LIGHT COMMERCIAL PRODUCTS

CATALOGUE **2021 - 2022**

TURN TO THE EXPERTS

for innovative solutions

Carrier

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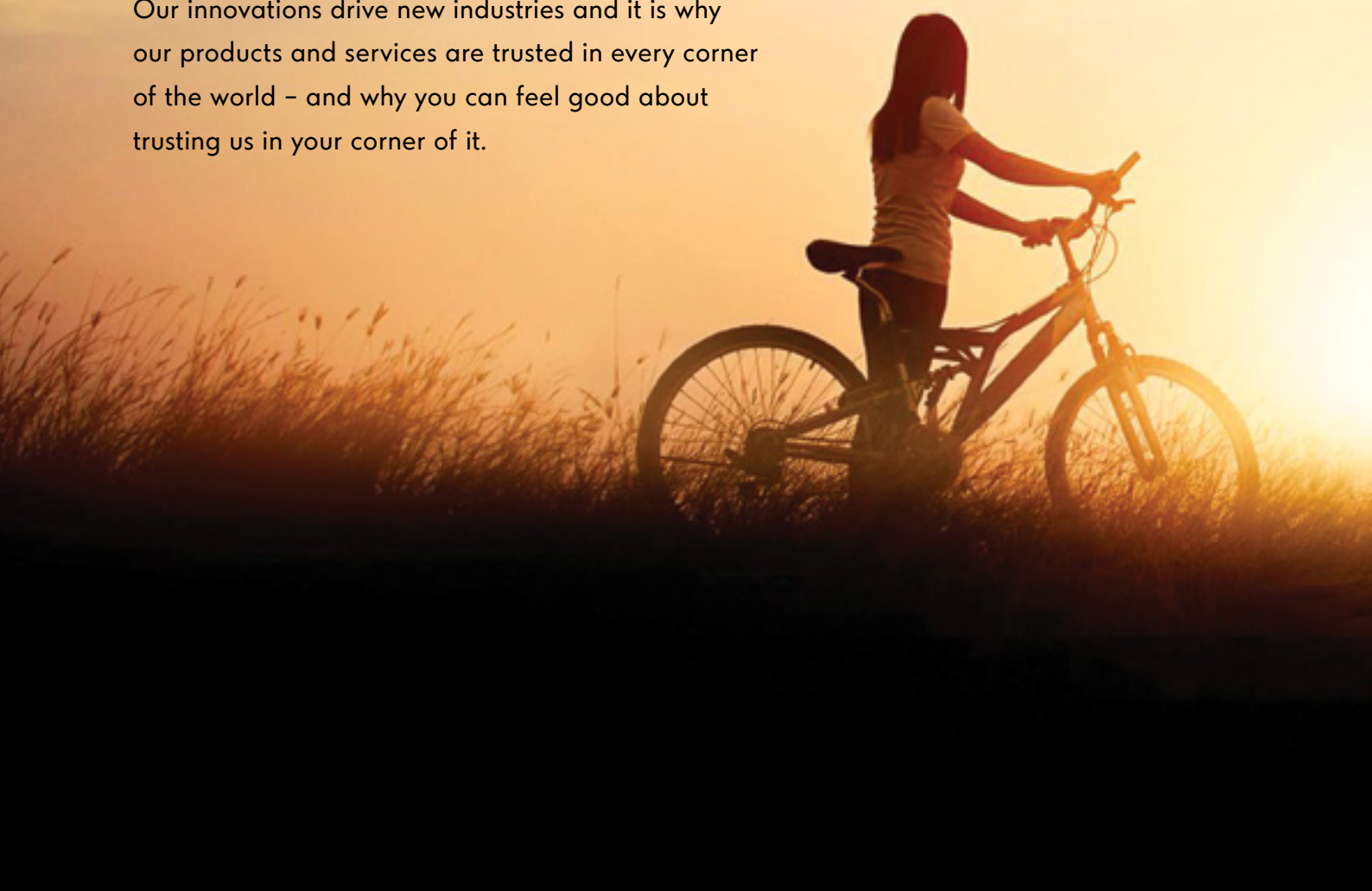
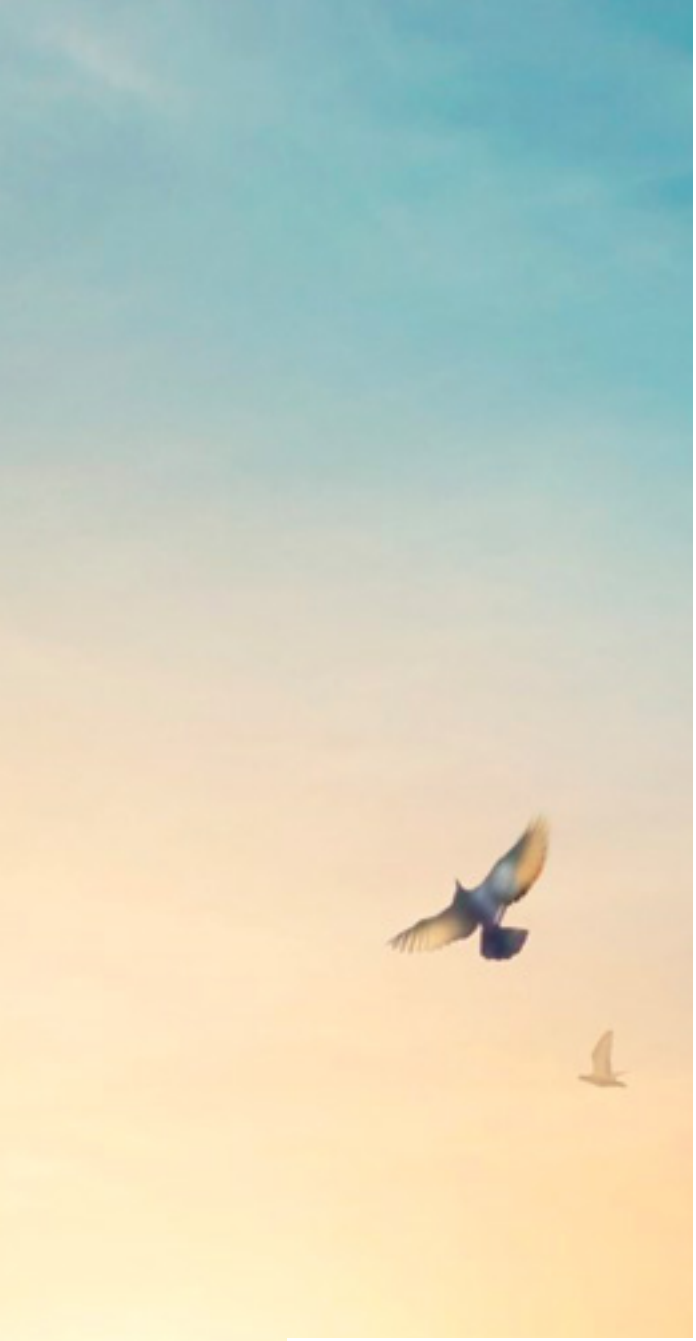
Carrier is a world leader

