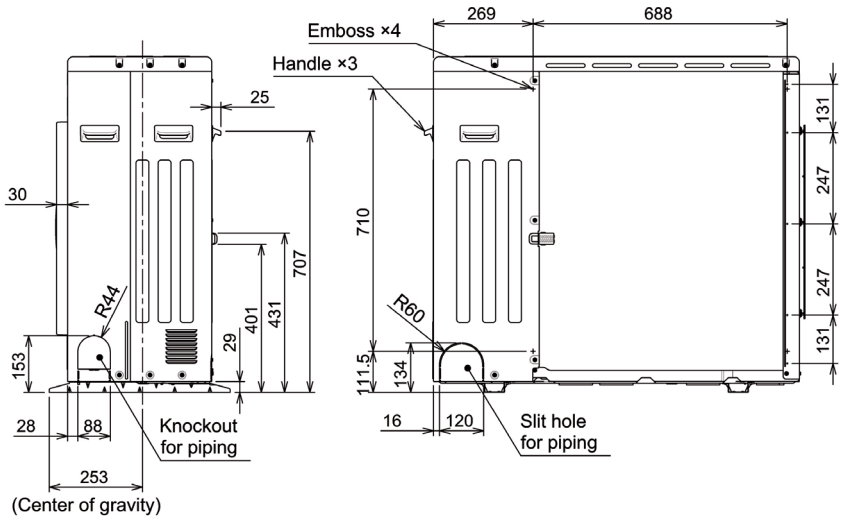
Detailes of B legs



Detailes of A legs



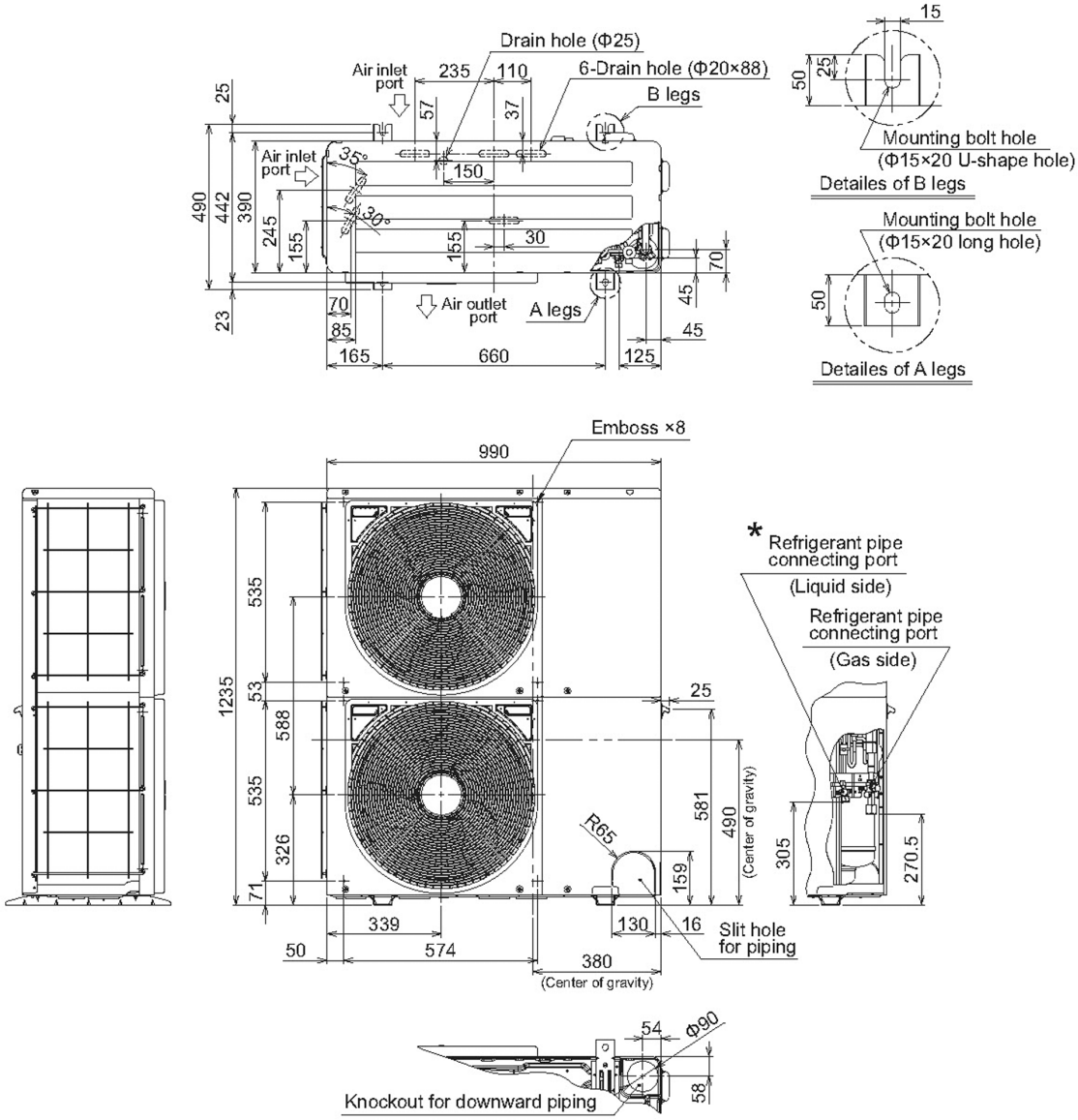


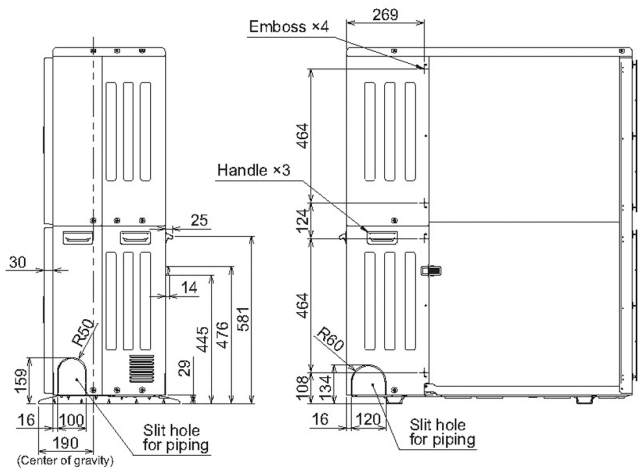


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Dimensions - MCY-MHP0404HS-E, MCY-MHP0504HS-E, MCY-MHP0604HS-E



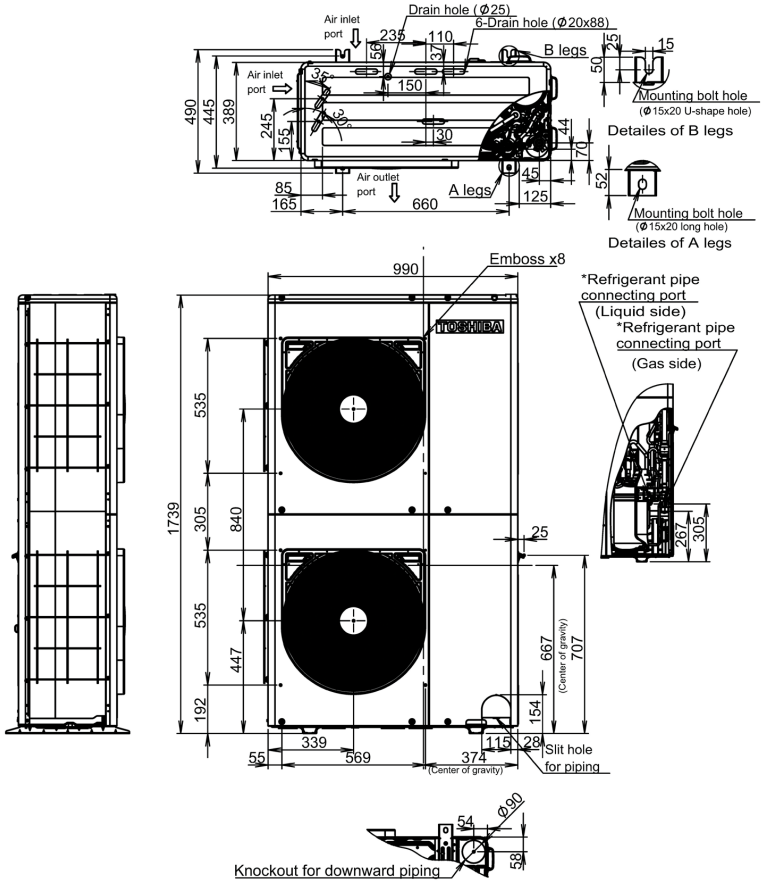


*	Diameter of pipe connecting port		Diameter of connecting pipe	
	Liquid side	Gas side	Liquid side	Gas side
MCY-MHP0404HS-E MCY-MHP0404HSJ-E	∅9.52	∅15.88	∅9.52	∅15.88
MCY-MHP0504HS-E MCY-MHP0504HSJ-E	∅9.52	∅15.88	∅9.52	∅15.88
MCY-MHP0604HS-E MCY-MHP0604HSJ-E	∅9.52	∅19.05	∅9.52	∅19.05

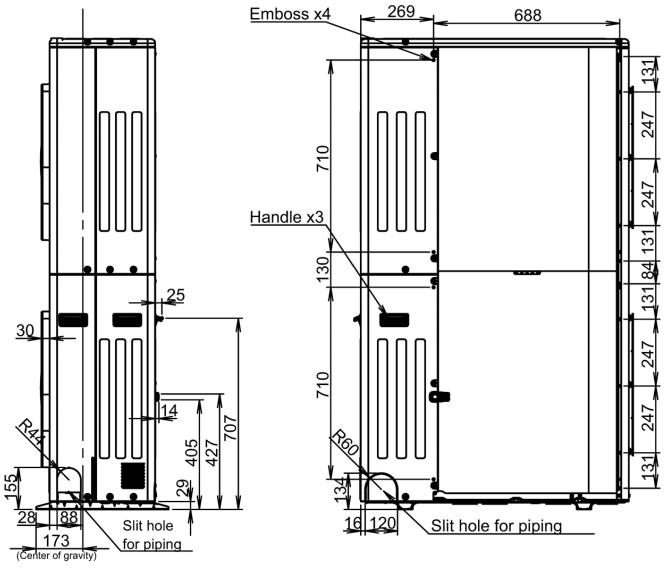
(Unit:mm)



Dimensions - MCY-MHP0806HS8-E, MCY-MHP1006HS8-E



	*	Diameter of connecting port		Diameter of connecting pipe	
		Liquid side	Gas side	Liquid side	Gas side
MCY-MHP0806HS8-E		ϕ9.52	ϕ19.05	ϕ9.52	ϕ19.05
MCY-MHP1006HS8-E		ϕ9.52	ϕ19.05	ϕ9.52	ϕ22.22
MCY-MHP0806HS8-TR		ϕ9.52	ϕ19.05	ϕ9.52	ϕ19.05
MCY-MHP1006HS8-TR		ϕ9.52	ϕ19.05	ϕ9.52	ϕ22.22



TOSHIBA



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit

CODE			224	280	335	400	450
Combination		**MMY-**					
Model Name Heat Pump		**MMY-**	**MAP0806HT8P-E**	**MAP1006HT8P-E**	**MAP1206HT8P-E**	**MAP1406HT8P-E**	**MAP1606HT8P-E**
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	5.54	7.69	10.0	12.3	14.3
	EER/SEER/Energy Efficiency Class (or ηsc %)		4.04/6.24/246.6	3.64/6.15/243.0	3.35/6.03/238.2	3.25/5.69/224.6	3.15/5.33/210.2
Heating	Power Consumption	kW	5.53	7.41	9.65	11.2	12.9
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.52/3.64/142.6	4.25/3.54/138.6	3.89/3.67/143.8	4.02/3.57/139.8	3.88/3.70/145
Fan(s)	Standard Air Flow H	l/s	2694	2694	3389	3389	3500
	Standard Air Flow H	m^3/h	9700	9700	12200	12200	12600
	External Static Pressure	Pa	60	60	50	50	40
Sound	Pressure Level C/H	dB(A)	55/56	57/58	59/61	60/62	62/64
	Power Level C/H	dB(A)	74/74	74/74	80/82	80/82	81/83
Unit(s)	Height x Width x Depth	mm	1830 x 990 x 780	1830 x 990 x 780	1830 x 990 x 780	1830 x 1210 x 780	1830 x 1210 x 780
	Weight	kg	242	242	242	300	300
	Refrigerant Base Charge	kg	11.5	11.5	11.5	11.5	11.5
Pipe Connections	Suction Gas Pipe Brazing	inch	3/4	7/8	1-1/8	1-1/8	1-1/8
	Liquid Pipe Flare	inch	1/2	1/2	1/2	5/8	5/8
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	210	210	210	210	210
	Real Length	m	170	170	170	170	170
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300	300
	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	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40	40
	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	8.79/8.77	12.10/11.60	15.50/15.00	19.50/17.80	22.40/20.20
	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	20	25	25	32	40
OUTDOOR RETAIL PRICE			**€7,733**	**€8,342**	**€9,545**	**€11,308**	**€12,190**

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	€145
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	€178
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	€81
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	€131
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	€175
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	€114
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€147
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	€143
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	€POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE			504	560	615	670	735
Combination		**MMY-**				**AP2416HT8P-E**	**AP2616HT8P-E**
Model Name Heat Pump		**MMY-**	**MAP1806HT8P-E**	**MAP2006HT8P-E**	**MAP2206HT8P-E**	**MAP1206HT8P-E MAP1206HT8P-E**	**MAP1406HT8P-E MAP1206HT8P-E**
Capacity Range		**hp**	**18**	**20**	**22**	**24**	**26**
Maximum Number of Indoor Units		**QTY**	**40**	**45**	**49**	**54**	**58**
Cooling Capacity		kW	50.4	56.0	61.5	67.0	73.5
Heating Capacity		kW	56.0	63.0	64.0	75.0	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	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	14.6	17.3	23.2	20.0	22.3
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.45/6.01/237.4	3.24/5.74/226.6	2.65/5.07/136.6	3.35/6.03/238.2	3.3//5.85/231.0
Heating	Power Consumption	kW	14.1	17.0	17.1	19.3	20.9
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.97/3.59/140.6	3.71/3.60/141	3.74/3.49/136.6	3.89/3.67/143.8	3.96/3.62/141.8
Fan(s)	Standard Air Flow H	l/s	4806	4972	5139	3389 + 3389	3389 + 3389
	Standard Air Flow H	m^3/h	17300	17900	18500	12200 + 12200	12200 + 12200
	External Static Pressure	Pa	50	40	40	50	50
Sound	Pressure Level C/H	dB(A)	60/61	61/62	61/62	62/64	62.5/64.5
	Power Level C/H	dB(A)	81/83	82/84	83/84	83/85	83/85
Unit(s)	Height x Width x Depth	mm	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 2000 x 780	1830 x 2220 x 780
	Weight	kg	371	371	371	242 + 242	300 + 242
	Refrigerant Base Charge	kg	11.5	11.5	11.5	11.5 + 11.5	11.5 + 11.5
Pipe Connections	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8
	Liquid Pipe Flare	inch	5/8	5/8	3/4	3/4	3/4
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	210	210	210	220	220
	Real Length	m	170	170	170	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300	300
	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	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40	40
	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	22.90/22.10	26.80/26.10	35.60/26.50	31.00/30.00	35.00/32.80
	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	50	25 + 25	32 + 25
OUTDOOR RETAIL PRICE			**€13,170**	**€14,036**	**€14,963**	**€19,090**	**€20,853**

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	€145
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	€178
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	€81
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	€131
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	€175
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	€114
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€147
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	€143
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	€POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE			785	850	900	954	1010
Combination		**MMY-**	**AP2816HT8P-E**	**AP3016HT8P-E**	**AP3216HT8P-E**	**AP3416HT8P-E**	**AP3616HT8P-E**
Model Name Heat Pump		**MMY-**	**MAP1606HT8P-E MAP1206HT8P-E**	**MAP1606HT8P-E MAP1406HT8P-E**	**MAP1606HT8P-E MAP1606HT8P-E**	**MAP1806HT8P-E MAP1606HT8P-E**	**MAP2006HT8P-E MAP1606HT8P-E**
Capacity Range		**hp**	**28**	**30**	**32**	**34**	**36**
Maximum Number of Indoor Units		**QTY**	**63**	**64**	**64**	**64**	**64**
Cooling Capacity		kW	78.5	85.0	90.0	95.4	101.0
Heating Capacity		kW	87.5	95.0	100.0	106.0	113.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	24.3	26.6	28.6	28.9	31.6
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.23/5.65/223.0	3.20/5.50/217.0	3.15/5.33/210.2	3.30/5.69/224.6	3.20/5.56/219.4
Heating	Power Consumption	kW	22.6	24.1	25.8	27.0	29.9
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.88/3.69/144.6	3.94/3.60/141.0	3.88/3.70/145.0	3.93/3.64/142.6	3.78/3.64/142.6
Fan(s)	Standard Air Flow H	l/s	3500 + 3389	3500 + 3389	3500 + 3500	4806 + 3500	4972 + 3500
	Standard Air Flow H	m^3/h	12600 + 12200	12600 + 12200	12600 + 12600	17300 + 12600	17900 + 12600
	External Static Pressure	Pa	40	40	40	40	40
Sound	Pressure Level C/H	dB(A)	64/66	64.5/66.5	65/67	64.5/66	64.5/66.5
	Power Level C/H	dB(A)	83.5/85.5	83.5/85.5	84/86	84/86	84.5/86.5
Unit(s)	Height x Width x Depth	mm	1830 x 2220 x 780	1830 x 2440 x 780	1830 x 2440 x 780	1830 x 2830 x 780	1830 x 2830 x 780
	Weight	kg	300 + 242	300 + 300	300 + 300	371 + 300	371 + 300
	Refrigerant Base Charge	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5
Pipe Connections	Suction Gas Pipe Brazing	inch	1-3/8	1-3/8	1-3/8	1-3/8	1-5/8
	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	220	220	220	220	220
	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	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	70	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40	40
	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	37.90/35.20	41.90/38.00	44.80/40.40	45.30/42.30	49.20/46.30
	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	40 + 25	40 + 32	40 + 40	40 + 40	50 + 40
OUTDOOR RETAIL PRICE			**€21,735**	**€23,498**	**€24,380**	**€25,360**	**€26,226**

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	€145
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	€178
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	€81
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	€131
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	€175
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	€114
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€147
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	€143
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	€POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE			1065	1120	1175	1230
Combination		**MMY-**	**AP3816HT8P-E**	**AP4016HT8P-E**	**AP4216HT8P-E**	**AP4416HT8P-E**
Model Name Heat Pump		**MMY-**	**MAP2206HT8P-E MAP1606HT8P-E**	**MAP2006HT8P-E MAP2006HT8P-E**	**MAP2206HT8P-E MAP2006HT8P-E**	**MAP2206HT8P-E MAP2206HT8P-E**
Capacity Range		**hp**	**38**	**40**	**42**	**44**
Maximum Number of Indoor Units		**QTY**	**64**	**64**	**64**	**64**
Cooling Capacity		kW	106.5	112.0	117.5	123.0
Heating Capacity		kW	114.0	126.0	127.0	128.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	37.5	34.6	40.5	46.4
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.84/5.20/205.0	3.24/5.74/226.6	2.90/5.40/213.0	2.65/5.07/199.8
Heating	Power Consumption	kW	30.0	34.0	34.1	34.2
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.80/3.59/140.6	3.71/3.60/141.0	3.72/3.55/139.0	3.74/3.49/136.6
Fan(s)	Standard Air Flow H	l/s	5139 + 3500	4972 + 4972	5139 + 4972	5139 + 5139
	Standard Air Flow H	m^3/h	18500 + 12600	17900 + 17900	18500 + 17900	18500 + 18500
	External Static Pressure	Pa	40	40	40	40
Sound	Pressure Level C/H	dB(A)	64.5/66.5	64/65	64/65	64/65
	Power Level C/H	dB(A)	85.5/86.5	85/87	85.5/87	86/87
Unit(s)	Height x Width x Depth	mm	1830 x 2830 x 780	1830 x 3220 x 780	1830 x 3220 x 780	1830 x 3220 x 780
	Weight	kg	371 + 300	371 + 371	371 + 371	371 + 371
	Refrigerant Base Charge	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5
Pipe Connections	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
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	220	220	220	220
	Real Length	m	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000	1000
	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	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
	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	58.00/46.70	53.60/52.20	62.40/52.60	71.20/53.00
	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	50 + 40	50 + 50	50 + 50	50 + 50
OUTDOOR RETAIL PRICE			**€27,153**	**€28,072**	**€28,998**	**€29,925**

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	€145
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	€178
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	€81
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	€131
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	€175
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	€114
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€147
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	€143
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	€POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.





SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE			1300	1350	1404	1460
Combination		**MMY-**	**AP4616HT8P-E**	**AP4816HT8P-E**	**AP5016HT8P-E**	**AP5216HT8P-E**
Model Name Heat Pump		**MMY-**	**MAP1606HT8P-E MAP1606HT8P-E MAP1406HT8P-E**	**MAP1606HT8P-E MAP1606HT8P-E MAP1606HT8P-E**	**MAP1806HT8P-E MAP1606HT8P-E MAP1606HT8P-E**	**MAP2006HT8P-E MAP1606HT8P-E MAP1606HT8P-E**
Capacity Range		**hp**	**46**	**48**	**50**	**52**
Maximum Number of Indoor Units		**QTY**	**64**	**64**	**64**	**64**
Cooling Capacity		kW	130.0	135.0	140.4	146.0
Heating Capacity		kW	145.0	150.0	156.0	163.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	40.9	42.9	43.2	45.9
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.18/5.44/214.6	3.15/5.33/210.2	3.25/5.58/220.2	3.18/5.49/216.6
Heating	Power Consumption	kW	37.0	38.7	39.9	42.8
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.92/3.67/143.8	3.88/3.70/145.0	3.91/3.66/143.4	3.81/3.66/143.4
Fan(s)	Standard Air Flow H	l/s	3500 + 3500 + 3389	3500 + 3500 + 3500	4806 + 3500 + 3500	4972 + 3500 + 3500
	Standard Air Flow H	m^3/h	12600 + 12600 + 12200	12600 + 12600 + 12600	17300 + 12600 + 12600	17900 + 12600 + 12600
	External Static Pressure	Pa	40	40	40	40
Sound	Pressure Level C/H	dB(A)	66.5/68.5	67/69	66.5/68	66.5/68.5
	Power Level C/H	dB(A)	85.5/87.5	86/88	86/88	86.5/88.5
Unit(s)	Height x Width x Depth	mm	1830 x 3670 x 780	1830 x 3670 x 780	1830 x 4060 x 780	1830 x 4060 x 780
	Weight	kg	300 + 300 + 300	300 + 300 + 300	371 + 300 + 300	371 + 300 + 300
	Refrigerant Base Charge	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
Pipe Connections	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
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	185	185	185	185
	Real Length	m	145	145	145	145
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000	1000
	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	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
	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	64.30/58.20	67.20/60.60	67.70/62.50	71.60/66.50
	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	40 + 40 + 32	40 + 40 + 40	40 + 40 + 40	50 + 40 + 40
OUTDOOR RETAIL PRICE			**€35,688**	**€36,570**	**€37,550**	**€38,416**

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	€145
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	€178
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	€81
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	€131
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	€175
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	€114
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€147
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	€143
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	€POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.





SMMSe - VRF 2-Pipe Heat Pump Outdoor Unit (continued)

CODE			1515	1570	1625	1680
Combination		**MMY-**	**AP5416HT8P-E**	**AP5616HT8P-E**	**AP5816HT8P-E**	**AP6016HT8P-E**
Model Name Heat Pump		**MMY-**	**MAP2206HT8P-E MAP1606HT8P-E MAP1606HT8P-E**	**MAP2006HT8P-E MAP2006HT8P-E MAP1606HT8P-E**	**MAP2206HT8P-E MAP2006HT8P-E MAP1606HT8P-E**	**MAP2206HT8P-E MAP2206HT8P-E MAP1606HT8P-E**
Capacity Range		**hp**	**54**	**56**	**58**	**60**
Maximum Number of Indoor Units		**QTY**	**64**	**64**	**64**	**64**
Cooling Capacity		kW	151.5	157.0	162.5	168.0
Heating Capacity		kW	164.0	176.0	177.0	178.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5	-5.0 to 46.0/ -25.0 to 15.5
Cooling	Power Consumption	kW	51.8	48.9	54.8	60.7
	EER/SEER/Energy Efficiency Class (or ηsc %)		2.92/5.24/206.6	3.21/5.62/221.8	2.97/5.38/212.2	2.77/5.16/203.4
Heating	Power Consumption	kW	42.9	46.9	47.0	47.1
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.82/3.62/141.8	3.75/3.62/141.8	3.77/3.59/140.6	3.78/3.55/139.0
Fan(s)	Standard Air Flow H	l/s	5139 + 3500 + 3500	4972 + 4972 + 3500	5139 + 4972 + 3500	5139 + 5139 + 3500
	Standard Air Flow H	m^3/h	18500 + 12600 + 12600	17900 + 17900 + 12600	18500 + 17900 + 12600	18500 + 18500 + 12600
	External Static Pressure	Pa	40	40	40	40
Sound	Pressure Level C/H	dB(A)	66.5/68.5	66.5/67.5	66.5/67.5	66.5/67.5
	Power Level C/H	dB(A)	86.5/88.5	86.5/88.5	87/88.5	87.5/88.5
Unit(s)	Height x Width x Depth	mm	1830 x 4060 x 780	1830 x 4450 x 780	1830 x 4450 x 780	1830 x 4450 x 780
	Weight	kg	371 + 300 + 300	371 + 371 + 300	371 + 371 + 300	371 + 371 + 300
	Refrigerant Base Charge	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
Pipe Connections	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
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	185	185	185	185
	Real Length	m	145	145	145	145
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000	1000
	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	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
	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	80.40/66.90	76.00/72.40	84.80/72.80	93.60/73.20
	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	50 + 40 + 40	50 + 50 + 50	50 + 50 + 40	50 + 50 + 40
OUTDOOR RETAIL PRICE			**€39,343**	**€40,262**	**€41,188**	**€42,115**

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	€145
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	€178
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	€81
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	€131
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	€175
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	€114
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€147
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	€143
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	€POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.



SMMSe - VRF 2-Pipe Heat Pump High Efficiency Outdoor Unit

CODE			560	615	1005	1070
Combination		**MMY-**	**AP2026HT8P-E**	**AP2226HT8P-E**	**AP3626HT8P-E**	**AP3826HT8P-E**
Model Name Heat Pump		**MMY-**	**MAP1006HT8P-E MAP1006HT8P-E**	**MAP1206HT8P-E MAP1006HT8P-E**	**MAP1206HT8P-E MAP1206HT8P-E MAP1206HT8P-E**	**MAP1406HT8P-E MAP1206HT8P-E MAP1206HT8P-E**
Capacity Range		**hp**	**20**	**22**	**36**	**38**
Maximum Number of Indoor Units		**QTY**	**45**	**49**	**64**	**64**
Cooling Capacity		kW	56.0	61.5	100.5	107.0
Heating Capacity		kW	63.0	69.0	112.5	120.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5
Cooling	Power Consumption	kW	15.4	17.7	30.0	32.3
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.64/6.15/243.0	3.48/6.11/241.4	3.35/6.03/238.2	3.31/5.91/233.4
Heating	Power Consumption	kW	14.8	17.1	29.0	30.5
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.25/3.54/243.0	4.04/3.61/241.4	3.89/3.67/238.2	3.93/3.63/233.4
Fan(s)	Standard Air Flow H	l/s	2694 + 2694	3389 + 2694	3389 + 3389 + 3389	3389 + 3389 + 3389
	Standard Air Flow H	m^3/h	9700 + 9700	12200 + 9700	12200 + 12200 + 12200	12200 + 12200 + 12200
	External Static Pressure	Pa	60	50	50	50
Sound	Pressure Level C/H	dB(A)	60/61	61.5/63	64/66	64.5/66.5
	Power Level C/H	dB(A)	77/77	81/83	85/87	85/87
Unit(s)	Height x Width x Depth	mm	1830 x 2000 x 780	1830 x 2000 x 780	1830 x 3010 x 780	1830 x 3230 x 780
	Weight	kg	242 + 242	242 + 242	242 + 242 + 242	300 + 242 + 242
	Refrigerant Base Charge	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
Pipe Connections	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-5/8	1-5/8
	Liquid Pipe Flare	inch	5/8	3/4	7/8	7/8
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	220	220	235	235
	Real Length	m	180	180	190	190
	Total Pipe Length (Liquid Line Real Length)	m	300	300	1000	1000
	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	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
	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	24.20/23.20	27.60/26.60	46.50/45.00	50.50/47.80
	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	25 + 25	25 + 25	25 + 25 + 25	32 + 25 + 25
OUTDOOR RETAIL PRICE			**€16,684**	**€17,887**	**€28,635**	**€30,398**

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	€145
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	€178
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	€81
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	€131
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	€175
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	€114
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€147
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	€143
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	€POA

Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.





SMMSe - VRF 2-Pipe Heat Pump High Efficiency Outdoor Unit (continued)

CODE			1135	1200	1250	1520
Combination		**MMY-**	**AP4026HT8P-E**	**AP4226HT8P-E**	**AP4426HT8P-E**	**AP5426HT8P-E**
Model Name Heat Pump		**MMY-**	**MAP1406HT8P-E MAP1406HT8P-E MAP1206HT8P-E**	**MAP1406HT8P-E MAP1406HT8P-E MAP1406HT8P-E**	**MAP1606HT8P-E MAP1406HT8P-E MAP1406HT8P-E**	**MAP2006HT8P-E MAP2006HT8P-E MAP1406HT8P-E**
Capacity Range		**hp**	**40**	**42**	**44**	**54**
Maximum Number of Indoor Units		**QTY**	**64**	**64**	**64**	**64**
Cooling Capacity		kW	113.5	120.0	125.0	152.0
Heating Capacity		kW	127.5	135.0	140.0	171.0
Operating Range Cooling/Heating		°C	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5	-5.0 to 46.0/-25.0 to 15.5
Cooling	Power Consumption	kW	34.6	36.9	38.9	46.9
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.28/5.80/229.0	3.25/5.69/224.6	3.21/5.56/219.4	3.24/5.74/226.6
Heating	Power Consumption	kW	32.1	33.6	35.3	45.2
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.98/3.60/229.0	4.02/3.57/224.6	3.97/3.62/219.4	3.78/3.59/226.6
Fan(s)	Standard Air Flow H	l/s	3389 + 3389 + 3389	3389 + 3389 + 3389	3500 + 3389 + 3389	4972 + 4972 + 3389
	Standard Air Flow H	m^3/h	12200 + 12200 + 12200	12200 + 12200 + 12200	12600 + 12200 + 12200	17900 + 17900 + 12200
	External Static Pressure	Pa	50	50	40	40
Sound	Pressure Level C/H	dB(A)	64.5/66.5	65/67	65.5/67.5	65.5/67
	Power Level C/H	dB(A)	85/87	85/87	85.5/87.5	86.5/88.5
Unit(s)	Height x Width x Depth	mm	1830 x 3450 x 780	1830 x 3670 x 780	1830 x 3670 x 780	1830 x 4450 x 780
	Weight	kg	300 + 300 + 242	300 + 300 + 300	300 + 300 + 300	371 + 371 + 300
	Refrigerant Base Charge	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
Pipe Connections	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
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	235	235	235	185
	Real Length	m	190	190	190	145
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000	1000
	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	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40
	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	54.50/50.60	58.50/53.40	61.40/55.80	73.10/70.00
	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	32 + 32 + 25	32 + 32 + 32	40 + 32 + 32	50 + 50 + 32
OUTDOOR RETAIL PRICE			**€32,161**	**€33,924**	**€34,806**	**€39,379**

Accessories

RBM-BT14E	VRF 2-pipe Modular Kit	SMMS Capacities below 26 hp	€145
RBM-BT24E	VRF 2-pipe Modular Kit	SMMS Capacities 26 hp & above	€178
RBM-BY55E	VRF 2-pipe Y Joint	SMMS & MiNi SMMS Capacities below 6.4 hp	€64
RBM-BY105E	VRF 2-pipe Y Joint	SMMS Capacities 6.4 below 14.2 hp	€81
RBM-BY205E	VRF 2-pipe Y Joint	SMMS Capacities 14.2 below 25.2 hp	€131
RBM-BY305E	VRF 2-pipe Y Joint	SMMS Capacities 25.2 hp & above	€175
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€105
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMS Capacities 14.2 to 25.2 hp	€114
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMS & MiNi SMMS Capacities below 14.2 hp	€147
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMS Capacities 14.2 to 25.2 hp	€143
SMMSe-CDUSC	VRF CDU Split Case	For easier site access (Terms & Conditions apply)	€POA

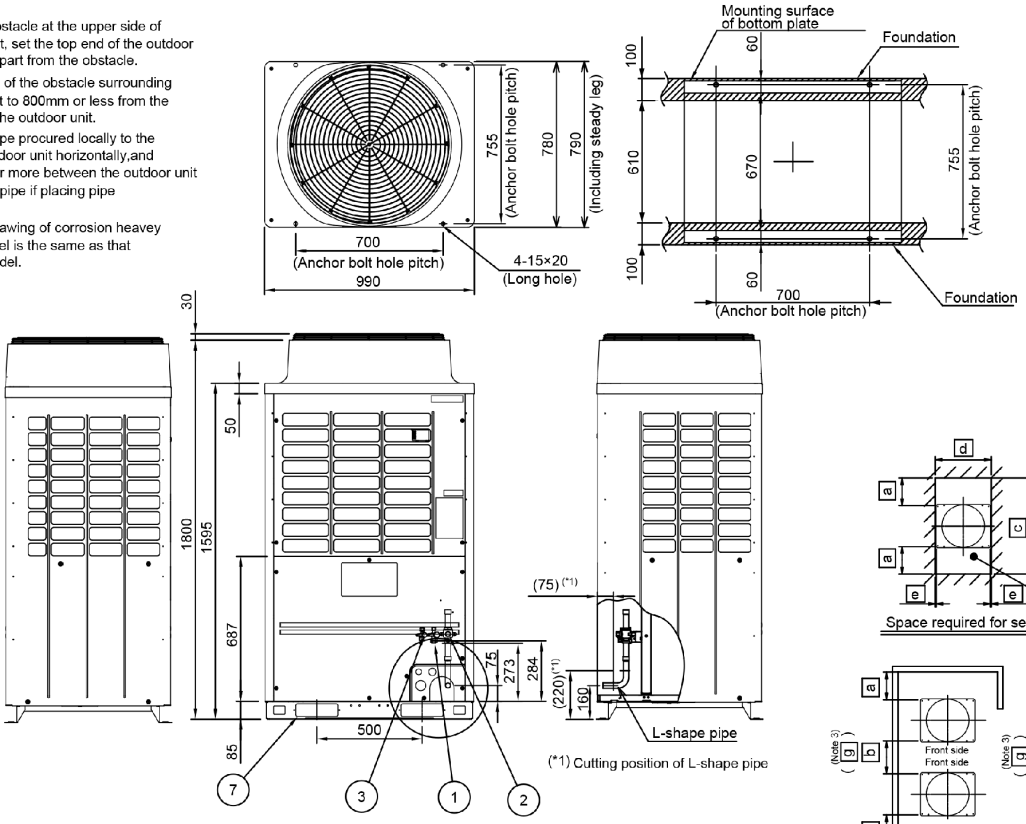
Note: Indoor connected capacity 50% to 135% of outdoor capacity. Use Data Book for specific details.

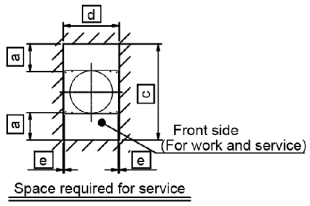


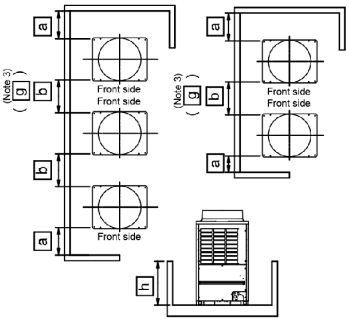
Dimensions - MMY-MAP0806HT8P-E, MMY-MAP1006HT8P-E, MMY-MAP1206HT8P-E

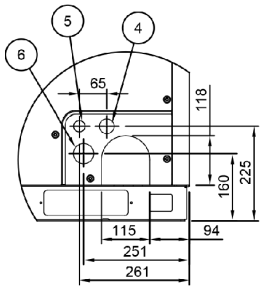
(Note)

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. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. 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.
4. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

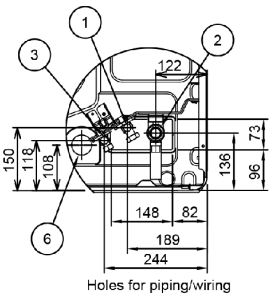








Holes for piping/wiring



Holes for piping/wiring
(Plan view)

a ≥ 500mm
b ≥ 600mm
c ≥ 1780mm
d ≥ 1010mm
e ≥ 10mm
g ≥ 1000mm
h ≤ 800mm

Model Name	ϕA
MAP0806 type	ϕ19.1
MAP1006 type	ϕ22.2
MAP1206 type	ϕ28.6

No	Parts name	Remarks
①	Liquid pipe connection port	ϕ12.7
②	Gas pipe connection port	ϕA
③	Balance pipe connection port	ϕ9.5
④	Knockout hole for power wiring 1	ϕ35
⑤	Knockout hole for control wiring	ϕ27
⑥	Knockout hole for power wiring 2	ϕ48
⑦	Square hole (for freight handling)	2-60X200

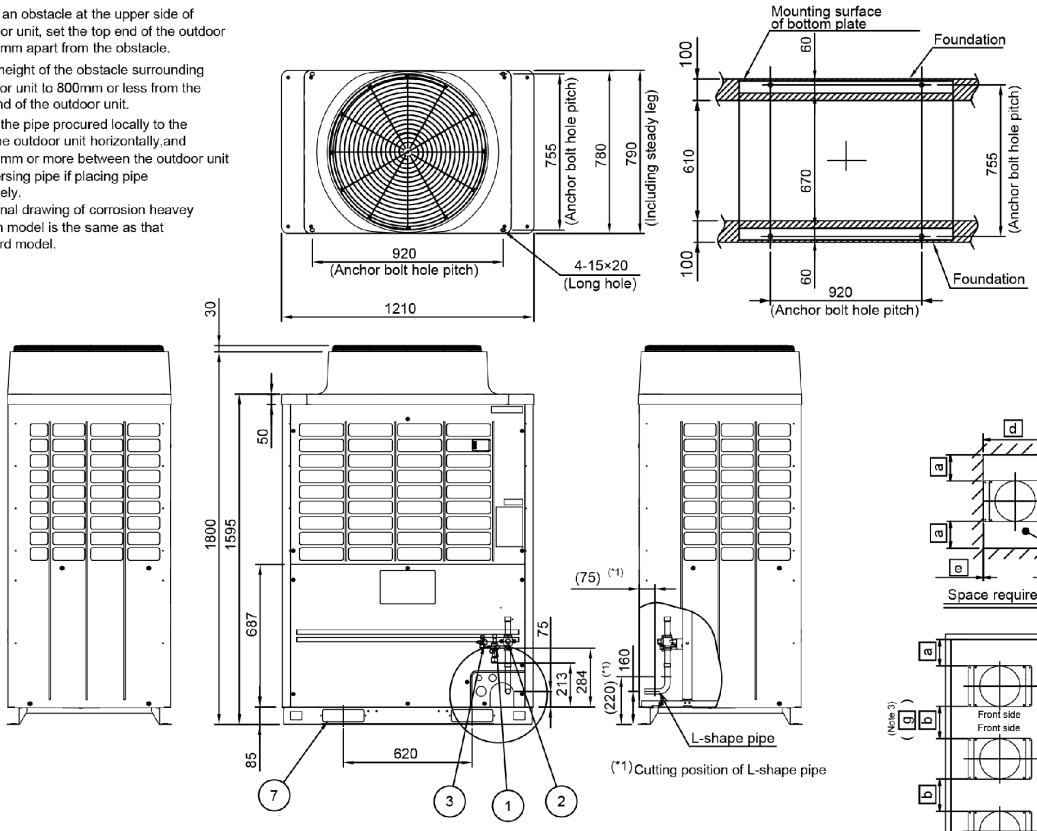
(Unit:mm)

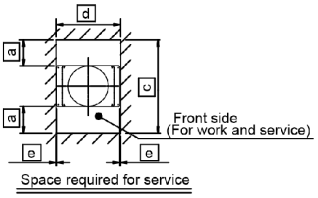


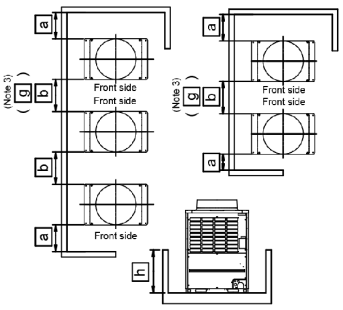
Dimensions - MMY-MAP1406HT8P-E, MMY-MAP1606HT8P-E

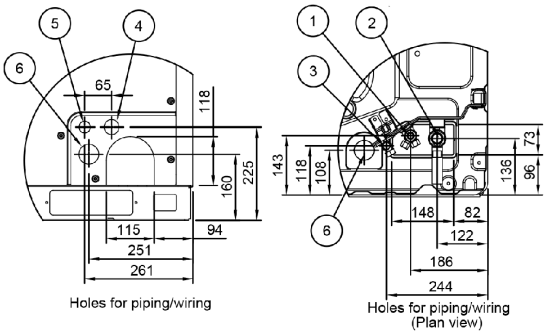
(Note)

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. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. 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.
4. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.









a	≥ 500mm
b	≥ 600mm
c	≥ 1780mm
d	≥ 1230mm
e	≥ 10mm
g	≥ 1000mm
h	≤ 800mm

No	Parts name	Remarks
①	Liquid pipe connection port	ϕ15.9
②	Gas pipe connection port	ϕ28.6
③	Balance pipe connection port	ϕ9.5
④	Knockout hole for power wiring 1	ϕ35
⑤	Knockout hole for control wiring	ϕ27
⑥	Knockout hole for power wiring 2	ϕ48
⑦	Square hole (for freight handling)	2-60X200

(Unit:mm)