in heating, air-conditioning and refrigeration solutions.

Built on Willis Carrier's invention of modern air-conditioning in 1902, Carrier is a world leader in heating, air-conditioning and refrigeration solutions. We constantly build upon our history of proven innovation with new products and services that improve global comfort and efficiency.

Our innovations drive new industries and it is why our products and services are trusted in every corner of the world – and why you can feel good about trusting us in your corner of it.





THE INVENTION THAT CHANGED THE WORLD!

In 1902, Willis Carrier solved one of mankind's most elusive challenges by controlling the indoor environment through modern air-conditioning. His invention enabled countless industries, promoting global productivity, health and personal comfort.

Today, Carrier's innovations are found across the globe and in virtually every facet of daily life.

We create comfortable and productive environments, regardless of the climate. We safeguard the global food supply by preserving the quality and freshness of food and beverages.
We ensure health and well-being by enabling the proper transport and delivery of vital medical supplies under exacting conditions. We provide solutions, services and education to lead the green building movement.

These mark just a handful of the ways Carrier works to make the world a better place to live, work and play.

Willis H. Carrier

Carrier delivers

High efficiency and performance,

certified by EUROVENT!

Carrier actively participates in developing Eurovent certifications to help establish standards and achieve global compatibility.

WHAT IS EUROVENT CERTIFICATION

Eurovent Certification certifies the performance ratings of air-conditioning and refrigeration products according to European and international standards. The objective is to build up customer confidence by levelling the competitive playing field for all manufacturers and by increasing the integrity and accuracy of the industrial performance ratings.

When a product has been certified by Eurovent, the end users can be confident that their equipment will operate in accordance with the design specifications, the energy cost will be correctly stated and therefore the supplied product will correspond to the initial investment.

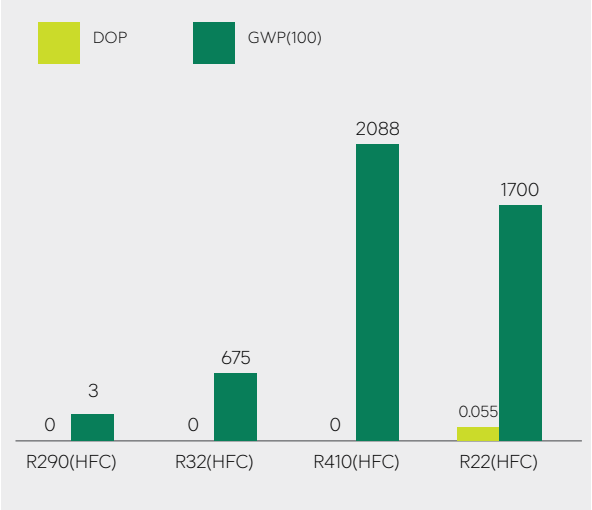
EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Products that have been certified for their performance and efficiency by Eurovent will feature the Eurovent Certification logo.

ENVIROMENTAL FRIENDLY PRODUCTS

R32

R-32 refrigerant has GWP (Global warming potential) of 675 which is three times lower than R-410A (GWP 2088) and it is more energy efficient than R410A.



EFFICIENT AND RELIABLE SOLUTIONS FOR ANY APPLICATION

Carrier provides sustainable solutions for light commercial buildings.

Carrier's 3D DC Inverter technology significantly increases energy efficiency and performance for a wide operation range.

The unit is controlled electronically by a microprocessor that senses indoor and outdoor temperature to achieve maximum comfort and energy savings even in extreme ambient conditions.

As a result, you can be comfortable all day long without worrying about the energy consumption!

DESIGNED FOR MAXIMUM ENERGY SAVINGS AND COMFORT

Carrier air-conditioning units can provide heating and cooling in a wide range from -15 to +46 °C without sacrificing efficiency.

They use ultra-quiet inverter compressors, equipped with 9 slots and 6 poles, operating at variable speeds and achieving precise temperature control, greater energy savings up to 70% and powerful dehumidification.

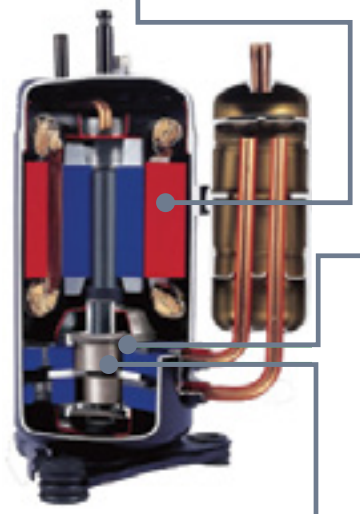
The compressor speed modulates automatically, much like a car on cruise control, so the system isn't constantly running at maximum capacity and only draws energy when it's needed.

The indoor and outdoor fans are also equipped with DC motors, further improving energy efficiency and money savings!

DC TWIN-ROTARY COMPRESSORS

All units between 24.000 to 64.000 BTU are equipped with state-of-the-art DC Twin-Rotary compressors which contribute to the system's high efficiency and reliability.

Highly Efficient DC Motor:
- Creative motor core design
- Highly density neodymium magnet
- Concentrated type stator
- Wider operating frequency range



Compressor (Twin Rotary) structure

Better balance and Extremely Low Vibration:
- Twin eccentric cams
- 2 balance weights

Highly Stable Moving Parts:
- Optimal material matching rollers and vanes
- Optimize compressor drive technology
- Highly robust bearings
- Compact structure

The two-rotary compression cylinders, offset from each other by 180° and the DC brushless motor with the shaft in perfect balance, reduce vibration and noise even when operating at very low speeds.

This means that there is an extremely wide range between the minimum and maximum capacity, therefore the system is always optimized to provide maximum comfort with precise temperature control at extremely high efficiency levels.

ADVANCED ELECTRONIC MANAGEMENT

Two distinct electronic management logics optimize operation to offer comfort with minimum energy consumption.

• Pulse Amplitude Modulation (PAM) of direct current to generate maximum power for the compressor at start-up and in peak load conditions.

• Pulse Width Modulation (PWM) of direct current optimizes compressor efficiency once the preset temperature has been reached, ensuring optimum performance while saving energy.