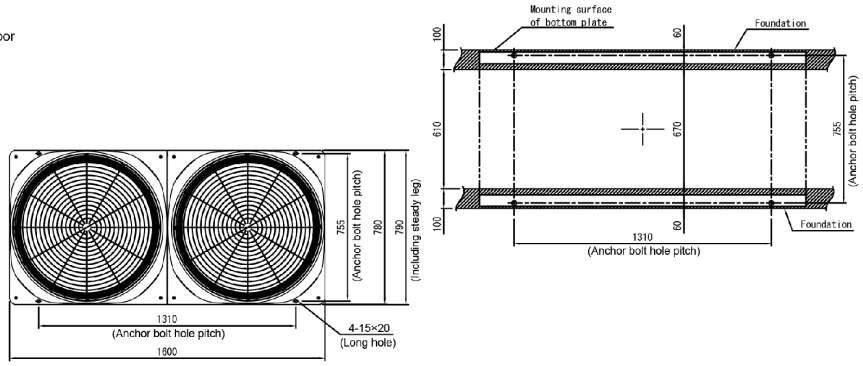
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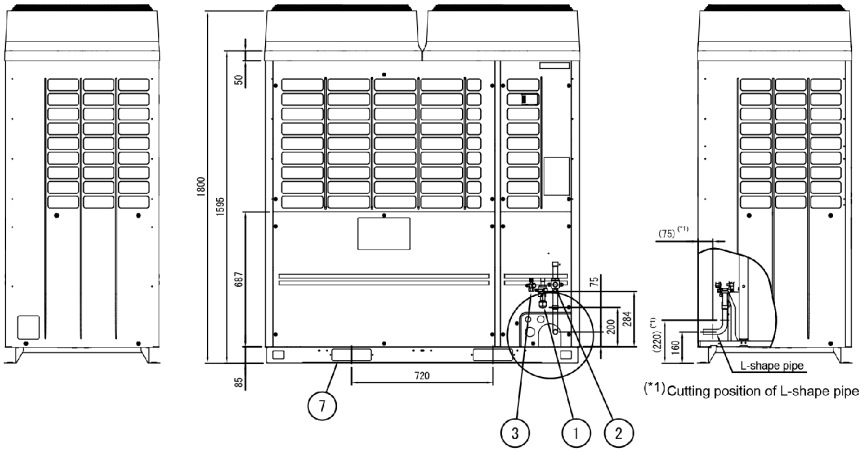


Dimensions - MMY-MAP1806HT8P-E, MMY-MAP2006HT8P-E, MMY-MAP2206HT8P-E

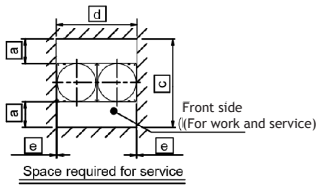
(Note)

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. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. 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.
4. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

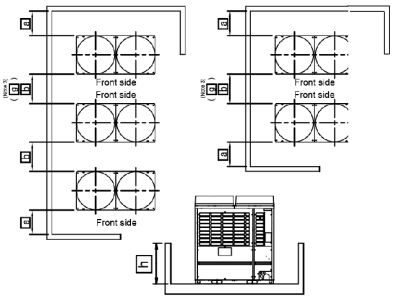


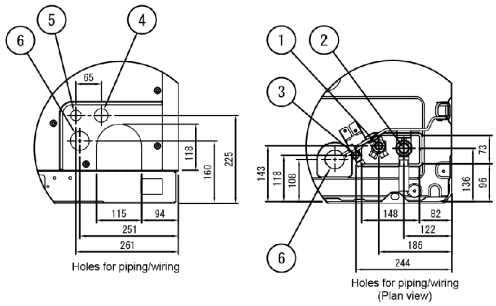


(*1) Cutting position of L-shape pipe



Space required for service





a	≥ 500mm
b	≥ 600mm
c	≥ 1780mm
d	≥ 1230mm
e	≥ 10mm
g	≥ 1000mm
h	≤ 800mm

Model Name	ϕA
MAP1806 type	ϕ15.9
MAP2006 type	ϕ15.9
MAP2206 type	ϕ19.1

No	Parts name	Remarks
①	Liquid pipe connection port	ϕA
②	Gas pipe connection port	ϕ28.6
③	Balance pipe connection port	ϕ9.5
④	Knockout hole for power wiring 1	ϕ35
⑤	Knockout hole for control wiring	ϕ27
⑥	Knockout hole for power wiring 2	ϕ48
⑦	Square hole (for freight handling)	2-60X200

(Unit:mm)



SHRMe - VRF 3-Pipe Heat Recovery Outdoor Unit

CODE			224	280	335	400	450
Combination		MMY-					
Model Name Heat Recovery		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	m^3/h	9700	9700	12200	12200	17300
	External Static Pressure	Pa	60	50	50	40	40
Sound	Pressure Level C/H	dB(A)	59/61	59/61	60/62	62/64	61/62
	Power Level C/H	dB(A)	80/82	80/82	80/82	81/83	83/84
Unit(s)	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
	Weight	kg	263	263	316	316	377
	Refrigerant Base Charge	kg	11	11	11	11	11
Pipe Connections	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
	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
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	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			**€7,698**	**€8,308**	**€11,250**	**€11,774**	**€12,871**

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	€74
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	€101
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	€151
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	€250
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	€147
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	€147
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	€231
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	€238
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	€146
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	€179

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%



SHRMe - 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	m^3/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	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			**€13,717**	**€14,621**	**€19,558**	**€20,081**	**€23,024**

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	€74
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	€101
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	€151
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	€250
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	€147
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	€147
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	€231
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	€238
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	€146
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	€179

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%



SHRMe - VRF 3-Pipe Heat Recovery Outdoor Unit (continued)

CODE			800	850	904	954	1008
Combination		**MMY-**	**AP2816FT8P-UK**	**AP3016FT8P-UK**	**AP3216FT8P-UK**	**AP3416FT8P-UK**	**AP3616FT8P-UK**
Model Name Heat Recovery		**MMY-**	**MAP1406FT8P-UK MAP1406FT8P-UK**	**MAP1606FT8P-UK MAP1406FT8P-UK**	**MAP1806FT8P-UK MAP1406FT8P-UK**	**MAP1806FT8P-UK MAP1606FT8P-UK**	**MAP1806FT8P-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	m^3/h	12200 + 12200	17300 + 12200	17300 + 12200	17300 + 17300	17300 + 17300
	External Static Pressure	Pa	40	40	40	40	40
Sound	Pressure Level C/H	dB(A)	65.5/67.5	65/66.5	65/66.5	64.5/65.5	64.5/65.5
	Power Level C/H	dB(A)	84.5/86.5	85.5/87	85.5/87	86.5/87.5	86.5/87.5
Unit(s)	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
	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
Pipe Connections	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
	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	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	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			**€23,547**	**€24,645**	**€25,491**	**€26,588**	**€27,434**

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	€74
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	€101
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	€151
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	€250
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	€147
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	€147
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	€231
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	€238
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	€146
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	€179

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%

TOSHIBA



SHRMe - VRF 3-Pipe Heat Recovery Outdoor Unit (continued)

CODE			1064	1120	1200
Combination		**MMY-**	**AP3816FT8P-UK**	**AP4016FT8P-UK**	**AP4216FT8P-UK**
Model Name Heat Recovery		**MMY-**	**MAP2006FT8P-UK MAP1806FT8P-UK**	**MAP2006FT8P-UK MAP2006FT8P-UK**	**MAP1406FT8P-UK MAP1406FT8P-UK MAP1406FT8P-UK**
Capacity Range		**hp**	**38**	**40**	**42**
Maximum Number of Indoor Units		**QTY**	**64**	**64**	**64**
Cooling Capacity		kW	106.4	112.0	120.0
Heating Capacity		kW	114.5	116.0	135.0
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	34.60	37.20	38.10
	EER/SEER/Energy Efficiency Class (or ηsc %)		3.08/5.81/229.4	3.01/5.68/224.2	3.15/5.67/223.8
Heating	Power Consumption	kW	29.60	31.80	31.50
	COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		3.59/3.60/141.0	3.52/3.60/141.0	3.81/3.57/139.8
Fan(s)	Standard Air Flow H	l/s	4972 + 4806	4972 + 4972	3389 + 3389 + 3389
	Standard Air Flow H	m^3/h	17900 + 17300	17900 + 17900	12200 + 12200 + 12200
	External Static Pressure	Pa	40	40	40
Sound	Pressure Level C/H	dB(A)	64.5/65.5	64.5/65.5	67/69
	Power Level C/H	dB(A)	86.5/87.5	86.5/87.5	86/88
Unit(s)	Height x Width x Depth	mm	1830 x 3220 x 780	1830 x 3220 x 780	1830 x 3670 x 780
	Weight	kg	377 + 377	377 + 377	316 + 316 + 316
	Refrigerant Base Charge	kg	11 + 11	11 + 11	11 + 11 + 11
Pipe Connections	Suction Gas Pipe Brazing	inch	1-5/8	1-5/8	1-5/8
	Discharge Pipe Brazing	inch	1-3/8	1-3/8	1-3/8
	Liquid Pipe Flare	inch	7/8	7/8	7/8
	Balance Pipe Flare	inch	3/8	3/8	3/8
Maximum	Maximum Equivalent Length	m	200	200	200
	Real Length	m	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	1000	1000	1000
	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	50	50	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	54.28/46.19	58.36/49.35	59.8/49.4
	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	50 + 40	50 + 50	32 + 32 + 32
OUTDOOR RETAIL PRICE			**€28,338**	**€29,242**	**€35,321**

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	€74
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	€101
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	€151
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	€250
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	€147
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	€147
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	€231
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	€238
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	€146
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	€179

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%



SHRMe - VRF 3-Pipe Heat Recovery High Efficiency Outdoor Unit

CODE			448	504	560	672
Combination		**MMY-**	**AP1626FT8P-UK**	**AP1826FT8P-UK**	**AP2026FT8P-UK**	**AP2426FT8P-UK**
Model Name Heat Recovery		**MMY-**	**MAP0806FT8P-UK MAP0806FT8P-UK**	**MAP0806FT8P-UK MAP1006FT8P-UK**	**MAP1006FT8P-UK MAP1006FT8P-UK**	**MAP0806FT8P-UK MAP0806FT8P-UK MAP0806FT8P-UK**
Capacity Range		**hp**	**16**	**18**	**20**	**24**
Maximum Number of Indoor Units		**QTY**	**36**	**40**	**41**	**54**
Cooling Capacity		kW	44.8	50.4	56.0	67.2
Heating Capacity		kW	50.0	56.5	63.0	75.0
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
Cooling	Power Consumption	kW	12.13	14.18	16.23	18.20
	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	3.76/6.19/244.6
Heating	Power Consumption	kW	10.77	12.28	13.79	16.15
	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	4.14/3.64/142.6
Fan(s)	Standard Air Flow H	l/s	2694 + 2694	2694 + 2694	2694 + 2694	2694 + 2694 + 2694
	Standard Air Flow H	m^3/h	9700 + 9700	9700 + 9700	9700 + 9700	9700 + 9700 + 9700
	External Static Pressure	Pa	60	60	50	60
Sound	Pressure Level C/H	dB(A)	62/64	62/64	62/64	62/64
	Power Level C/H	dB(A)	83/85	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 2000 x 780	1830 x 3010 x 780
	Weight	kg	263 + 263	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 + 11.0 + 11.0
Pipe Connections	Suction Gas Pipe Brazing	inch	1-1/8	1-1/8	1-1/8	1-3/8
	Discharge Pipe Brazing	inch	7/8	7/8	7/8	1-1/8
	Liquid Pipe Flare	inch	3/4	3/4	3/4	3/4
	Balance Pipe Flare	inch	3/8	3/8	3/8	3/8
Maximum	Equivalent Length	m	200	200	200	200
	Real Length	m	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	300	300	300	300
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	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)
	Real Length Between Multi Port FS Unit and Indoor Unit	m	15	15	15	50
	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	70	70	70
	Height Difference Outdoor Lower Than Indoor Units	m	30	30	30	30
	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	18.88/17.14	21.93/19.63	24.98/22.12	28.32/25.71
	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 + 20	20 + 25	25 + 25	20 + 20 + 20
OUTDOOR RETAIL PRICE			**€15,396**	**€16,006**	**€16,615**	**€23,094**

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	€74
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	€101
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	€151
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	€250
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	€147
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	€147
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	€231
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	€238
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	€146
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	€179

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%

TOSHIBA



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

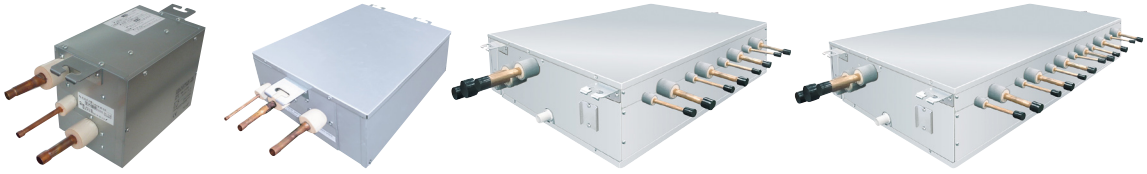
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Combination		**MMY-**	**AP2626FT8P-UK**	**AP2826FT8P-UK**	**AP3026FT8P-UK**	**AP3626FT8P-UK**	**AP4226FT8P-UK**
Model Name Heat Recovery		**MMY-**	**MAP0806FT8P-UK MAP0806FT8P-UK MAP1006FT8P-UK**	**MAP0806FT8P-UK MAP1006FT8P-UK MAP1006FT8P-UK**	**MAP1006FT8P-UK 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	m^3/h	9700 + 9700 + 9700	9700 + 9700 + 9700	9700 + 9700 + 9700	12200 + 12200 + 12200	17300 + 17300 + 9700
	External Static Pressure	Pa	50	50	50	50	40
Sound	Pressure Level C/H	dB(A)	62/64	62/64	62/64	63/65	63/64.5
	Power Level C/H	dB(A)	83/85	83/85	83/85	83/85	85/86
Unit(s)	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
	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
Pipe Connections	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
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	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			**€23,704**	**€24,313**	**€24,923**	**€33,751**	**€34,049**

Accessories

RBM-BY55FE	VRF 3-pipe Y Joint	SHRM Capacities below 6.4 hp	€74
RBM-BY105FE	VRF 3-pipe Y Joint	SHRM Capacities 6.4 - 14.2 hp	€101
RBM-BY205FE	VRF 3-pipe Y Joint	SHRM Capacities 14.2 - 25.2 hp	€151
RBM-BY305FE	VRF 3-pipe Y Joint	SHRM Capacities above 25.2 hp	€250
RBM-HY1043FE	VRF 3-pipe 4-way Header	SHRM Capacities below 6.4 hp	€147
RBM-HY2043FE	VRF 3-pipe 4-way Header	SHRM Capacities 6.4 - 14.2 hp	€147
RBM-HY1083FE	VRF 3-pipe 8-way Header	SHRM Capacities 14.2 - 25.2 hp	€231
RBM-HY2083FE	VRF 3-pipe 8-way Header	SHRM Capacities above 25.2 hp	€238
RBM-BT14FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities below 26 hp	€146
RBM-BT24FE	VRF CDU 3-pipe Modular Kit	SHRM Capacities above 26 hp	€179

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%



SHRMe - 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		€652	€723	€1,135	€980	€1,087	€1,704

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		€2,622	€3,934

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

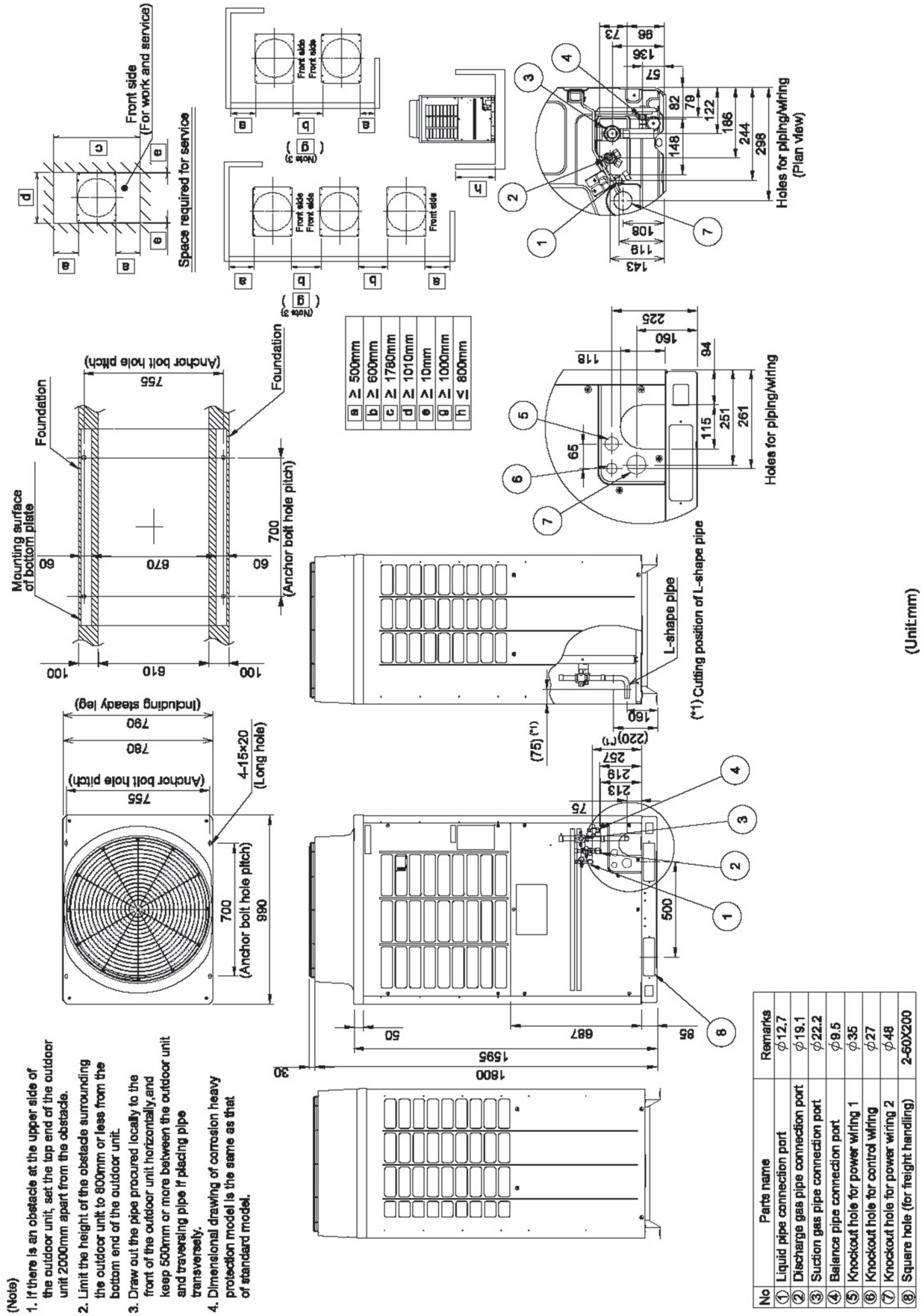
Multi Unit Outdoor Side Connection For Flow Selector

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

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

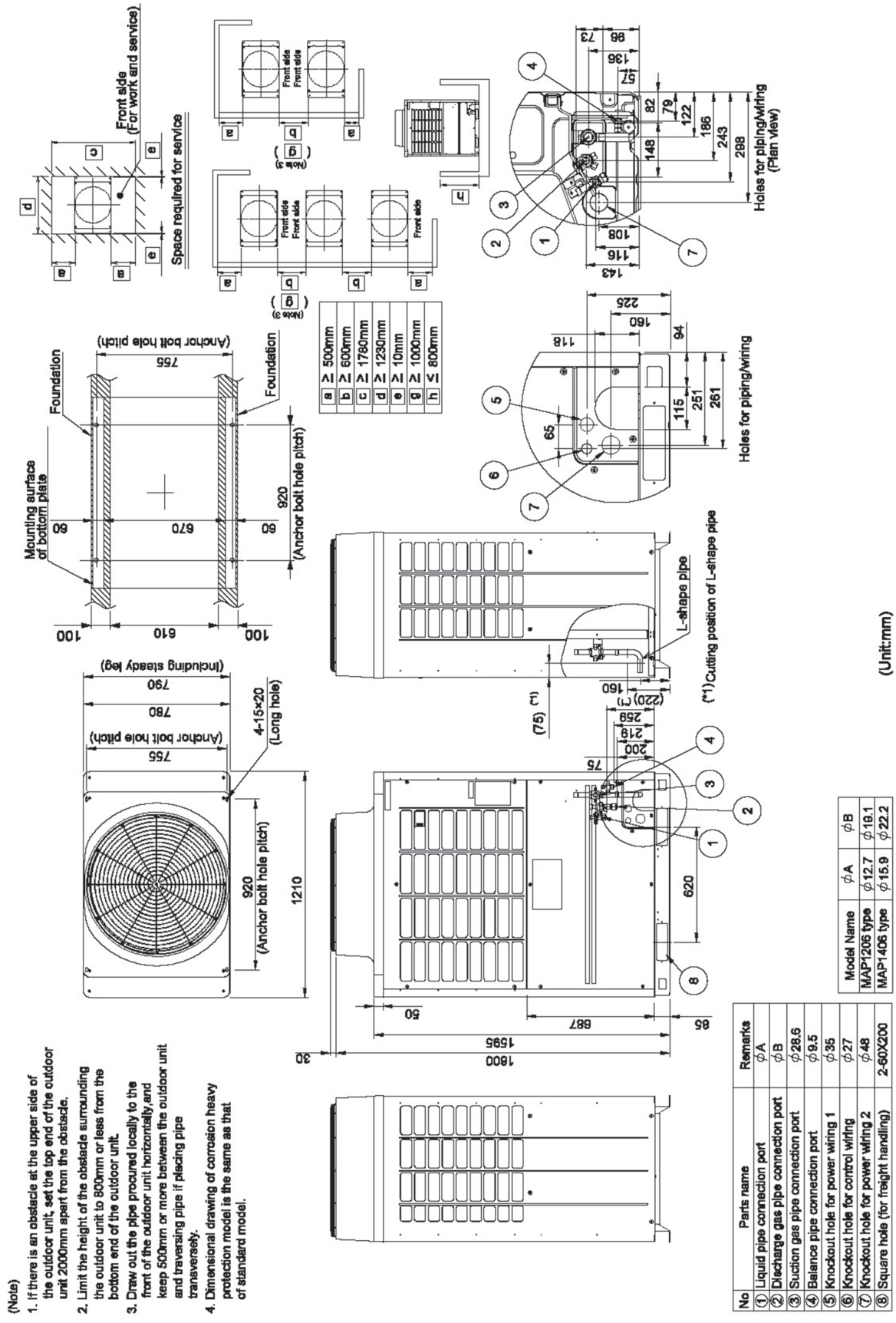


(Note)
1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally,and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