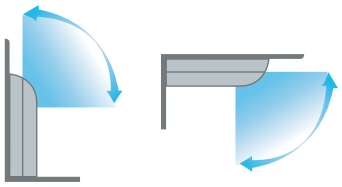
Several sensors placed in key positions on the refrigerant circuit electronically detect the operational state of the system. A micro controller unit receives the inputs from the sensors, elaborates them using advanced algorithms and optimizes the refrigerant flow and the operation of the compressor, the fan motors and the pulse modulation valve.

FLEXIBLE AND EASY INSTALLATION FOR ALL APPLICATIONS

Carrier understands the importance of correct installation, easily performed.

Our units incorporate advanced features to reduce installation time and make it more flexible.

Carrier units have been designed to match all project requirements, with features that make installation more flexible to any given space.



The unit can be installed either horizontally on the ceiling or vertically against the wall.

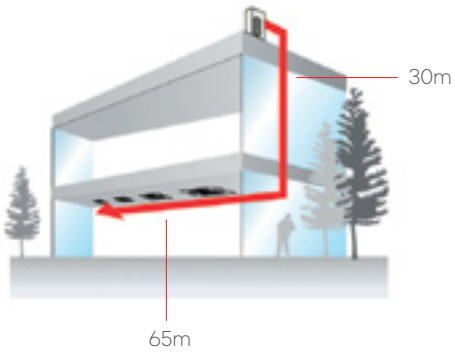
• **Low profile units:** The new ducted units have the lowest height design in the industry (down to 210mm), to fit in low-ceiling installations.

• **Fresh Air Intake Ports:** A ventilation motor can be installed in the fresh-air duct, connected to the ventilation connector, and work with the indoor fan to increase the volume of fresh air.

• **Floor & ceiling installation:** Console units can be seamlessly installed on the floor or on the ceiling, according to your needs.

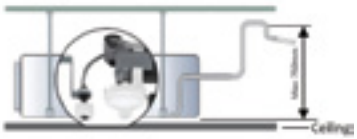
• **360° Air Flow:** Cassette sizes from 24.000 to 60.000 BTU can distribute airflow evenly to all directions, without "blind-spots", achieving equal temperature across the room.

• **Reserved Air Outlet for Duct:** A reserved outlet on the side of the indoor unit allows the connection of an air duct to provide air conditioning to nearby rooms from a single unit.



• **Pipping:** The indoor units offer connections for pipes coming from any direction, simple wiring and built-in drain pumps and reserved slots for fresh air intake. The outdoor units can support piping length up to 65 meters length with height difference up to 30 meters.

• **Reserved Dry Contact Ports:** Reserved ports are available for long distance on-off remote control by connecting to a switch and providing an alarm signal for external alarm light or vibration gauge.



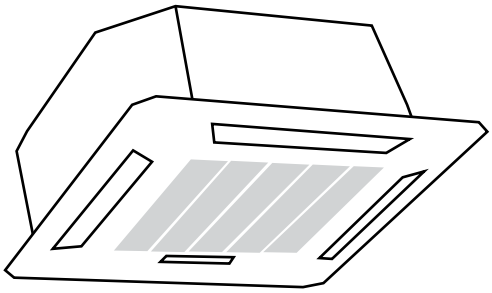
• **Built-in Drain Pump:** The Built-in drain pump is capable of lifting condensing water up to 750mm. It can be easily installed at the designated compartment within the Carrier Concealed Duct unit.

• **Easy access:** You can easily access the internal components of the units simply by removing the front panels.

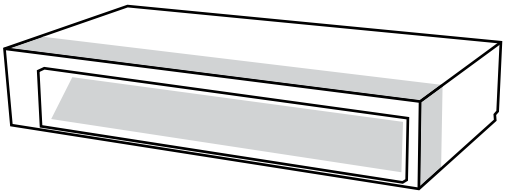
COMPLETE RANGE

Carrier offers a complete range of 3D DC Inverter systems that meet a wide range of residential and light commercial needs. Choose the combination of units that better serves your application: shops, offices, restaurants, bungalows, small or medium sized commercial spaces. With highly efficient single and twin-rotary compressors and unlimited options, we provide you with all the benefits you could ask for.