No	Parts name	Remarks
①	Liquid pipe connection port	φ12.7
②	Discharge gas pipe connection port	φ19.1
③	Suction gas pipe connection port	φ22.2
④	Balance pipe connection port	φ9.5
⑤	Knockout hole for power wiring 1	φ35
⑥	Knockout hole for control wiring	φ27
⑦	Knockout hole for power wiring 2	φ48
⑧	Square hole (for freight handling)	2-60X200



Dimensions - MMY-MAP1206FT8P-UK, MMY-MAP1406FT8P-UK



a	≥ 500mm
b	≥ 600mm
c	≥ 1780mm
d	≥ 1230mm
e	≥ 10mm
g	≥ 1000mm
h	≤ 800mm

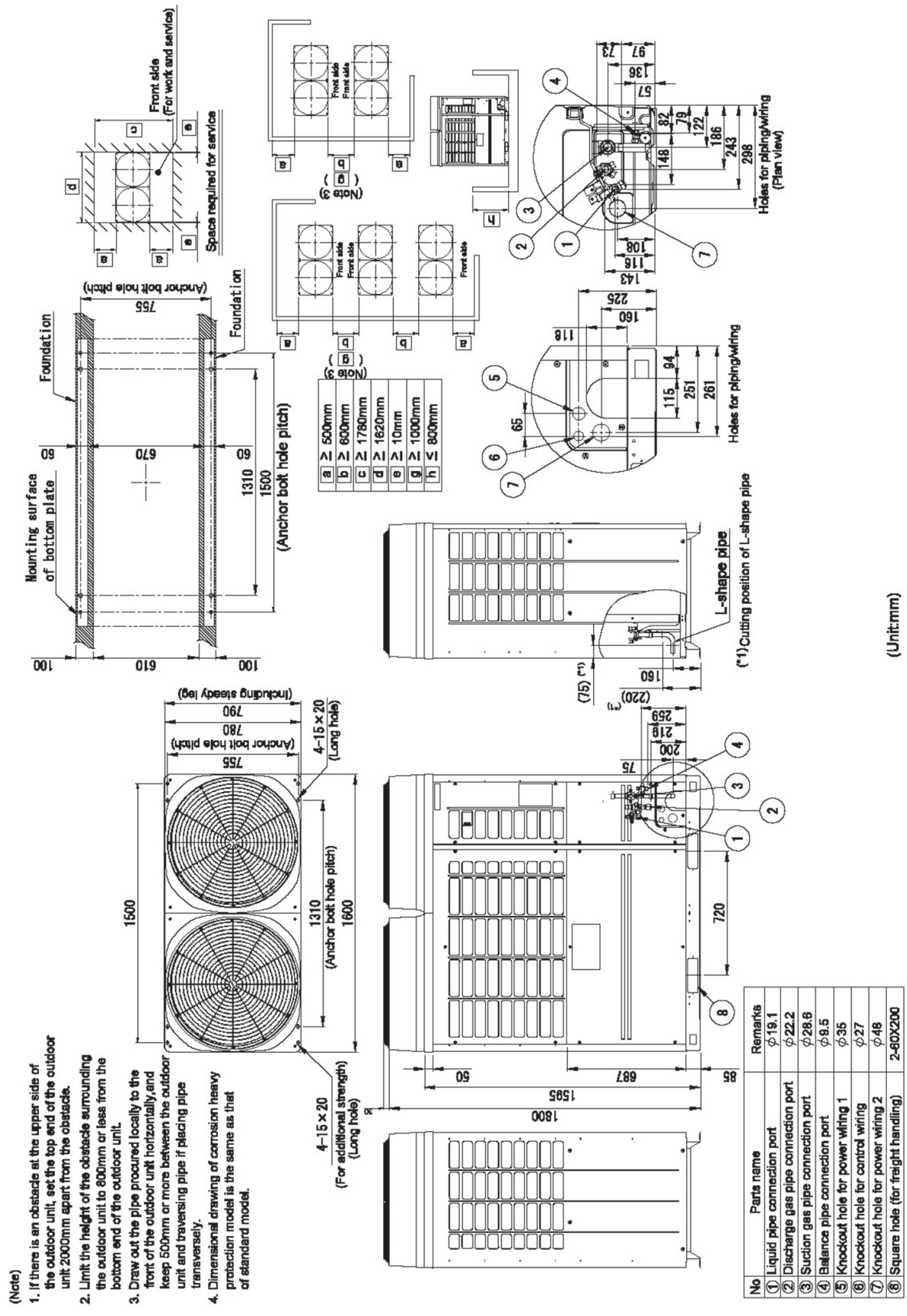
No	Parts name	Remarks
①	Liquid pipe connection port	ϕA
②	Discharge gas pipe connection port	ϕB
③	Suction gas pipe connection port	ϕ28.6
④	Balance pipe connection port	ϕ9.5
⑤	Knockout hole for power wiring 1	ϕ35
⑥	Knockout hole for control wiring	ϕ27
⑦	Knockout hole for power wiring 2	ϕ48
⑧	Square hole (for freight handling)	2-60X200

Model Name	ϕA	ϕB
MAP1206 type	ϕ12.7	ϕ19.1
MAP1406 type	ϕ15.9	ϕ22.2

(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. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. 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 transaversely.
4. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.



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



(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. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. 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.
4. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

No	Parts name	Remarks
①	Liquid pipe connection port	φ19.1
②	Discharge gas pipe connection port	φ22.2
③	Suction gas pipe connection port	φ28.6
④	Balance pipe connection port	φ9.5
⑤	Knockout hole for power wiring 1	φ35
⑥	Knockout hole for control wiring	φ27
⑦	Knockout hole for power wiring 2	φ48
⑧	Square hole (for freight handling)	2-60X200

R22 and R407C replacement technology for MiNi SMMSe, SMMSe and SHRMe

Continuing our commitment to more environmentally-friendly refrigerants our latest generation MiNi SMMSe, SMMSe and SHRMe 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 SMMSe	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) Height Difference Outdoor to Indoor	
SHRMe	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 <3 m	Height >3 <70 m
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) Height Difference Outdoor to Indoor	
SMMSe	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 <3 m	Height >3 <70 m
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.

VRF



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		**MMK-**	**AP0057HP-E**	**AP0077HP-E**	**AP0097HP-E**	**AP0127HP-E**
Air Flow	High - Medium - Low	l/s	124 - 103 - 75	133 - 107 - 75	150 - 110 - 75	150 - 114 - 75
	High - Medium - Low	m^3/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			**€748**	**€759**	**€768**	**€784**

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		**MMK-**	**AP0157HP-E**	**AP0187HP-E**	**AP0247HP-E**
Air Flow	High - Medium - Low	l/s	233 - 192 - 153	250 - 200 - 153	333 - 250 - 167
	High - Medium - Low	m^3/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			**€888**	**€905**	**€998**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	m^3/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	€1,099	€1,121	€1,187	€1,228	€1,281	€1,349

Accessories

RBC-AX32UM(W)-E	Remote Controller	Wireless infra-red controller and receiver	€125
RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	€132
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

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	m^3/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			**€1,201**	**€1,229**	**€1,283**	**€1,311**	**€1,359**

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	m^3/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			**€1,570**	**€1,694**	**€1,778**	**€1,847**	**€2,053**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	€193
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

False ceiling installation

Anti-dust pre-filter

Built-in drain pump

Automatic restart

Louvre control

Multi-split branching

Individual louvre control



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		**MMU-**	**AP0072WH1**	**AP0092WH1**	**AP0122WH1**	**AP0152WH1**	**AP0182WH1**	**AP0242WH1**
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	m^3/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	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			**€1,457**	**€1,496**	**€1,532**	**€1,582**	**€1,801**	**€1,887**

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		**MMU-**	**AP0272WH1**	**AP0302WH1**	**AP0362WH1**	**AP0482WH1**	**AP0562WH1**
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	m^3/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	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			**€2,114**	**€2,131**	**€2,536**	**€2,740**	**€2,965**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	€217
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

False ceiling installation

Anti-dust pre-filter

Built-in drain pump

Automatic restart

Louvre control

Multi-split branching

TOSHIBA



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	m^3/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	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	€1,748	€1,793	€1,839	€1,774	€1,976	€2,078

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	€212
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

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		**MMD-**	**AP0056SPH1-E**	**AP0074SPH1-E**	**AP0094SPH1-E**	**AP0124SPH1-E**
Air Flow	High - Medium - Low	l/s	121 - 111 - 103	150 - 130 - 112	150 - 130 - 112	167 - 145 - 125
	High - Medium - Low	m^3/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			**€829**	**€830**	**€842**	**€865**

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		**MMD-**	**AP0154SPH1-E**	**AP0184SPH1-E**	**AP0244SPH1-E**	**AP0274SPH1-E**
Air Flow	High - Medium - Low	l/s	192 - 167 - 145	217 - 188 - 162	300 - 278 - 250	300 - 278 - 250
	High - Medium - Low	m^3/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			**€900**	**€945**	**€1,021**	**€1,103**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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!!SE remote controller for all models	€274
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

Concealed false ceiling installation | Built-in drain pump | Automatic restart | Multi-split branching

TOSHIBA



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	m^3/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			**€955**	**€927**	**€980**	**€1,009**	**€1,076**	**€1,124**

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	m^3/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			**€1,248**	**€1,331**	**€1,527**	**€1,633**	**€1,734**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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!!SE remote controller for all models	€274
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	MMD-AP007#-018#HP1-E	€133
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	MMD-AP024#-030#BHP1-E	€156
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	MMD-AP036#-056#BHP1-E	€199

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		**MMD-**	**AP0186HP1-E**	**AP0246HP1-E**	**AP0276HP1-E**	**AP0366HP1-E**
Air Flow	Standard	l/s	222	333	333	533
	Upper - Lower	l/s	222 - 153	333 - 222	333 - 222	533 - 372
	Standard	m^3/h	800	1200	1200	1920
	Upper - Lower	m^3/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			**€1,332**	**€1,467**	**€1,532**	**€1,605**

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		**MMD-**	**AP0486HP1-E**	**AP0566HP1-E**	**AP0726HP-E**	**AP0966HP-E**
Air Flow	Standard	l/s	583	666	1055	1333
	Upper - Lower	l/s	583 - 394	667 - 461	1056 - 694	1333 - 972
	Standard	m^3/h	2100	2400	3800	4800
	Upper - Lower	m^3/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			**€1,777**	**€1,901**	**€3,207**	**€3,389**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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!!SE remote controller for all models	€274
TCB-PCUC2E	Indoor Control Interface	Application control kit	€132
TCB-LK801D-E	Filter Kit	Long Life Filter Kit MMD-AP018#-027#BHP1-E	€67
TCB-LK1401D-E	Filter Kit	Long Life Filter Kit MMD-AP036#-056#BHP1-E	€86

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	m^3/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			**€543**	**€543**	**€543**	**€543**	**€543**	**€543**
INDOOR UNIT			**€955**	**€927**	**€980**	**€1,009**	**€1,076**	**€1,124**
INDOOR RETAIL PRICE			**€1,498**	**€1,470**	**€1,523**	**€1,552**	**€1,619**	**€1,667**

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	m^3/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			**€543**	**€543**	**€543**	**€543**	**€543**
INDOOR UNIT			**€1,248**	**€1,331**	**€1,527**	**€1,633**	**€1,734**
INDOOR RETAIL PRICE			**€1,791**	**€1,874**	**€2,070**	**€2,176**	**€2,277**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€274
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	€10
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	€82
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	MMD-AP007#-018#HP1-E	€133
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	MMD-AP024#-030#BHP1-E	€156
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	MMD-AP036#-056#BHP1-E	€199



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		**MMC-**	**AP0158HP-E**	**AP0188HP-E**	**AP0248HP-E**	**AP0278HP-E**
Air Flow	High - Medium - Low	l/s	233 - 200 - 150	267 - 200 - 150	400 - 283 - 217	400 - 283 - 217
	High - Medium - Low	m^3/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			**€1,360**	**€1,503**	**€1,593**	**€1,608**

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		**MMC-**	**AP0368HP-E**	**AP0488HP-E**	**AP0568HP-E**
Air Flow	High - Medium - Low	l/s	517 - 383 - 283	517 - 433 - 333	567 - 467 - 350
	High - Medium - Low	m^3/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			**€1,631**	**€1,659**	**€1,776**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	€132
RBC-AX33CE	Ceiling Receiver	Replacement receiver and remote controller	€212
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

Ceiling installation Drain connection both sides Automatic restart Multi-split branching

TOSHIBA





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		**MML-**	**AP0074BH1-E**	**AP0094BH1-E**	**AP0124BH1-E**	**AP0154BH1-E**	**AP0184BH1-E**	**AP0244BH1-E**
Air Flow	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	m^3/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			€1,013	€1,038	€1,070	€1,119	€1,190	€1,237

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		**MML-**	**AP0074H1-E**	**AP0094H1-E**	**AP0124H1-E**	**AP0154H1-E**	**AP0184H1-E**	**AP0244H1-E**
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	m^3/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	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			€1,214	€1,244	€1,274	€1,339	€1,421	€1,484

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	€82

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		**MML-**	**AP0074NH1-E**	**AP0094NH1-E**	**AP0124NH1-E**	**AP0154NH1-E**	**AP0184NH1-E**
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	m^3/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	€1,275	€1,373	€1,472	€1,571	€1,631

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	€82

Floor-mounted bi-flow

Automatic restart

Multi-split branching

TOSHIBA



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	m^3/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			**€1,669**	**€1,771**	**€1,848**	**€1,902**

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	m^3/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			**€1,958**	**€2,057**	**€2,160**

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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	€82

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		**MMD-**	**AP0481HFE**	**AP0721HFE**	**AP0961HFE**
Air Flow	Standard	l/s	300	467	583
	Upper - Lower	l/s	333 - 217	517 - 333	650 - 417
	Standard	m^3/h	1080	1680	2100
	Upper - Lower	m^3/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	€2,506	€4,148	€4,383

Accessories

RBC-AMT32E	Remote Controller	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
RBC-SMCN61	ON/OFF And Locking Lead	Lead to remotely switch a unit ON/OFF and to lock this function	€10
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 SMMSe only. Maximum connected capacity 30% of outdoor capacity.

Concealed false ceiling installation

Automatic restart

Multi-split branching

TOSHIBA



VRF Hot Water Module Indoor Unit

The VRF Hot Water Module enables the production of hot water from a standard VRF SMMSe and SHRMe 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-**	**AP0271LQ-E**	**AP0561LQ-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
	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		**MMW-**	**AP0271LQ-E**	**AP0561LQ-E**
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
	Design Pressure	mPa	3.73	3.73
	Design Pressure	mPa	1	1
	Nominal Flow Rate	l/min	22.9	45.8
	Minimum Flow Rate	l/min	19.5	38.9
	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	€3,003	€3,079

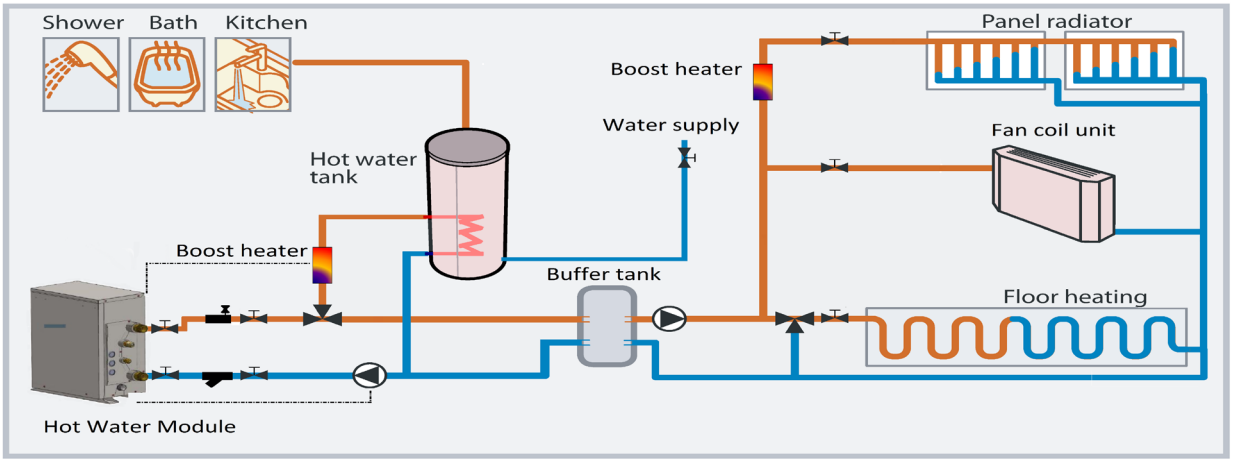
Hot water production | Automatic restart | Multi-split branching

Minimum diversity is 70% when Hot Water Module MMW is connected to SMMSe

8 hp	10 hp	12 hp	14 hp	16 hp	18 hp	20 hp	22 hp	24 hp	26 hp	28 hp	30 hp	32 hp	34 hp	36 hp	38 hp	40 hp	42 hp	44 hp	46 hp	48 hp
96%	90%	86%	83%	81%	79%	78%	76%	75%	75%	74%	73%	73%	72%	72%	72%	71%	71%	71%	70%	70%

Minimum diversity 65%, combination FCU connection with HWM

Calculation Diversity (Indoor Air Conditioner hp (min.65%) + HWM/Outdoor hp
Example 48 hp: (31.2 hp + 3 hp)/48 hp = 70.2%





VRF High Temperature Hot Water Module Indoor Unit

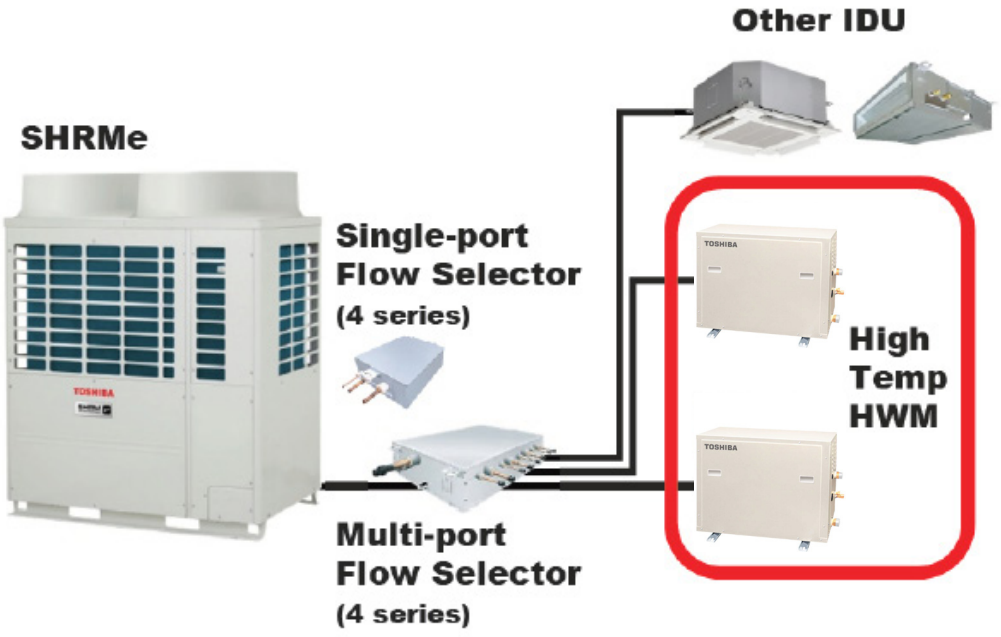
The VRF High Temperature Hot Water Module enables the production of hot water from a standard VRF SHRMe system using waste heat that would normally be exhausted to the atmosphere. The High Temperature Hot Water Module available in 4.5 hp configuration is capable of providing 14 kW of heating to generate 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		**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
	Nominal Flow Rate	l/min	40.0
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-5
INDOOR RETAIL PRICE			€6,614

Hot water production

Automatic restart

Multi-split branching



TOSHIBA



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	m^3/min	30	37	40	45	48
	Standard Air Flow	m^3/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)	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	Finned tube
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
	Compressor Power	kW	0.75	1.1	1.1	1.6	1.6
	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	630 x 800 x 300
	Total Weight	kg	29	34	40	44	47
Refrigerant	Control		Pulse motor valve	Pulse motor valve	Pulse motor valve	Pulse motor valve	Pulse motor valve
	Gas Type		R32	R32	R32	R32	R32
	Base Charge/Chargeless To	kg/m	0.63/15	0.9/15	0.9/20	1.3/20	2.0/20
	Additional Charge Main Liquid Side	g/m	20	20	20	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	R22, R407C, R410A, R417A, R134a, R12
Pipe Connections	Min.-Max. Length	m	2-20	2-20	5-30	5-30	5-30
	Height Difference Outdoor To AHU	m	±10	±10	±30	±30	±30
	Gas Side	inch	3/8	1/2	1/2	5/8	5/8
	Liquid Side	inch	1/4	1/4	1/4	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	220-240/1/50	220-240/1/50
	Maximum Run Current	A	4.17	5.60	7.31	10.40	12.81
	Suggested Fused Supply	A	10	10	16	16	20

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	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	2.5	3.6	5.6	8.0	8.0
	Heating	kW	3.4	4.0	6.3	9.0	9.0
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7	4 - 7
	Suction Superheat (Target)	K	5	5	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m^3/h	480 - 720	480 - 880	480 - 1100	700 - 1500	700 - 1500
	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	4 - 6	6 - 8	6 - 8
	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	**€545**	**€545**	**€545**	**€545**	**€545**
OUTDOOR RETAIL PRICE	**€721**	**€863**	**€1,029**	**€1,357**	**€1,493**
SYSTEM RETAIL PRICE	**€1,266**	**€1,408**	**€1,574**	**€1,902**	**€2,038**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	€407
RBC-TSI1	Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82