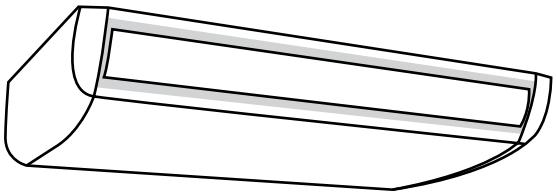
The range includes:



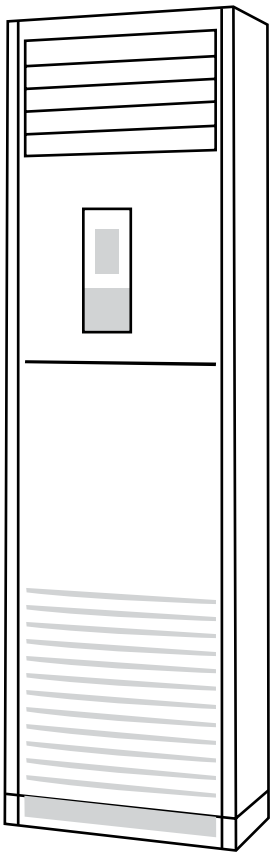
4-Way cassette with compact design



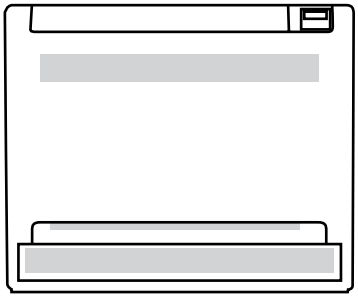
Ducted unit with low profile



Under-ceiling unit with slim body



Free Standing Unit



Console unit

COMPLETE CONTROL SOLUTIONS

Carrier units can be easily controlled through their remote control that displays all functions on its backlight, LCD display. Ducted units come with a wired control with big LCD display, which is also available for all units. Additionally, there is an optional wired control with modern design and big LCD display.

BMS CONTROLS

For greater flexibility in building installations, Carrier's new A6 ducted units come equipped with BMS Gateways that are compatible with multiple communication protocols of BACnet, LonWorks and Modbus.

Remote Control

Optional Wired Control

Wired Control

INNOVATIVE CHARACTERISTICS

Carrier products conform to the highest quality standards and maximize comfort with functions and modes specially designed to cover all your needs.

Moreover, Carrier air-conditioning units are equipped with additional functions to further increase energy savings without sacrificing comfort!

AIR QUALITY

FRESH AIR INTAKE PORTS

A ventilation motor can be installed in the fresh-air duct, connected to the ventilation connector, and work with the indoor fan to increase the volume of fresh air.

SELF-CLEANING

After the air-condition is switched off, the indoor unit will continue operating in dry mode for a few minutes, to clean and dry out the indoor evaporator and prevent the formation of mold.

DRY MODE

In this mode, priority is given to dehumidifying the air. Low fan speed and compressor cycling is used to achieve this and regulate room temperature.

INSTALLATION FLEXIBILITY

RESERVED AIR OUTLET FOR DUCT

A reserved outlet on the side of the indoor unit allows the connection of an air duct to provide air conditioning to nearby rooms from a single unit.

RESERVED DRY CONTACT PORTS

Reserved ports are available for long distance on-off remote control by connecting to a switch and providing an alarm signal for external alarm light or vibration gauge.

RELIABILITY

ELECTRICAL VOLTAGE PROTECTION

The unit is designed to operate when the voltage is less than or greater of 230 Volts. Specifically, the air conditioner can be operated at a voltage of 168 to 264V, thus providing protection against fluctuations in the electricity voltage in these limits.

BUILD IN DRAIN PUMP

The Built-in drain pump is capable of lifting condensing water up to 750mm. It can be easily installed at the designated compartment within the Carrier Concealed Duct unit.

SELF-DIAGNOSIS & AUTO-PROTECTION

The drain pump can remove the condensing water from the unit, up to 750mm high. The drainage piping is easy to install even at narrow spaces.

AUTO-DEFROSTING

This function will protect the outdoor unit and evaporator from ice and will maintain dehumidifying effect under extremely low ambient temperature.

AUTOMATIC RESTART

The unit restarts automatically after a power failure, keeping all previous settings.

COMFORT

8°C HEATING FUNCTION

You can activate this function through the remote control, so that the air-condition automatically starts heating mode when it detects temperature below 8°C, to prevent the room from freezing when it is unoccupied for a long period in severe cold weather.

360° AIR FLOW

Cassette sizes from 24.000 to 60.000 BTU can distribute airflow evenly to all directions, without "blind-spots", achieving equal temperature across the room.

AUTO-SWING

You can select the louvers to move automatically or choose the exact air flow direction using the remote control, as the unit is equipped with motorized air-louvers.