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
	Standard Air Flow	m^3/min	68	68	70	70
	Standard Air Flow	m^3/h	4080	4080	4200	4200
Sound	Pressure Level C/H	dB(A)	54/57	54/57	55/57	55/57
	Power Level C/H	dB(A)	70/74	70/74	70/74	70/74
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	3.0	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	220-240/1/50
	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	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.	m^3/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	€545	€545	€545	€545
OUTDOOR RETAIL PRICE	€1,785	€2,159	€1,881	€2,276
SYSTEM RETAIL PRICE	€2,330	€2,704	€2,426	€2,821

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	€407
RBC-TSI1	Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82



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

CODE			140	140	200	250
Outdoor Unit		**RAV-**	**GM1601ATP-E**	**GM1601AT8P-E**	**GM2241AT8-E**	**GM2801AT8-E**
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	m^3/min	115	115	153	182
	Standard Air Flow	m^3/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	5-60	5-60
	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	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.	m^3/h	1260 - 2500	1260 - 2500	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	**€545**	**€545**	**€545**	**€545**
OUTDOOR RETAIL PRICE	**€2,536**	**€2,818**	**€4,271**	**€4,278**
SYSTEM RETAIL PRICE	**€3,081**	**€3,363**	**€4,816**	**€4,823**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	€407
RBC-TSI1	Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

APPLIED



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

CODE			50	71	100	100
Outdoor Unit		**RAV-**	**GP561ATP-E**	**GP801AT-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
	Standard Air Flow	l/s	625	883	1933	1683
	Standard Air Flow	m³/min	38	53	116	101
	Standard Air Flow	m³/h	2250	3180	6960	6060
Sound	Pressure Level C/H	dB(A)	46/48	46/48	49/50	49/50
	Power Level C/H	dB(A)	63/65	63/65	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
	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
	Total Weight	kg	45	74	104	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
	Additional Charge Main Liquid Side	g/m	20	35	35	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
Pipe Connections	Min.-Max. Length	m	3-50	3-50	3-75	3-75
	Height Difference Outdoor To AHU	m	±30	±30	±30	±30
	Gas Side	inch	1/2	5/8	5/8	5/8
	Liquid Side	inch	1/4	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	220-240/1/50	220-240/1/50	380-415/3/50
	Maximum Run Current	A	6.33	8.56	11.20	4.52
	Suggested Fused Supply	A	16	16	20	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	220-240/1/50
	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	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	4.0	5.6	8.0	12.0
	Heating	kW	5.0	8.1	11.3	13.0
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7
	Suction Superheat (Target)	K	5	5	5.00	5.00
Heat Exchanger	Air Volume Min. - Max.	m³/h	480 - 880	480 - 1100	700 - 1500	1260 - 2500
	Coil Pipe Diameter	mm - ”	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
	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	**€545**	**€545**	**€545**	**€545**
OUTDOOR RETAIL PRICE	**€1,474**	**€2,136**	**€2,660**	**€2,822**
SYSTEM RETAIL PRICE	**€2,019**	**€2,681**	**€3,205**	**€3,367**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	€407
RBC-TSI1	Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

TOSHIBA



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

CODE			125	125	125
Outdoor Unit		**RAV-**	**GP1401AT-E**	**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	m^3/min	116	103	103
	Standard Air Flow	m^3/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	Control		Pulse motor valve	Pulse motor valve	Pulse motor valve
	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		**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	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.	m^3/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			**€545**	**€545**	**€545**
OUTDOOR RETAIL PRICE			**€2,923**	**€2,947**	**€3,136**
SYSTEM RETAIL PRICE			**€3,468**	**€3,492**	**€3,681**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	€407
RBC-TSI1	Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

APPLIED



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	m^3/min	103	153	182
	Standard Air Flow	m^3/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
	Replacement Technology	Yes	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12
Pipe Connections	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.	m^3/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			**€545**	**€545**	**€545**
OUTDOOR RETAIL PRICE			**€2,960**	**€5,063**	**€5,070**
SYSTEM RETAIL PRICE			**€3,505**	**€5,608**	**€5,615**

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

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	€407
RBC-TSI1	Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82

TOSHIBA

APPLIED



VRF Air Handling Unit Applications Single-Circuit DX Coils

CODE			56	71	80	112
Model Name Heat Pump		**MCY-**	-	-	-	**MHP0404HS-E**
System Capacity		**hp**	**2**	**2.5**	**3**	**4**
Control Panel		**MM-**	**DXC010**	**DXC010**	**DXC010**	**DXC010**
Type			**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
	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
	Wired Controller		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
	Run Indication Contact Rating		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
	Fan Interlock Input	V	0	0	0	0
	Remote ON/OFF Lock Input	V	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6
DX Coil Valve Kit Header		**MM-**	**DXV080**	**DXV080**	**DXV080**	**DXV140**
AHU DX Coil Design (Third Party Supply)			**AHU DX COIL**	**AHU DX COIL**	**AHU DX COIL**	**AHU DX COIL**
Capacity	Cooling Capacity	kW	5.6	7.1	8.0	11.2
	Heating Capacity	kW	6.3	8.0	9.0	12.5
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5
	Suction Superheat (Target)	K	5	5	5	5
	Condensing Temperature	°C	52	52	52	52
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow
	Air Volume Min. - Max.	l/s	200 - 300	300 - 433	300 - 433	350 - 533
	Air Volume Min. - Max.	m^3/min	12 - 18	18 - 26	18 - 26	21 - 32
	Air Volume Min. - Max.	m^3/hr	720 - 1080	1060 - 1580	1060 - 1580	1280 - 1920
	Coil Volume	cm^3	850 - 1150	1063 - 1438	1275 - 1725	1700 - 2300
	Coil Diameter	mm - "	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
	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
OUTDOOR UNIT(S)			-	-	-	**€4,146**
DXC010 CONTROL PANEL			**€700**	**€700**	**€700**	**€700**
DX COIL VALVE KITS			**€328**	**€328**	**€328**	**€328**
CONTROL PANEL & VALVES RETAIL PRICE			**€1,028**	**€1,028**	**€1,028**	**€5,174**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	€407
RBC-TSI1	Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82



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

CODE			140	160	224	280
SMMSe 2-Pipe VRF Outdoor Model		**M(C)MY-**	**MHP0504HS-E**	**MHP0604HS-E**	**MAP0806HT8P-E**	**MAP1006HT8P-E**
System Capacity		**hp**	**5**	**6**	**8**	**10**
Control Panel		**MM-**	**DXC010**	**DXC010**	**DXC010**	**DXC010**
Type			**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
	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
	Wired Controller		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
	Run Indication Contact Rating		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
	Fan Interlock Input	V	0	0	0	0
	Remote ON/OFF Lock Input	V	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6
DX Coil Valve Kit Header		**MM-**	**DXV140**	**DXV140**	**DXV280**	**DXV280**
AHU DX Coil Design (Third Party Supply)			**AHU DX COIL**	**AHU DX COIL**	**AHU DX COIL**	**AHU DX COIL**
Capacity	Cooling Capacity	kW	14.0	16.0	22.4	28.0
	Heating Capacity	kW	16.0	18.0	25.0	31.5
Design	Evaporating Temperature Range	°C	6.5	6.5	6.5	6.5
	Suction Superheat (Target)	K	5	5	5	5
	Condensing Temperature	°C	52	52	52	52
Heat Exchanger	Type		Counter flow	Counter flow	Counter flow	Counter flow
	Air Volume Min. - Max.	l/s	467 - 700	517 - 1033	800 - 1200	933 - 1400
	Air Volume Min. - Max.	m^3/min	28 - 42	31 - 62	48 - 72	56 - 84
	Air Volume Min. - Max.	m^3/hr	1680 - 2520	1850 - 3740	2880 - 4320	3360 - 5040
	Coil Volume	cm^3	2125 - 2875	2550 - 3450	3400 - 4600	4250 - 5750
	Coil Diameter	mm - "	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
	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
OUTDOOR UNIT(S)			**€4,886**	**€5,262**	**€7,249**	**€7,938**
DXC010 CONTROL PANEL			**€688**	**€688**	**€688**	**€688**
DX COIL VALVE KITS			**€399**	**€399**	**€399**	**€399**
CONTROL PANEL & VALVES RETAIL PRICE			**€5,973**	**€6,349**	**€8,336**	**€9,025**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-FDP3-PE	Control Interface	Interface to enable 0-10 V or resistance-based BMS (inc. Modbus functionality)	€407
RBC-TSI1	Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space	€82



VRF Air Handling Unit Applications Multi-Circuit DX Coils

CODE			320	384	448	504	560
Combination		MMY-					
SMMSe 2-Pipe VRF Outdoor Model		MMY-	MAP1206HT8P-E	MAP1406HT8P-E	MAP1606HT8P-E	MAP1806HT8P-E	MAP2006HT8P-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
	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-	-	-	-	-	-
	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
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	6	6	6	6
DX COIL VALVE KIT	HEADER CIRCUIT 1	MM-	DXV140	DXV280	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 2	MM-	DXV140	DXV140	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
Capacity	Cooling Capacity	kW	32.0	38.4	44.8	50.4	56.0
	Heating Capacity	kW	36.0	43.0	50.0	56.5	63.0
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		2	2	2	2	2
	Air Volume Min. - Max.	l/s	1028 - 2078	1314 - 2239	1600 - 2400	1733 - 2600	1867 - 2800
	Air Volume Min. - Max.	m^3/min	62 - 125	79 - 134	96 - 144	104 - 156	112 - 168
	Air Volume Min. - Max.	m^3/hr	3700 - 7480	4730 - 8060	5760 - 8640	6240 - 9360	6720 - 10080
	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	cm^3	2550 - 3450	2975 - 4025	3400 - 4600	3825 - 5175	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 2	Coil Volume	cm^3	2550 - 3450	2975 - 4025	3400 - 4600	3825 - 5175	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	8 - 12	10 - 12	10 - 12	10 - 12
Circuit 3	Coil Volume	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 4	Coil Volume	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 5	Coil Volume	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 6	Coil Volume	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
OUTDOOR UNIT(s)			**€9,545**	**€11,308**	**€12,190**	**€13,170**	**€14,036**
DXC010 HEADER CONTROL PANEL			**€700**	**€700**	**€700**	**€700**	**€700**
DXC012 FOLLOWER PANEL			**€524**	**€524**	**€524**	**€524**	**€524**
DX COIL VALVE KITS			**€656**	**€656**	**€656**	**€656**	**€656**
VRF AHU PACKAGE (EXCLUDING DX COIL)			**€11,425**	**€13,188**	**€14,070**	**€15,050**	**€15,916**

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



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

CODE			608	672	728	784	840
Combination		**MMY-**		**AP2416HT8P-E**	**AP2616HT8P-E**	**AP2816HT8P-E**	**AP3016HT8P-E**
SMMSe 2-Pipe VRF Outdoor Model		**MMY-**	**MAP2206HT8P-E**	**MAP1206HT8P-E MAP1206HT8P-E**	**MAP1406HT8P-E MAP1206HT8P-E**	**MAP1606HT8P-E MAP1206HT8P-E**	**MAP1606HT8P-E MAP1406HT8P-E**
System Capacity		**hp**	**12**	**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
	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-	-	-	-	-	-
	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 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
	FOLLOWER CIRCUIT 2	MM-	DXV280	DXV280	DXV280	DXV280	DXV280
	FOLLOWER CIRCUIT 3	MM-	DXV140	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	60.8	67.2	72.8	78.4	84.0
	Heating Capacity	kW	68.0	75.0	81.5	88.0	94.5
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		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.	m^3/min	127 - 206	144 - 216	152 - 228	160 - 240	168 - 252
	Air Volume Min. - Max.	m^3/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	cm^3	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	cm^3	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	cm^3	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	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 5	Coil Volume	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 6	Coil Volume	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
OUTDOOR UNIT(s)			**€14,963**	**€19,090**	**€20,853**	**€21,735**	**€23,498**
DXC010 HEADER CONTROL PANEL			**€700**	**€700**	**€700**	**€700**	**€700**
DXC012 FOLLOWER PANEL			**€1,048**	**€1,048**	**€1,048**	**€1,048**	**€1,048**
DX COIL VALVE KITS			**€984**	**€984**	**€984**	**€984**	**€984**
VRF AHU PACKAGE (EXCLUDING DX COIL)			**€17,695**	**€21,822**	**€23,585**	**€24,467**	**€26,230**

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

TOSHIBA



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

CODE			896	952	1008	1064	1120
Combination		MMY-	AP3216HT8P-E	AP3416HT8P-E	AP3616HT8P-E	AP3816HT8P-E	AP4016HT8P-E
SMMSe 2-Pipe VRF Outdoor Model		MMY-	MAP1606HT8P-E MAP1606HT8P-E	MAP1806HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP2006HT8P-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)	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	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	89.6	95.2	100.8	106.4	112.0
	Heating Capacity	kW	100.0	106.5	113.0	119.5	126.0
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.	m^3/min	192 - 288	200 - 300	208 - 312	216 - 324	224 - 336
	Air Volume Min. - Max.	m^3/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	cm^3	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	cm^3	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	cm^3	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	cm^3	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	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
Circuit 6	Coil Volume	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
OUTDOOR UNIT(s)			€24,380	€25,360	€26,226	€27,153	€28,072
DXC010 HEADER CONTROL PANEL			€700	€700	€700	€700	€700
DXC012 FOLLOWER PANEL			€1,572	€1,572	€1,572	€1,572	€1,572
DX COIL VALVE KITS			€1,312	€1,312	€1,312	€1,312	€1,312
VRF AHU PACKAGE (EXCLUDING DX COIL)			€27,964	€28,944	€29,810	€30,737	€31,656

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



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

CODE			1176	1232	1288	1344	1404
Combination		**MMY-**	**AP4216HT8P-E**	**AP4416HT8P-E**	**AP4616HT8P-E**	**AP4816HT8P-E**	**AP5016HT8P-E**
SMMSe 2-Pipe VRF Outdoor Model		**MMY-**	**MAP2206HT8P-E MAP2006HT8P-E**	**MAP2206HT8P-E MAP2206HT8P-E**	**MAP1606HT8P-E MAP1606HT8P-E MAP1406HT8P-E**	**MAP1606HT8P-E MAP1606HT8P-E MAP1606HT8P-E**	**MAP1806HT8P-E MAP1606HT8P-E MAP1606HT8P-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
	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 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	117.6	123.2	128.8	134.4	140.4
	Heating Capacity	kW	131.5	138.0	144.5	151.0	156.0
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		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.	m^3/min	248 - 372	256 - 384	264 - 396	272 - 408	280 - 420
	Air Volume Min. - Max.	m^3/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
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15	4.15
Circuit 1	Coil Volume	cm^3	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
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 2	Coil Volume	cm^3	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
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 3	Coil Volume	cm^3	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
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 4	Coil Volume	cm^3	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
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 5	Coil Volume	cm^3	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
	Paths	No.	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12
Circuit 6	Coil Volume	cm^3	-	-	-	-	-
	Coil Diameter	mm - "	-	-	-	-	-
	Paths	No.	-	-	-	-	-
OUTDOOR UNIT(s)			**€28,998**	**€29,925**	**€35,688**	**€36,570**	**€37,550**
DXC010 HEADER CONTROL PANEL			**€700**	**€700**	**€700**	**€700**	**€700**
DXC012 FOLLOWER PANEL			**€2,096**	**€2,096**	**€2,096**	**€2,096**	**€2,096**
DX COIL VALVE KITS			**€1,640**	**€1,640**	**€1,640**	**€1,640**	**€1,640**
VRF AHU PACKAGE (EXCLUDING DX COIL)			**€33,434**	**€34,361**	**€40,124**	**€41,006**	**€41,986**

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

TOSHIBA



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

CODE			1460	1515	1570	1625	1680
Combination		MMY-	AP5216HT8P-E	AP5416HT8P-E	AP5616HT8P-E	AP5816HT8P-E	AP6016HT8P-E
SMMSe 2-Pipe VRF Outdoor Model		MMY-	MAP2006HT8P-E MAP1606HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP1606HT8P-E MAP1606HT8P-E	MAP2006HT8P-E MAP2006HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP2006HT8P-E MAP1606HT8P-E	MAP2206HT8P-E MAP2206HT8P-E MAP1606HT8P-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)	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	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	146.0	151.5	157.0	162.5	168.0
	Heating Capacity	kW	163.0	164.0	176.0	177.0	178.0
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		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.	m^3/min	304 - 456	312 - 468	288 - 482	328 - 492	336 - 504
	Air Volume Min. - Max.	m^3/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
Circuit 1	Coil Volume	cm^3	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	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	cm^3	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	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	cm^3	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	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	cm^3	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	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	cm^3	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	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 6	Coil Volume	cm^3	3683 - 4983	3825 - 5175	3967 - 5367	4108 - 5558	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
OUTDOOR UNIT(s)			€38,416	€39,343	€40,262	€41,188	€42,115
DXC010 HEADER CONTROL PANEL			€700	€700	€700	€700	€700
DXC012 FOLLOWER PANEL			€2,620	€2,620	€2,620	€2,620	€2,620
DX COIL VALVE KITS			€1,968	€1,968	€1,968	€1,968	€1,968
VRF AHU PACKAGE (EXCLUDING DX COIL)			€43,704	€44,631	€45,550	€46,476	€47,403

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



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
	Digital Inverter R32	RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E	GM801ATP-E
	Super Digital Inverter R32	RAV-	-	-	GP561ATP-E	GP801AT-E
	Digital Inverter R410A	RAV-	-	-	-	-
Cooling Min.-Max.	Digital Inverter R32	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 7.4
	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
Heating Min.-Max.	Digital Inverter R32	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0
	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
Pipe Connections	Gas Pipe	mm - "	9.5 (3/8)	12.7 (1/2)	12.7 (1/2)	9.5 - 3/8
	Liquid Pipe	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.	m^3/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
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15

RBC-DXC031 CONTROL PANEL	€889	€889	€889	€889
DIGITAL INVERTER R32	€721	€863	€1,029	€1,357
SYSTEM RETAIL PRICE	€1,610	€1,752	€1,918	€2,246

RBC-DXC031 CONTROL PANEL	-	-	€889	€889
SUPER DIGITAL INVERTER R32	-	-	€1,474	€2,136
SYSTEM RETAIL PRICE	-	-	€2,363	€3,025

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
	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-	-	-	--	-
Cooling Min.-Max.	Digital Inverter R32	kW	1.9 - 8.8	3.0 - 11.2	3.0 - 13.2	3.0 - 16.0
	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	-
Heating Min.-Max.	Digital Inverter R32	kW	1.8 - 9.9	3.0 - 13.0	3.0 - 16.0	3.0 - 18.0
	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	-
Pipe Connections	Gas Pipe	mm - "	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	15.9 (5/8)
	Liquid Pipe	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.	m^3/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	€889	€889	€889	€889
DIGITAL INVERTER R32	€1,493	€1,785	€1,881	€2,536
SYSTEM RETAIL PRICE	€2,382	€2,674	€2,770	€3,425

RBC-DXC031 CONTROL PANEL	-	€889	€889	€889
SUPER DIGITAL INVERTER R32	-	€2,660	€2,923	€3,136
SYSTEM RETAIL PRICE	-	€3,549	€3,812	€4,025

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
	Digital Inverter R32	RAV-	-	GM2241AT8-E	GM2801AT8-E
	Super Digital Inverter R32	RAV-	-	-	-
	Digital Inverter R410A	RAV-	SM1603AT-E1	SM2246AT8-E	SM2806AT8-E
Cooling Min.-Max.	Digital Inverter R32	kW		4.6 - 22.4	4.6 - 27.0
	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		
Heating Min.-Max.	Digital Inverter R32	kW		4.6 - 25.0	4.6 - 31.5
	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		
Pipe Connections	Gas Pipe	mm - "	15.9 - 5/8	28.6 - 1-1/8	28.6 - 1-1/8
	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.	m^3/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	-	€889	€889
DIGITAL INVERTER R32	-	€5,063	€5,070
SYSTEM RETAIL PRICE	-	€5,160	€5,167

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

RBC-DXC031 CONTROL PANEL	€889	€889	€889
DIGITAL INVERTER R410A	€2,960	€5,063	€5,070
SYSTEM RETAIL PRICE	€3,849	€5,952	€5,959

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



Air Handling Unit 0-10 V BMS Control - SMMSe

Outdoor Unit		hp	8.0	10.0
	SMMSe	MMY-	MAP0806HT8P-E	MAP1006HT8P-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.	m^3/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	€889	€889
MM-DXV281 CONTROL PANEL	€201	€201
SMMSe OUTDOOR UNIT	€7,733	€8,342
SYSTEM RETAIL PRICE	€8,823	€9,432

APPLIED






VRF Air Curtains

CODE			80	80	112	112	140	140	160	160	140
Air Curtain Model		**RAV-**	**CT101***M**	**CT101***L**	**CT151***M**	**CT151***L**	**CT201***M**	**CT201***L**	**CT251***M**	**CT251***L**	**SM2000DH-FS-VRF**
Capacity Code		**hp**	**3**	**3**	**4**	**4**	**5**	**5**	**6**	**6**	**5**
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	611
	Standard	m^3/h	1600	2210	2400	2950	3200	4420	4000	5160	2200
	Power Input Indoor	kW	0.35	0.53	0.53	0.70	0.70	1.05	0.88	1.23	0.66
Door	Width	mm	1000	1000	1500	1500	2000	2000	2500	2500	2000
	Maximum Height	m	3.0	3.2	3.0	3.2	3.0	3.2	3.0	3.2	3.2
Sound	Pressure Level M	dB(A)	54	55	55	56	56	57	57	58	54
	Power Level M	dB(A)	69	70	70	71	71	72	72	73	69

Free-Hanging Type		**RAV-**	**CT101CH-M**	**CT101CH-L**	**CT151CH-M**	**CT151CH-L**	**CT201CH-M**	**CT201CH-L**	**CT251CH-M**	**CT251CH-L**	**SM2000DH-FS-VRF**
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	260 x 2710 x 490	320 x 2340 x 550
	Weight	kg	48	51	77	80	101	107	132	138	90
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	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	220-240/1/50
	Suggested Fused Supply	A	10	10	10	10	10	16	10	16	10

Cassette Type		**RAV-**	**CT101UH-M**	**CT101UH-L**	**CT151UH-M**	**CT151UH-L**	**CT201UH-M**	**CT201UH-L**	**CT251UH-M**	**CT251UH-L**	-
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		**RAV-**	**CT101BH-M**	**CT101BH-L**	**CT151BH-M**	**CT151BH-L**	**CT201BH-M**	**CT201BH-L**	**CT251BH-M**	**CT251BH-L**	**SM2000DH-FS-VRF**
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	320 x 2340 x 550
	Weight	kg	71	74	105	108	129	135	170	176	90
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	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	220-240/1/50
	Suggested Fused Supply	A	10	10	10	10	10	16	10	16	10

INDOOR RETAIL PRICE	**CT***CH-***	**€6,757**	**€7,490**	**€8,272**	**€8,646**	**€9,331**	**€10,457**	**€10,468**	**€10,907**	**-**
INDOOR RETAIL PRICE	**CT***UH-***	**€7,026**	**€7,915**	**€8,332**	**€8,871**	**€9,452**	**€10,531**	**€10,537**	**€11,553**	**-**
INDOOR RETAIL PRICE	**CT***BH-***	**€7,710**	**€7,762**	**€9,072**	**€9,442**	**€9,798**	**€10,642**	**€10,959**	**€11,880**	**-**
INDOOR RETAIL PRICE	**SM2000***									**€13,179**
INDOOR RETAIL PRICE (inc. RBC-FMC2)	**SM2000***									**€13,340**

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€76
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
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	€93
RBC-SMIM3	Indicator Module ON/OFF And Stopping Fault	Interface to indicate unit operation and stopping fault	€89
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	€99
RBC-FMC2	Flush Mount Collar Kit (for Fre-sh-air model)	Enables air curtain to be mounted in void space	€161

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

TOSHIBA

APPLIED



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	m^3/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			€9,458	€9,897
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			€9,527	€10,543
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			€9,949	€10,870

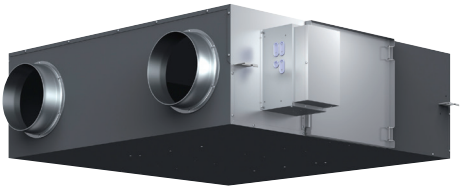
Outdoor Unit		**RAV-**	**SM1603AT-E1**
Heating Capacity Range (Min. - Max.)		kW	3.0 - 18.0
Ambient Operating Range Cooling/Heating		°C	43 to -15/15 to -15
Air Flow	Standard Air Flow	l/s	1717
	Standard Air Flow	m^3/h	6180
Sound	Pressure Level C/H	dB(A)	51/53
	Power Level C/H	dB(A)	68/70
Unit	Height x 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			€2,960

SYSTEM RETAIL PRICE	CT***CH-*	€12,418	€12,857
SYSTEM RETAIL PRICE	CT***UH-*	€12,487	€13,503
SYSTEM RETAIL PRICE	CT***BH-*	€12,909	€13,830

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual	€62
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit	€12
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller	€93
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	€99
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	€86

APPLIED



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	m^3/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	0.93 - 0.8 - 0.78	0.99 - 0.79 - 0.69	0.94 - 0.75 - 0.76	0.86 - 0.7 - 0.66
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
Electrical	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
	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			€1,288	€1,326	€1,523	€1,845

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	m^3/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
Electrical	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
	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			€2,049	€2,401	€2,665	€5,059	€5,560

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	€106
RBC-AMT32E	Remote Controller Built-In Timer	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
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	€62
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M Heater Kit	€463
RBC-VNMC-HE1	Heater Kit Controller	Control for VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1 (heater procured locally)	€354
RBC-VNMH1-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	€409
RBC-VNMH2-PE	150 mm Heater Kit 1 kW	VN-M250HE and VN-M350HE Heat Exchanger	€420
RBC-VNMH3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500HE and VN-M650HE Heat Exchanger	€474
RBC-VNMH4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800HE and VN-M1000HE1 Heat Exchanger	€485
TCB-PCUC2E	Indoor Control Interface	Application control kit (use with VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1)	€132

TOSHIBA

APPLIED



VRF Air-to-Air Heat Exchangers + DX Coil

CODE			41	65	82
Air-to-Air Heat Exchanger		**MMD-**	**VN502HEX1E**	**VN802HEX1E**	**VN1002HEX1E**
Combinations				**SMMSe - SHRMe - MiNi SMMSe**	
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	m^3/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	m^3/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	2.3 - 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			**€4,099**	**€5,973**	**€6,822**

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	€106
RBC-AMT32E	Remote Controller Built-In Timer	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
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	€62
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M Heater Kit	€463
RBC-VNMC-HE1	Heater Kit Controller	Control for VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1 (heater procured locally)	€354
RBC-VNMH1-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	€409
RBC-VNMH2-PE	150 mm Heater Kit 1 kW	VN-M250HE and VN-M350HE Heat Exchanger	€420
RBC-VNMH3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500HE and VN-M650HE Heat Exchanger	€474
RBC-VNMH4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800HE and VN-M1000HE1 Heat Exchanger	€485
TCB-PCUC2E	Indoor Control Interface	Application control kit (use with VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1)	€132

APPLIED



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

CODE			41	65	82
Air-to-Air Heat Exchanger		**MMD-**	**VNK502HEX1E**	**VNK802HEX1E**	**VNK1002HEX1E**
Combinations				**SMMSe - SHRMe - MiNi SMMSe**	
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	m^3/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	m^3/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)	inch	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	VP30/25
Electrical	Power Input (Heat Exchange Mode) Extra High - High - Low	W	305 - 285 - 240	530 - 485 - 350	575 - 565 - 520
	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			**€4,625**	**€6,733**	**€7,700**

Accessories

NRC-01HE	Remote Controller	VN-M150-2000HE	€106
RBC-AMT32E	Remote Controller Built-In Timer	Full control including service functions	€69
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual	€129
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	€62
RBC-VNMC-PE	Heater Kit Controller	Control for VN-M Heater Kit	€463
RBC-VNMC-HE1	Heater Kit Controller	Control for VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1 (heater procured locally)	€354
RBC-VNMH1-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	€409
RBC-VNMH2-PE	150 mm Heater Kit 1 kW	VN-M250HE and VN-M350HE Heat Exchanger	€420
RBC-VNMH3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500HE and VN-M650HE Heat Exchanger	€474
RBC-VNMH4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800HE and VN-M1000HE1 Heat Exchanger	€485
TCB-PCUC2E	Indoor Control Interface	Application control kit (use with VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1)	€132

TOSHIBA

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. ESTIA heat pumps operate with the reliable and safe R410A refrigerant.









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.

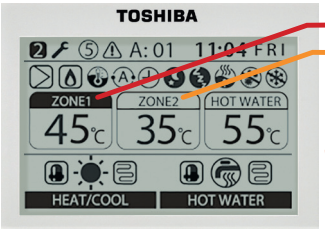
ESTIA SPLIT
CONTROLS

Toshiba offers different control solutions to meet end-users' and designers' expectations. From local individual control and settings to computer-based 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.

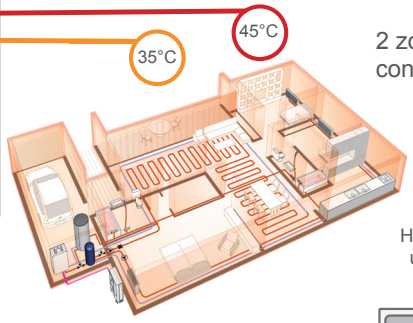
Toshiba offers a number of local control products that can be used to control a single indoor unit, or group of up to 8 indoor units, from a position adjacent to that indoor unit or group. It is possible to install these local controllers up to 500 m from the connected indoor unit which allows greater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

2 zone and 2 water pump control

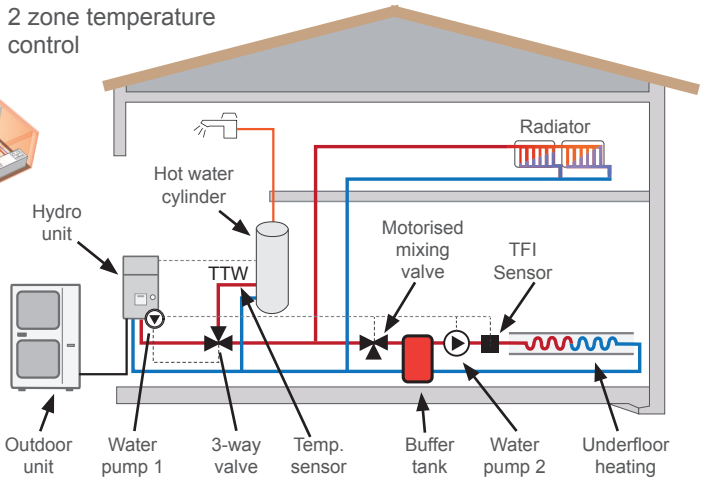
Space heating/cooling (multiple zones) with domestic hot water.



2 Zone temperature control
& 2 water pump control



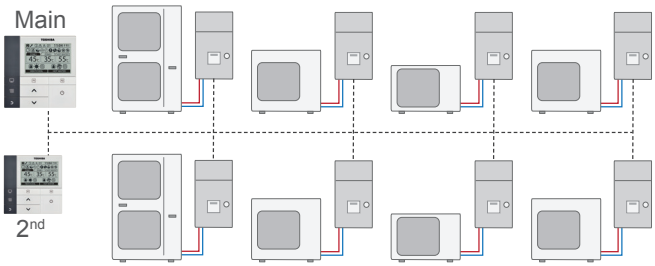
2 zone temperature control



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.

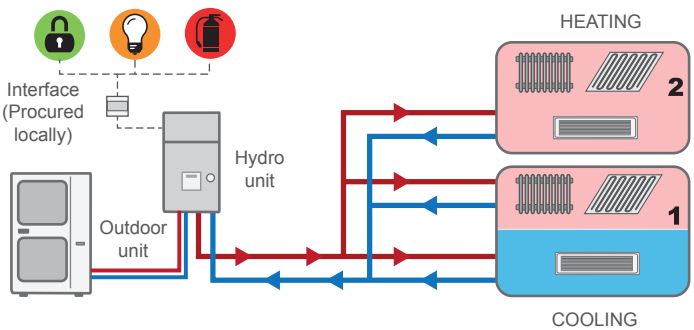
Group control function



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

TOSHIBA



Estia Air-to-Water Heat Pump

CODE					45	80	110	140	110	140	160
Outdoor Unit				HWS-	455H-E	805H-E	1105H-E	1405H-E	1105H8-E	1405H8-E	1605H8-E
Hydro Indoor Unit		Air T°	Water T°	HWS-	455XWHM3-E	805XWH**-E	1405XWH**-E	1405XWH**-E	1405XWH**-E	1405XWH**-E	1405XWH**-E
Under Floor Heating	Nominal Heating Capacity*1 *2	+7°C	35°C	kW	4.50	7.51	10.52	10.52	13.15	13.15	14.91
	Max. Heating Capacity*3	+7°C	35°C	kW	6.83	8.52	14.63	16.74	14.73	15.77	16.76
	COP	+7°C	35°C	W/W	4.90	4.46	4.88	4.80	4.50	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	4.12/161	4.08/159	4.02/157	4.07/159
	Heating Capacity	-7°C	35°C	kW	4.18	5.00	8.04	8.04	8.63	8.64	9.05
	Max. Heating Capacity*4	-7°C	35°C	kW	4.48	5.74	9.67	9.50	10.79	10.64	11.25
	COP	-7°C	35°C	W/W	3.01	2.70	2.78	2.79	2.62	2.76	2.67
	Max. Heating Capacity	-15°C	35°C	kW	3.61	4.47	7.52	7.29	8.34	8.16	8.63
	Heating Capacity	-15°C	35°C	kW	3.14	4.02	6.17	6.38	6.86	6.85	7.18
	COP	-15°C	35°C	W/W	2.45	2.68	2.50	2.63	2.47	2.60	2.52
Radiators Heating & DHW	Max. Heating Capacity*1 *2	+7°C	45°C	kW	6.42	8.13	13.62	14.26	13.93	15.07	15.77
	Max. Heating Capacity*4	-7°C	45°C	kW	4.37	5.55	9.16	9.59	9.17	10.12	10.64
	Max. Heating Capacity	-15°C	45°C	kW	2.84	4.31	7.12	7.03	7.37	7.75	8.15
	Max. Heating Capacity	+7°C	55°C	kW	6.25	7.93	10.98	11.67	12.56	13.64	14.12
	Max. Heating Capacity	-7°C	55°C	kW	4.29	5.29	8.83	8.93	8.92	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	3.34/130	3.31/129	3.31/129	3.33/130
Cooling	Nominal Cooling Capacity	35°C	7°C	kW	4.50	6.00	10.00	10.00	11.00	11.00	13.00
	EER	35°C	7°C	W/W	3.08	3.10	3.07	3.07	2.89	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
	Hot Water Operation Outdoor			°C	-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
Operating Range	Hydro Heating Operation Indoor			°C	+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
Heating Condition	Input Power	35°C	7°C	kW	0.92	1.79	2.30	3.11	2.34	3.16	3.72
	Rated Water Flow	35°C	7°C	l/m	12.9	22.9	32.1	40.1	32.1	40.1	45.8
Sound*6	Sound Pressure Hydro/Outdoor			dB(A)	27/50	27/49	27/51	29/53	27/51	29/53	29/54
	Sound Power Hydro/Outdoor			dB(A)	41/65	41/64	43/66	43/68	43/66	43/68	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
	Weight			kg	42	63	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
Air Flow	Standard			l/s	667	833	1717	1717	1717	1717	1717
	Standard			m^3/h	2400	3000	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
	Drain Port Connection			mm	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
	Maximum Height Difference			m	±10	±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
	Hydro Unit Power Input Heating			kW	0.06	0.06	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
	Outdoor Unit Power Input Heating			kW	0.86	1.73	2.21	3.02	2.25	3.07	3.63
	Total Run Current Heating			A	5.00	8.41	10.74	14.40	4.39	5.67	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
	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
	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
	Suggested Fused Supply			A	10	20	20	25	10	16	16
OUTDOOR RETAIL PRICE					**€1,107**	**€2,722**	**€3,198**	**€3,535**	**€3,521**	**€3,803**	**€4,323**

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	16
DOMESTIC HOT WATER TANK RETAIL PRICE			**€1,245**	**€1,452**	**€1,707**



Estia Air-to-Water Heat Pump (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
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			**€3,797**	**€3,923**	**€4,076**	**€4,215**	**€5,000**	**€5,154**	**€5,181**

SYSTEM RETAIL PRICE	**HWS-455H-E**	**€4,904**	-	-	-	-	-	-
SYSTEM RETAIL PRICE	**HWS-805H-E**	-	**€6,645**	**€6,798**	**€6,937**	-	-	-
SYSTEM RETAIL PRICE	**HWS-1105H-E**	-	-	-	-	**€8,198**	**€8,352**	**€8,379**
SYSTEM RETAIL PRICE	**HWS-1405H-E**	-	-	-	-	**€8,535**	**€8,689**	**€8,716**
SYSTEM RETAIL PRICE	**HWS-1105H8-E**	-	-	-	-	**€8,521**	**€8,675**	**€8,702**
SYSTEM RETAIL PRICE	**HWS-1405H8-E**	-	-	-	-	**€8,803**	**€8,957**	**€8,984**
SYSTEM RETAIL PRICE	**HWS-1605H8-E**	-	-	-	-	**€9,323**	**€9,477**	**€9,504**

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	€133
TCB-PCMO3E	Input Signal PC Board	Estia room thermostat, emergency stop input signal	€75
TCB-PCIN3E	Output PCB	Interface provides an output for fault and run	€106

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

CODE					80	110
Outdoor Unit				**HWS-**	**P805HR-E**	**P1105HR-E**
Hydro Indoor Unit		**Air T°**	**Water T°**	**HWS-**	**P805XWH**-E**	**P1105XWH**-E**
Under Floor Heating	Nominal Heating Capacity*1 *2	+7°C	35°C	kW	16.92	7.51
	Max. Heating Capacity*3	+7°C	35°C	kW	8.00	11.20
	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	11.92	12.79
	Max. Heating Capacity*4	-7°C	35°C	kW	9.38	9.74
	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
	COP	-15°C	35°C	W/W	2.18	2.18
Radiators Heating & DHW	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++
Cooling	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			m^3/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*1	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					**€3,539**	**€3,594**

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	16
DOMESTIC HOT WATER TANK RETAIL PRICE			**€1,245**	**€1,452**	**€1,707**



Estia Air-to-Water Heat Pump Powerful (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			**€3,923**	**€4,076**	**€4,215**	**€5,000**	**€5,154**	**€5,181**
SYSTEM RETAIL PRICE		**HWS-P805HR-E**	**€7,462**	**€7,615**	**€7,754**	**-**	**-**	**-**
SYSTEM RETAIL PRICE		**HWS-P1105HR-E**	**-**	**-**	**-**	**€8,594**	**€8,748**	**€8,775**

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	€133
TCB-PCMO3E	Input Signal PC Board	Estia room thermostat, emergency stop input signal	€75
TCB-PCIN3E	Output PCB	Interface provides an output for fault and run	€106

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 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.















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



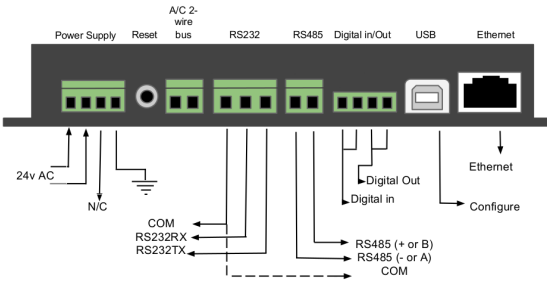
Wired Controller

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.





There are 3 models providing different protocol solutions:

RBC-BPB1	BACnet/IP
RBC-BPM1	Modbus RTU via RS232/RS485 and Modbus TCP
RBC-BPT1	Trend via Ethernet (requires an IQ3/4 outstation with spare memory)

TOSHIBA

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

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.



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).

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.



Smart Manager Controller

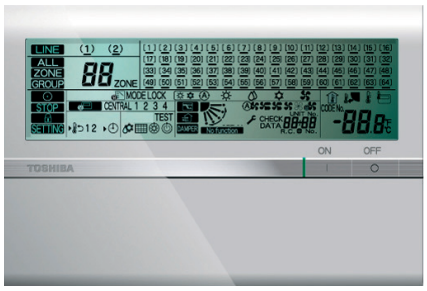
Smart Manager Data Analyser
BMS-SM1281ETLE
The Smart Manager is a product that is capable of controlling 128 indoor units from a single location. The device has the facility to set all of the operating parameters for individual or zoned indoor units, whether they are VRF or individual split systems. 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.

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.



TOSHIBA

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
TCBIFMB641TLE

The Modbus interface connects Toshiba air conditioning systems to a Modbus Building Management System. The interface connects directly to the Toshiba 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 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

Remote Controllers For Use With RAV And VRF Indoor Units

Wired Remote Controller

Accessory	RBC-AMT32E	RBC-AMS41E	RBC-AMS55E-ES	NRC-01HE	RBC-AS41E	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-AX32U(W/WS)-E	RBC-AX33CE	TCB-AX32E2	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-AMS55E-ES.

Controller Comparison Table



Wired Remote Controller

Model Name		RBC-AMT32E	RBC-AMS41E	RBC-AMS55E-ES	NRC-01HE	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-AX32U(W)-E (WH-L11SE)	RBC-AX33CE (WH-L11SE)	RBC-AX32UM(W)-E (WH-L11SE)	RBC-AX32UW(W)-E (WH-L11SE)	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	-

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



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.

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

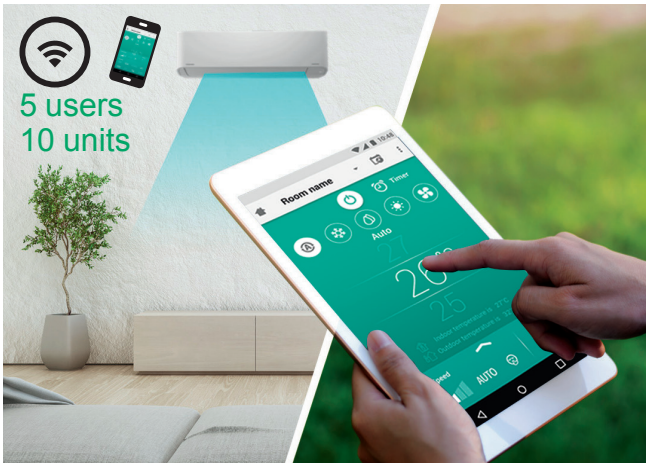
SECURE CONNECTIONS
- Password and login
- Child-lock function

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

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	Silent CDU to reduce the outdoor unit noise level
Hi POWER Boost mode	PURE Plasma and ionizer filters
Fireplace mode	FLOOR Floor function for consoles

TOSHIBA

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 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

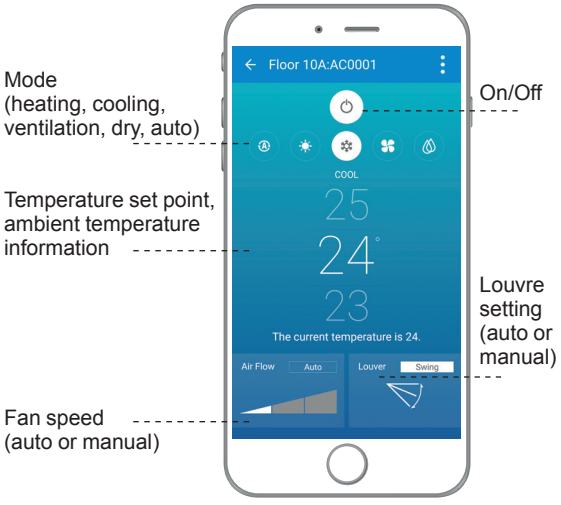
- Optimise the management of your facilities without compromising comfort

COMPATIBLE PRODUCTS

- MiNi SMMS-e, SMMS-e, 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



Administrator-specific functions:

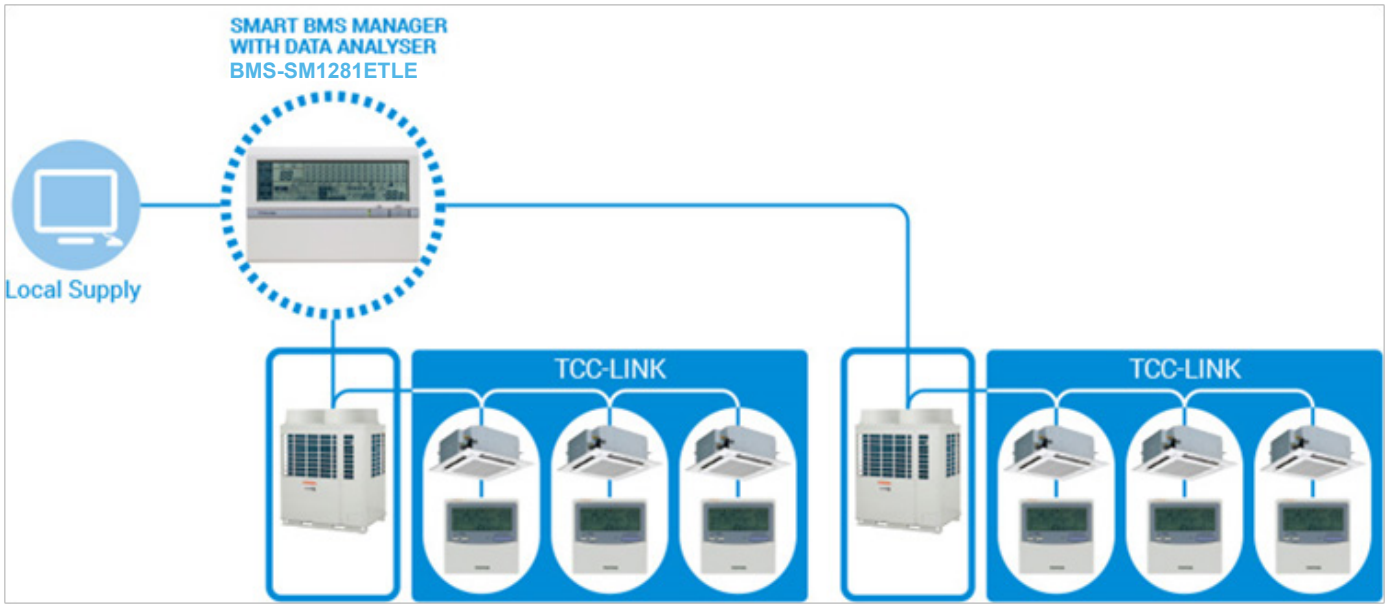
- Group control with on/off function for all devices
- User access restriction management and advanced mode

Network Controls

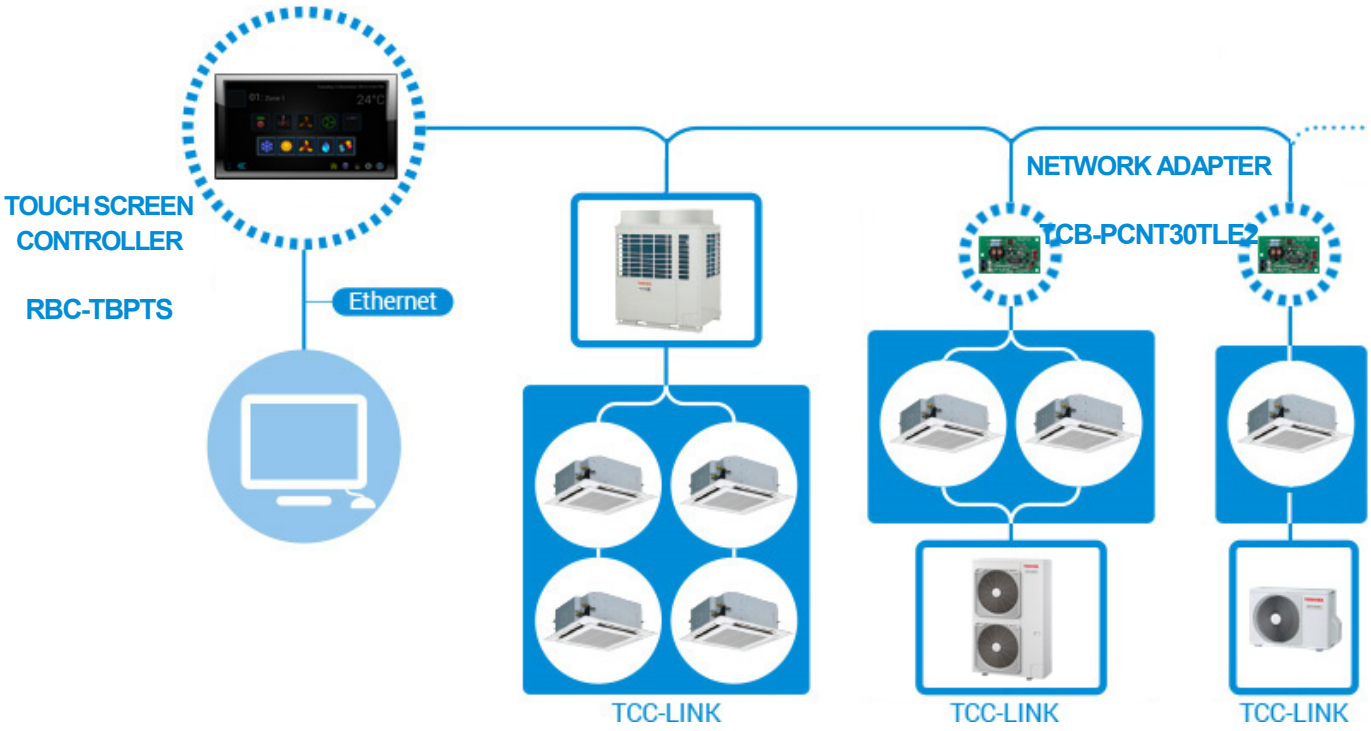
Toshiba offers a wide range of centralised network control solutions for a diverse range of building environmental management needs, such as remote network control, energy monitoring, report generation, advanced scheduling and others. What's more, comprehensive interface solutions provide easy installation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

Building Management Systems

Smart BMS Manager with Data Analyser



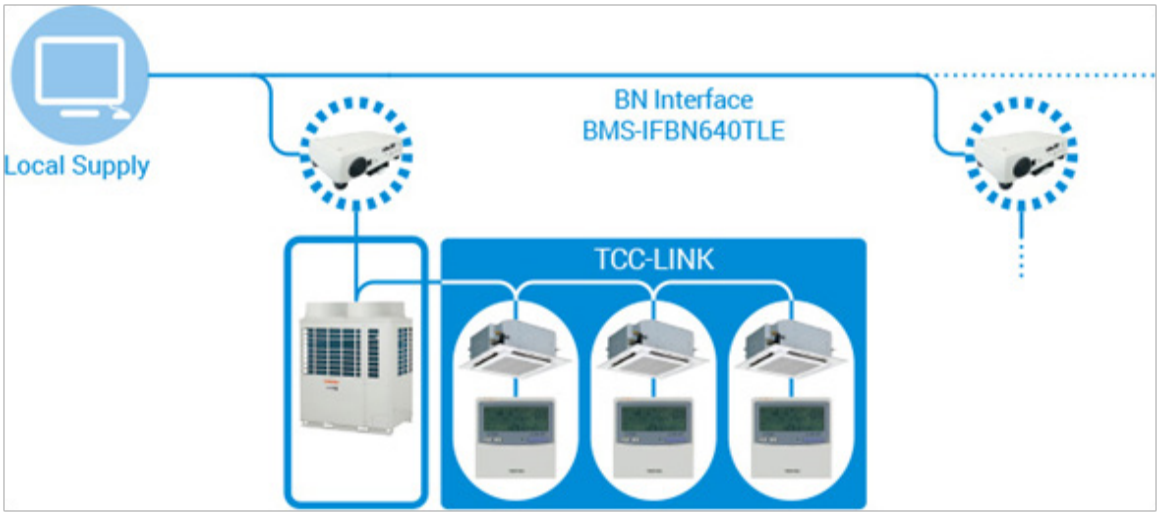
Touch Screen Controller



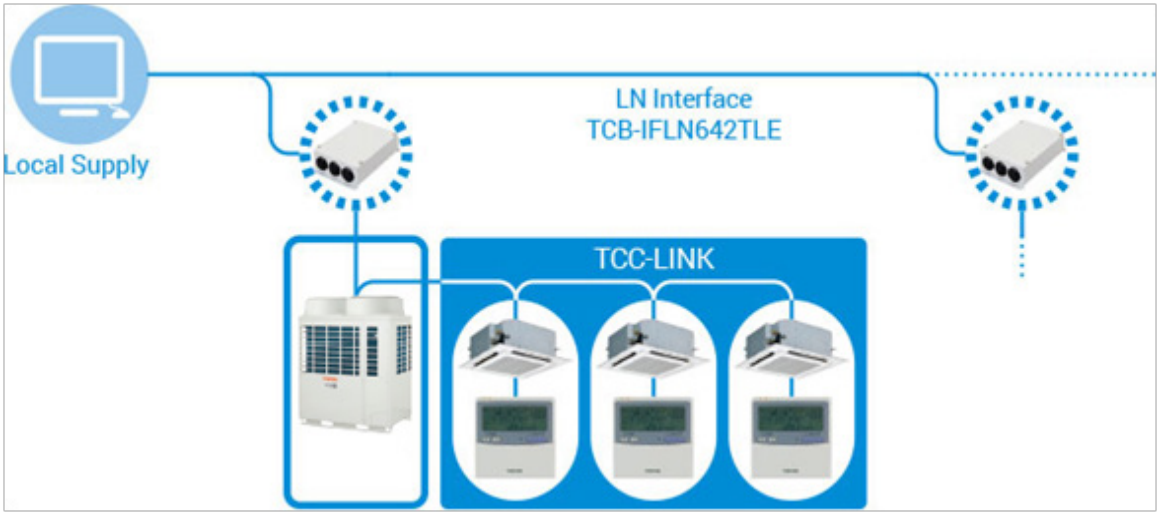
TOSHIBA

Open Network Systems

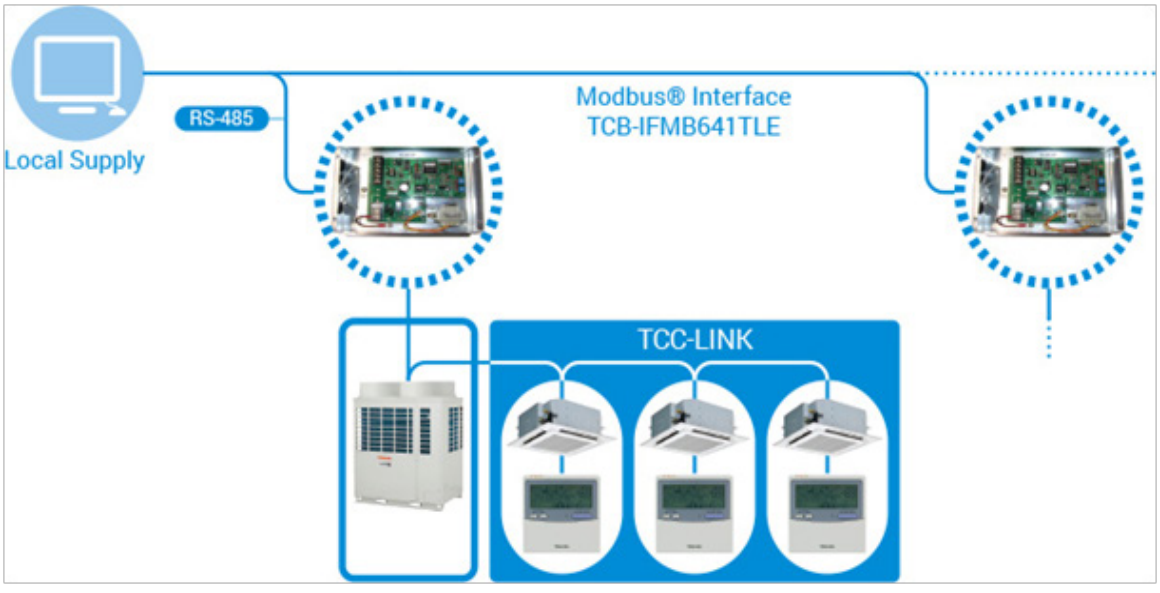
BACnet® System



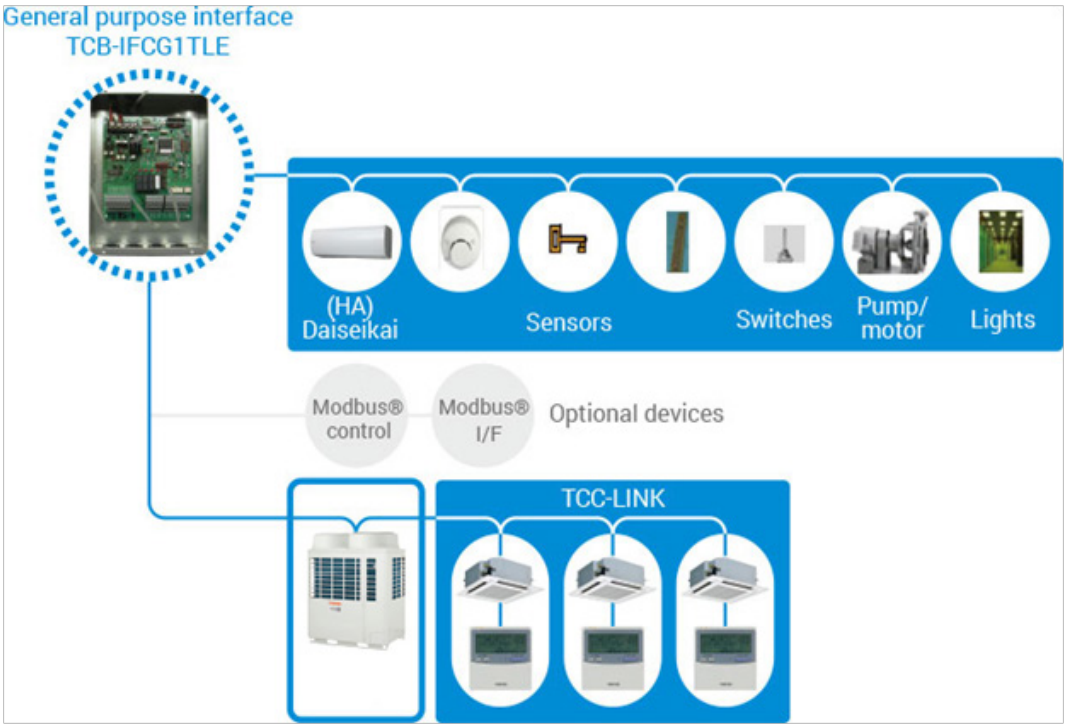
LonWorks® System



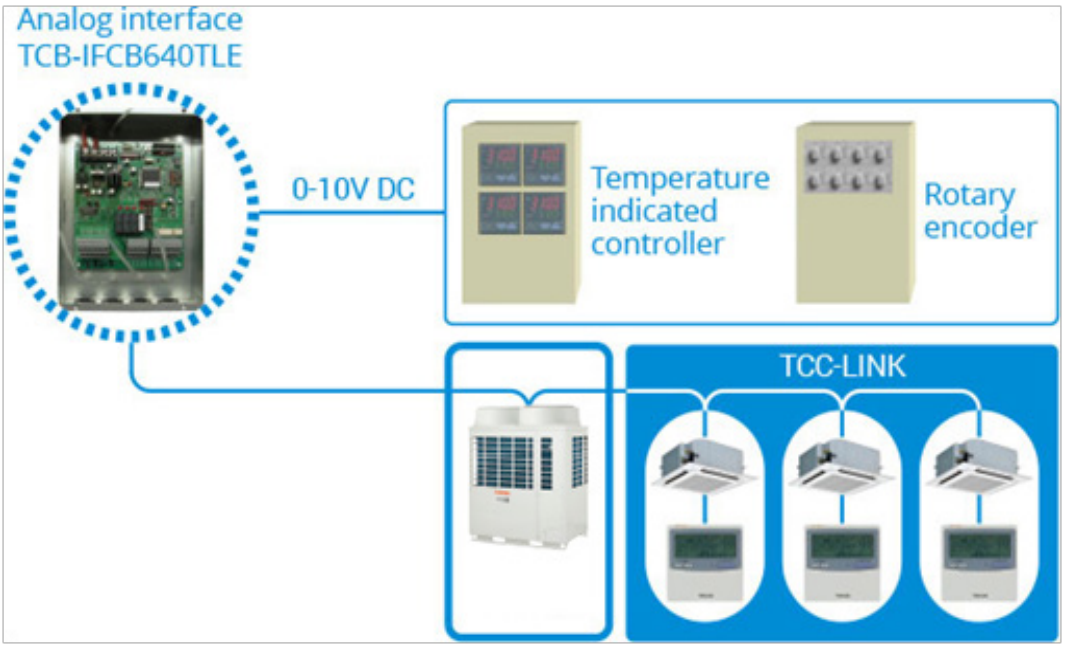
Modbus® System



General Purpose Interface



Analog Interface



TOSHIBA

Central Remote Controllers and Schedule Timer

Accessory	RBC-TBPTS	BMS-CT1280E	BMS-CM1281TLE	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 recognized 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-BPB1	RBC-BPM1	RBC-BPT1
Type	Black Pear BACnet	Black Pear Modbus	Black Pear 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

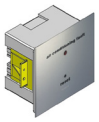
Accessory	TCB-IFLN642TLE	
Type	LN Interface	
		
Object	Command	Monitoring
ON/OFF Status	✓	✓
Operation Mode	✓	✓
Fan Speed	✓	✓
Louvre	✓	✓
Set Temperature	✓	✓
Filter Dirty Indicator	✓	✓
Room Temperature	-	✓
Permit/Prohibit of Local Operation	✓	✓
Error Status	-	✓
Error Code	-	✓

Leak Detection and Containment - Panels

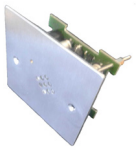
Leak Detection Panel		TCB-LD1	TCB-LD2UK	TCB-LD2	
Repeater & Remote Indication Panels					RBC-RP1
					
Standard Rating	IP	50	65	55	-
Enclosure		FRABS (UL 94-V0 Plastic)	Metal	Metal	Metal
Colour		Black	Light grey RAL 7035	Light grey RAL 7035	Light grey RAL 7035
Height	mm	114	400	400	500
Width	mm	194	300	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) *Max. 10 per Circuit		TCB-LDS1 or TCB-LDS2	*TCB-LDS1/TCB-LDS2	*TCB-LDS1/TCB-LDS2	*TCB-LDS1/TCB-LDS2
RETAIL PRICE		**€228**	**€2,154**	**€1,662**	**€1,635**

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 Cyclemaster		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		**€344**	**€344**	**€373**	**€408**	**€562**	**€591**	**€612**

Leak Detection and Containment - Repeaters

Repeater & Remote Indication Panels		RBC-AIP1	RBC-AIP2	RBC-AIP3		
Leak Detection Room Indicator					RBC-AIP4	
Refrigerant Leak Detector						RBC-RI1
						
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) *Max. 4 Circuits		inc. RBC-DI1	inc. RBC-DI1	-	-	-
On-site Commissioning Support		-	-	Half Day Included	-	-
RETAIL PRICE		€1,892	€3,100	€2,870	€86	€91

Leak Detection and Containment - Detectors

Refrigerant Leak Detector		TCB-LDS1 TCB-LDS1 (inc. TCB-LD12V)	TCB-LDS2 TCB-LDS1 (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		**€670**	**€688**

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)	€1,756
		RBC-AC2		Auto-Changeover Panel	Unit auto-changeover with temperature high limit stat (2 Run/1 Standby)	€2,045
		RBC-AIP1		Remote Indication Alarm	Remote indication of alarm for up to 8 x RBC-RD6/RBC-RP1 panels incl. RBC-DI1	€1,892
		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	€3,100
		RBC-EM1-PE		Energy-Monitoring Kit	Power meter and transformers to be used with the Windows package and touch screen	€1,306
Control Software		RBC-WP1-PE	VRF - RAV	Windows Package	Interactive intelligence software to be used with the TCB-IFLN642TLE LonWorks gateway	€5,208
		TTS-WP1SC		Windows Package	Toshiba WP1 software configuration	€748
Controller Infra-Red		RBC-AX32U(W)-E	RAS	4-Way Cassette Corner	Replacement corner pocket with built-in receiver and remote controller	€193
		RBC-AX32UM(W)-E		Compact Cassette	Wireless remote controller (new 7 series Compact Cassettes)	€125
		RBC-AX32UW(W)-E		2-Way Cassette Receiver	Replacement receiver and remote controller	€217
		RBC-AX33CE		Ceiling Receiver	Replacement receiver and remote controller	€212
		RBC-AX41U(W)-E		Compact Cassette	Wireless infra-red controller and receiver	€193
		RB-RXS30-E		Single-Split System	Weekly-timer, single combination	€74
		RB-RXS31-E		Multi-Split System	Weekly-timer, IMS combination	€74
		RB-RXS33E		Multi-Split System	Weekly-timer, IMS combination	€74
		TCB-AX32E2		External Receiver	Independent receiver and remote controller for all models	€274
		TCB-SIR41U-E		Motion Sensor	Smart Cassette occupancy sensor control with 10 m diameter detection	€90
		TCB-SIR41UM-E		Motion Sensor	Compact Cassette occupancy sensor control with 10 m diameter detection	€90
Controller Wired		HWS-AMS54E	ESTIA	Estia Wired Remote Controller	Full control including service functions with fully-programmable 7-day timer	€133
		NRC-01HE	VN	Remote Controller	VN-M150-2000HE air-to-air heat exchangers	€106
		RBC-AMS41E	VRF - RAV	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer	€84
		RBC-AMS55E-ES		Remote Controller	Includes energy monitoring, timer and backlight display as well as power-save functions, multilingual	€129
		RBC-AMT32E		Standard Remote Controller	Full control including service functions	€69

ACCESSORIES

Accessories - Controls: Wired Controllers and Indoor Interfaces

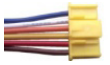
Controller Wired		RBC-AS41E	VRF - RAV	Simplified Controller	Ideal for hotel and basic use applications (no service function available)	€91
		RBC-ASC11E		Compact Remote Controller	Includes timer off, backlight display with easy-use functions, multilingual	€76
		RBC-MTSC1		Mini Touch Screen Controller	Mini touch screen controller with configurable icons for indoor units	€282
		RBC-MTSC2		Mini Touch Screen Controller	Mini touch screen controller with schedule timer, configurable icons for indoor units	€335
		RB-RWS21-E	RAS	Remote Controller	Hard-wired remote controller RAS Ducted	€190
		TCB-TC41LE	VRF - RAV	Remote Sensor	Ideal for allowing automatic control but room sensing required for comfort	€82
Central Controller Wired		BMS-CT1280E	VRF - RAV	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)	€4,009
		BMS-CT5121E		Touch Screen Controller	Multi-function touch screen controller enables full control of up to 512 indoor units with electric billing	€4,955
		BMS-IFBN640TLE		BACnet Control	Interface for LC and VRF	€1,651
		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)	€1,604
		BMS-SM1281ETLE		Smart Manager With Data Analyser	Smart Manager enables full control of up to 128 indoor units with energy monitoring and advanced control options	€2,556
		RBC-BPB1		Black Pear BACnet Controller	Controls up to 64 indoor units TB-50 TB-50D BACnet/IP	€4,132
		RBC-BPM1		Black Pear Modbus Controller	Controls up to 64 indoor units TM-50 TM-50D Modbus RTU via RS232/RS485 and Modbus/TCP	€4,132
		RBC-BPT1		Black Pear Trend Controller	Controls up to 64 indoor units TT-50 TT-50D Trend via Ethernet (requires an IQ3/4 outstation with spare memory)	€4,132
		RBC-TBPTS		Touch Screen Controller	Multi-function touch screen controller	€2,615
		RBC-TBPTSBC		Toshiba Smart Touch Back Box	Recessed housing for smart touch screen controller	€179
		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	€903
		TCB-EXS21TLE		Schedule Remote Controller	Schedule timer for use with central controller or standard controllers	€346
Indoor Interface		BMS-IFKX0AWR-E	Estia	BMS Interface	KNX I/F for Estia	€555
		BMS-IFKX0TLR-E	VRF - RAV	BMS Interface	KNX I/F for LC and VRF	€452
		BMS-IFMB0AWR-E	Estia	BMS Interface	Modbus I/F for Estia	€490
		BMS-IFMB0TLR-E	VRF - RAV	BMS Interface	Modbus I/F for LC and VRF	€377

Accessories - Controls: Indoor Interfaces

Indoor Interface		NRB-1HE	VN	Remote On/Off Adapter	Remote on/off adapter air-to-air heat exchanger	€106
		RBC-AVS2	VRF - RAV	Remote Sensor	Averaging temperature sensor kit	€190
		RBC-AVS3		Remote Sensor	Averaging temperature sensor kit	€210
		RBC-AVS4		Remote Sensor	Averaging temperature sensor kit	€224
		RBC-CK1	RAV	VRF-DI-SDI Conversion Kit	Kit required to convert VRF Floor/Chassis units to connect with DI-SDI outdoors	€141
		RBC-CK2		VRF-DI-SDI Conversion Kit	Kit required to convert VRF Floor-Mounted Cabinet units to connect with DI-SDI outdoors	€114
		RBC-FDP3-PE	VRF - RAV	BMS Interface	Monitoring and control interface for VRF and DI-SDI	€407
		RBC-FDP3-AHU		BMS Interface	Interface to connect to a 0-10 V with AHU firmware	€577
		RBC-IS-IR-Wi-Fi-1	RAS	Wi-Fi Connection	IntesisHome Wi-Fi universal controller	€275
		RBC-RASNC	RAS - RAV	RAS Network Card (to Central Controller)	Interface to enable RAS-to-RAV communication	€289
		RBC-SMF1	VRF - RAV	Fan Interface	Interface to provide an output to enable an external fan from the unit	€62
		RBC-SMIM2		Indicator Module Mode	Interface to indicate the mode of unit operation output for cool, heat and fan only	€93
		RBC-SMIM3		Indicator Module ON/OFF and Stopping Fault	Interface to indicate unit operation and stopping fault	€89
		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	€99
		RBC-TO-RC-Wi-Fi-1		Wi-Fi Connection	IntesisHome Wi-Fi - Toshiba DI and VRF	€308
		RBC-TSI1		Monitoring and Control Interface	Interface to connect 0-10 V or resistance-based BMS	€322
		RBC-TXIO		Control Interface	Input/output interface for third-party equipment	€393
		RB-N103S-G	RAS	Wi-Fi Connection	Wi-Fi adapter	€135
		RB-N104S-G		Wi-Fi Connection	Wi-Fi adapter and cable	€140
		RB-N105S-G		Wi-Fi Connection	Wi-Fi adapter	€135
		RB-N106S-G		Wi-Fi Connection	Wi-Fi adapter and cable	€140
		RB-I301-E		RAS Console	Leak detection sensor kit for RAS Console units	€135
		TCB-LDS1	VRF - RAV	Refrigerant Leak Detector	Room leak detection concentration sensor with white faceplate (requires remote 12 V transformer)	€474
		TCB-LDS2		Refrigerant Leak Detector	Room leak detection concentration sensor with stainless steel faceplate (requires remote 12 V transformer)	€491
		TCB-LDS1BLK		Refrigerant Leak Detector	Room leak detection concentration sensor with black faceplate (requires remote 12 V transformer)	€427
		TCB-LD12V		Refrigerant Leak Detector	Room leak detection transformer 12 V and cable kit (use with TCB-LDS1, TCB-LDS2 and TCB-LDS1BLK)	€197
		TCB-IFCB5-PE		Window Switch and Remote ON/OFF	Disable indoor unit operation when outside window is open and for door entry system	€30
		TCB-PX100-PE		Enclosure for Window Switch	Use when the window switch cannot fit within the AC unit	€22

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	€631
		TCB-PCNT20E	VRF - RAV	Network Adapter XY AI Network	Network adapter to connect a DI unit to the old AI network	€214
		TCB-PCNT30TLE2	RAV	Network Adapter U3/U4 TCC-Link	Network adapter to connect a DI unit to the TCC-Link network	€99
		TCB-PX30MUE		Terminal Box (TCB-PCNT30TLE2)	Enclosure for the PCNT30TLE2 when used with all DI Cassette units	€75
Indoor Interface Lead		RBC-CBK15FE	VRF	Flow Selector Lead 15 m	Extension lead kit for the flow selector	€174
		RBC-FSEX15		Flow Selector Lead 15 m	Extension lead kit for the flow selector	€128
		RBC-LDCIMC	VRF - RAV	Refrigerant Leak Detector Lead	Leak detection 15 m lead	€53
		RBC-IT4-PE		CN06 Connector Timer Interface	Interface to accept a 240 V input from a timer	€151
		RBC-SMCN61		ON/OFF and Locking Lead	Lead to switch a unit on/off remotely and to lock this function	€10
		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	€62
		TCB-KBCN32VEE	VRF - RAV	Connector for CN32	Ventilation fan control DI and VRF	€174
		TCB-KBCN60OPE		CN60 Operation Status	Operation status for indoor unit DI and VRF	€340
		TCB-KBCN61HAE		Connector for CN61	On/off control DI and VRF	€345
		TCB-KBCN70OAE		Connector for CN70	Option error input DI and VRF	€169
		TCB-KBCN73DEE		Connector for CN73	Demand input control DI and VRF	€171
		TCB-KBCN80EXE		Connector for CN80	External error input DI and VRF	€176
		TCB-KBOS2E	RAV	Optional Connector Kit	RAV-**80#_280# peak-cut control/night operation/compressor status output	€28
		TCB-KBOS4E		Optional Connector Kit	RAV-**80#_160# peak-cut control/night operation/compressor status output	€36
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	€595
		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	€561
		RBC-DI1-PE		Digital Input/Output Interface	Interface to allow the connection of external equipment to the Windows package	€397
		RBC-IT2-PE		Timer Interface	Interface to accept a 240 V input from a timer for R407C equipment	€141
		RBC-IT3-PE	RAS	Timer Interface	240 V timer interface for Daiseikai units	€161
		TCB-IFCB640TLE	VRF - RAV	Analog Interface	Control and monitoring up to 64 indoor units on TCC-Link	€1,838
		TCB-IFCG1TLE		General Purpose Interface	Enables control of AC by the DI/DO and AI/AO	€1,838
		TCB-IFLN642TLE		LonWorks Gateway	LonWorks interface	€1,405

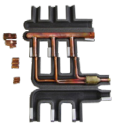
ACCESSORIES

Accessories - Controls: Interfaces, Outdoor Interfaces

Interface		TCB-IFMB641TLE	VRF - RAV	Modbus Gateway	Connect the system to a Modbus building management system	€1,711
		TCB-PCIN3E	ESTIA	Output PCB	Interface to provide an output for fault and run	€106
		TCB-PCMO3E		External Input PCB	Estia Interface to switch the unit ON or OFF	€75
		TCB-PCUC2E	VRF - RAV	Indoor Control Interface	Application control kit	€132
Outdoor Interface		TCB-IFCB-4E2	VRF - RAV	CN61 Remote ON/OFF	Interface for remote ON/OFF	€292
		TCB-PCDM4E		CN513 Power Peak Control	Header outdoor unit operation limit demand controller	€104
		TCB-PCDM4E	VRF	Power Peak -Cut Control	Power peak-cut control	€104
		TCB-PCIN4E		CN511 Operation Output Display	Operation/error output display, compressor operation control	€114
		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	€79
		TCB-PCOS1E2	RAV	CN510 Outdoor Control DI	Peak power cut and noise reduction. Output for compressor operation	€191

ACCESSORIES

Accessories - Piping Kits: Condensate Pumps, Branch Joints and Headers

Condensate		TCB-KP14CPE	VRF - RAV	4-Way Branch Kit	Ceiling-Suspended unit elbow piping kit (1.5-2 hp)	€78
		TCB-KP24CPE		2-Way Branch Kit	Ceiling-Suspended unit elbow piping kit (3-6 hp)	€93
		TCB-DP31CE		Drain Pump	Ceiling-Suspended unit drain pump kit (1.7-6 hp)	€276
		TCB-DP31HEXE	VN	Drain Pump	Air-to-air heat exchanger drain pump kit (for DX coil)	€651
		TCB-DP32DFE	VRF- RAV	Drain Pump	Fresh Air Intake drain pump kit (5-10 hp)	€742
		TCB-DP40DPE		Drain Pump	High-Static Ducted unit drain pump kit (8-10 hp)	€408
Branch Joints		RBC-DTWP101E	RAV	DI 4-Way Branch Kit	Quad system RAV-**224#-**280#	€267
		RBC-TRP100E		DI-SDI 3-Way Branch Kit	Triple system RAV-**160#-**280#	€251
		RBC-TWP101E		DI-SDI 2-Way Branch Kit	Twin system RAV-**224#-**280#	€196
		RBC-TWP30E2		DI-SDI 2-Way Branch Kit	Twin system RAV-**80#-**110#	€82
		RBC-TWP50E2		DI-SDI 2-Way Branch Kit	Twin system RAV-**140#-**160#	€86
		RBM-BT14E	VRF	VRF CDU 2-Pipe Modular Kit	SMMS capacities below 26 hp	€145
		RBM-BT24E		VRF CDU 2-Pipe Modular Kit	SMMS capacities above 26 hp	€178
		RBM-BT14FE		VRF CDU 3-Pipe Modular Kit	SHRM capacities below 26 hp	€146
		RBM-BT24FE		VRF CDU 3-Pipe Modular Kit	SHRM capacities above 26 hp	€179
Headers		RBM-HY1043E	VRF	VRF 2-Pipe 4-Way Header	SMMS capacities below 14.2 hp	€105
		RBM-HY2043E		VRF 2-Pipe 4-Way Header	SMMS capacities 14.2-25.2 hp	€114
		RBM-HY1083E		VRF 2-Pipe 8-Way Header	SMMS capacities below 14.2 hp	€147
		RBM-HY2083E		VRF 2-Pipe 8-Way Header	SMMS capacities 14.2-25.2 hp	€143
		RBM-HY1043FE		VRF 3-Pipe 4-Way Header	SHRM capacities below 6.4 hp	€147
		RBM-HY2043FE		VRF 3-Pipe 4-Way Header	SHRM capacities 6.4-14.2 hp	€147
		RBM-HY1083FE		VRF 3-Pipe 8-Way Header	SHRM capacities 14.2-25.2 hp	€231
		RBM-HY2083FE		VRF 3-Pipe 8-Way Header	SHRM capacities above 25.2 hp	€238

ACCESSORIES

Accessories - Piping Kits: Y-Joints

Y-Joints		RBM-BY55E	VRF	VRF 2-Pipe Y-Joint	SMMS capacities below 6.4 hp	€64
		RBM-BY105E		VRF 2-Pipe Y-Joint	SMMS capacities 6.4-14.2 hp	€81
		RBM-BY205E		VRF 2-Pipe Y-Joint	SMMS capacities 14.2-25.2 hp	€131
		RBM-BY305E		VRF 2-Pipe Y-Joint	SMMS capacities above 25.2 hp	€175
		RBM-BY55FE		VRF 3-Pipe Y-Joint	SHRM capacities below 6.4 hp	€74
		RBM-BY105FE		VRF 3-Pipe Y-Joint	SHRM capacities 6.4-14.2 hp	€101
		RBM-BY205FE		VRF 3-Pipe Y-Joint	SHRM capacities 14.2-25.2 hp	€151
		RBM-BY305FE		VRF 3-Pipe Y-Joint	SHRM capacities above 25.2 hp	€250

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	€442
		CACC-DF1		Double Fan CDU Coil Anti-Corrosion Coating	RAV-GM224#_GM280#	€611
		CACC-SF	RAV - RAS	Single Fan CDU Coil Anti-Corrosion Coating	RAS, RAV-GM30#-140#, RAV-GP40#-80#	€322
		CACC-VRF	VRF	VRF Module CDU Coil Anti-Corrosion Coating	8-12 hp SMMS, 8-10 hp SHRM	€831
		CACC-VRF1		VRF Module CDU Coil Anti-Corrosion Coating	14-16 hp SMMS, 12-14 hp SHRM	€917
		CACC-VRF2		VRF Module CDU Coil Anti-Corrosion Coating	18-22 hp SMMS, 16-20 hp SHRM	€1,256
		CACC-VRF3		VRF Module CDU Coil Anti-Corrosion Coating	≥46 hp SMMS, ≥36 hp HE SMMS, 42 hp SHRM, ≥24 hp HE SHRM	€1,374

Split Case/Sections		TTS-VRFSD-ML	VRF	Split Case 2 Main Sections	VRF split case UK mainland	€4,421
		TTS-VRFSD-OS		Split Case 2 Main Sections	VRF split case non-UK mainland	€5,880
		TTS-VRFSD-MLF		Split Case Multiple Sections	VRF split sections UK mainland	€7,033
		TTS-VRFSD-OSF		Split Case Multiple Sections	VRF split sections non-UK mainland	€8,310

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	€543
		TCB-BC1602UE		Air Discharge Direction Kit	4-Way Cassette air outlet shield for 2- or 3-way blow	€71
		TCB-BC1603UE	RAV	Air Discharge Direction Kit	Smart Cassette air discharge direction kit	€71
		TCB-SP1602UE	VRF - RAV	Cassette Spacer	4-Way Cassette height spacer for RBC-U31PGP(W)-E	€189
		TCB-SP1603UE	RAV	Cassette Spacer	Smart Cassette height spacer for RBC-U41PG(W)-E	€189
		TCB-FF101URE2	VRF - RAV	Inlet Spigot	Compact Cassette auxiliary fresh air flange	€49
		TCB-FF151US-E		Inlet Spigot	2-Way Cassette auxiliary fresh air flange	€60
		TCB-GB1602UE		Inlet Spigot	4-Way Cassette auxiliary fresh air flange	€71
		TCB-SF160C6BPE		Discharge Spigots 4 x 200 mm	Ducted units (4-6 hp)	€199
		TCB-SF56C6BPE		Discharge Spigots 2 x 200 mm	Ducted units (0.8-2 hp)	€133
		TCB-SF80C6BPE		Discharge Spigots 3 x 200 mm	Ducted units (2.5-3.2 hp)	€156
		818F0050	RAS-RAV-VRF	Ultra Pure Filter (Pair)	RAS, RAV and VRF High-Wall units (Quantity required - indoor width ≤ 800 mm x 1; indoor > 800 mm x 2)	€8
		TCB-FC1403UW-E	VRF	Filter Chamber	2-Way Cassette filter chamber (AP0362-0562)	€699
		TCB-FC283UW-E		Filter Chamber	2-Way Cassette filter chamber (AP0072-0152)	€416
		TCB-FC803UW-E		Filter Chamber	2-Way Cassette filter chamber (AP0182-0302)	€597
		TCB-FCY100DE		Filter Chamber	Fresh Air Intake filter chamber (AP0721-0961)	€828
		TCB-FCY51DFE		Filter Chamber	Fresh Air Intake filter chamber (AP0481)	€492
		TCB-GFC1602UE2	VRF - RAV	Filter Chamber	4-Way Cassette fresh air and filter chamber	€176
		TCB-GFC1603UE	RAV	Filter Chamber	Smart Cassette fresh air and filter chamber	€189
		TCB-LF1403UW-E	VRF	Long-Life Filter	2-Way Cassette super-long-life pre-filter (AP0362-0562)	€519
		TCB-LF283UW-E		Long-Life Filter	2-Way Cassette super-long-life pre-filter (AP0072-0152)	€296
		TCB-LF803UW-E		Long-Life Filter	2-Way Cassette super-long-life pre-filter (AP0182-0302)	€485

ACCESSORIES

Accessories - Miscellaneous: Filters, Heater Kits, Painted Finishes

Air Discharge, Filtration and Inlet		TCB-LK1401D-E		Long-Life Filter	Ducted unit long-life filter kit (4-6 hp)	€86
		TCB-LK2801DP-E	VRF - RAV	Long-Life Filter	Ducted unit long-life filter kit (8-10 hp)	€133
		TCB-LK801D-E		Long-Life Filter	Ducted unit long-life filter kit (2-3 hp)	€67
		TCB-PF4D-1E		Long-Life Filter	Fresh Air Intake long-life pre-filter (Quantity required: AP0481 x 2)	€150
		TCB-UFM4D-1E		High-Efficiency Filter	Fresh Air Intake high-efficiency filter 65% (Quantity required: AP0481 x 2)	€485
		TCB-UFH8D-1E		High-Efficiency Filter	Fresh Air Intake high-efficiency filter 90% (Quantity required: AP0481 x 2)	€489
		TCB-PF3DE	VRF	Long-Life Filter	Fresh Air Intake long-life pre-filter (Quantity required: AP0721-AP0961 x 2)	€209
		TCB-UFM3DE		High-Efficiency Filter	Fresh Air Intake high-efficiency filter 65% (Quantity required: AP0721-AP0961 x 2)	€656
		TCB-UFH7DE		High-Efficiency Filter	Fresh Air Intake high-efficiency filter 90% (Quantity required: AP0721-AP0961 x 2)	€698
Air-to-Air Heat Exchanger		RBC-VNMC-PE		Heater Controller Kit	Control for VN-M150-800HE heater kits	€463
		RBC-VNMC-HE1		Heater Controller Kit	Control for VN-M1000HE1, VN-M1500HE1 and VN-M2000HE1 (VN-M1500HE1 and VN-M2000HE1 heater procured locally)	€354
		RBC-VNMH1-PE		100 mm Heater Kit 1 kW	VN-M150HE heat exchanger	€409
		RBC-VNMH2-PE		150 mm Heater Kit 1 kW	VN-M250HE and VN-M350HE heat exchanger	€420
		RBC-VNMH3-PE		200 mm Heater Kit 2 x 1 kW	VN-M500HE and VN-M650HE heat exchanger	€474
		RBC-VNMH4-PE	VN	250 mm Heater Kit 2 x 1 kW	VN-M800HE and VN-M1000HE1 heat exchanger	€485
		RBC-VNWPH01		Enclosure	VN-M weatherproof housing for VN-M150HE-VN-M350HE	€2,884
		RBC-VNWPH02		Enclosure	VN-M weatherproof housing for VN-M500HE/VN-M650HE	€3,443
		RBC-VNWPH03		Enclosure	VN-M weatherproof housing for VN-M800HE/VN-M1000HE1	€4,003
		RBC-VNWPH04		Enclosure	VN-M weatherproof housing for VN-M1500HE1/VN-2000HE1	€4,800
Painted Finish		PAINT-4WAYCASSETTE		4-Way Cassette	Painted Cassette unit chassis	€443
		RBC-U31PB-GPF	VRF - RAV	4-Way Cassette	Painted 4-Way Cassette fascia panel	€361
		RBC-UM21PB-GPF		Compact Cassette	Painted Compact Cassette fascia panel	€328

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