TURBO MODE

This function will be helpful to cool or heat your room quickly and effectively by operating at the maximum fan speed for 30 minutes.

MY MODE

The unit memorizes the desired mode and temperature so that you can have the desired operation at a touch of a button.

REMOTE CONTROL BRIGHT SCREEN

The remote control has a backlit LCD display for easier reading.

AUTO ADJUST EXTERNAL STATIC PRESSURE

With automatic air-flow adjustment function, the unit can adapt its fan speed to a lower or higher curve, to decrease or increase air-flow depending on resistance.

TIMER

You can program the unit to operate during specific hours, in the desired mode and temperature settings.

ENERGY SAVING

3D DC INVERTER

The indoor unit is equipped with a DC inverter fan motor. The outdoor unit is also equipped with DC inverter technology compressor and fan motor. With 3 DC inverter motors the unit achieves maximum performance and energy efficiency.

DC TWIN ROTARY COMPRESSORS

Units from 24.000 to 60.000 BTU are equipped with DC Twin-Rotary compressors, which contribute to the system's high performance and reliability. The two-rotary compression cylinders, offset from each other by 180° and a DC brushless motor with the shaft in perfect balance, ensure reduced vibrations and lower noise levels even when operating at very low speeds. They have an extremely wide range between the minimum and maximum capacity; therefore the system is always optimized to provide maximum comfort with extremely high efficiency levels.

ECO-MODE

By enabling ECO mode in cooling operation you can save up to 60% more energy compares to normal mode. The unit will automatically adjust both the internal fan speed and compressor rotation to provide you the same comfort with minimum power consumption. The function will be automatically disabled after 8 hours of operation. In ECO mode, the selected cooling temperature can be between 24 – 30°C.

SLEEP MODE

This mode saves energy and improves nighttime comfort. The set temperature will increase by 1°C per hour in cooling mode or decrease by 1°C per hour in heating mode, for the first 2 hours of operation. Thereafter the unit will retain the new temperature for 5 hours after which it will switch off automatically!

Carrier

Professional solutions from professionals

LIGHT COMMERCIAL COMFORT SOLUTIONS

Carrier light commercial solutions are designed to meet the requirements of a variety of building types and applications.

ENERGY EFFICIENCY

The inverter technology the systems use offers considerable advantages in terms of energy savings. The variable capacity management of the compressor allows the system to maintain room temperature control and to ensure minimum energy usage.

EXTENDED RANGE OF SOLUTIONS

Carrier Light Commercial systems, with state-of-the-art technologies, flexible controls, variety of indoor units, wide range of capacities and improved installation, bring comfort and convenience to any light commercial installation.

OPERATIONS & MAINTENANCE

With superior quality and performance, the decision to partner with Carrier for light commercial solutions is an easy one. Our independent partners make installing and maintaining those solutions for optimal performance simple as well.

INVERTER CONSOLE

XPower 42QZA

TURBO Turbo Mode

Dry Mode

Auto Leak Detection

R32 REFRIGERANT

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Ultimate comfort

INVERTER CONSOLE

XPower 42QZA

ELEGANT & COMPACT DESIGN

Carrier console with the elegant & compact design can be used for floor standing or lower wall applications.

As a floor standing model can be semi or fully recessed without loss of capacity. It achieves the set temperature quickly as it supplies air from top and bottom or from top only. Additionally, with the vertical auto swing and the wide-angle louvers, it offers an increased air flow coverage and ensures that warm air reaches the furthest corner of the room.

FEATURES

- 3D Air Flow louvers
- Fresh air intake
- Built-in Drain Pump *(optional)*
- Auto Leak Detection
- Auto Defrost
- Auto Swing
- Auto Restart
- Timer
- Turbo Mode
- Sleep Mode
- Dry Mode
- "My" Mode
- Louver Function/ Horizontally
- Cold Draft Prevention
- Electrical Voltage Protection (168 to 264V)
- Bright LCD Screen Remote Control
- Wired Control

TECHNICAL CHARACTERISTICS

INDOOR UNIT OUTDOOR UNIT		42QZA012D8S-1 38QUS012D8S-1	42QZA018D8S-1 38QUS018D8S-1
Cooling capacity	kW	3.50 (0.77-3.97)	4.70 (2.64-5.13)
Heating capacity	kW	4.25 (0.46-4.35)	5.00 (2.20-5.24)
Heating capacity at -7°C	kW	2,80	4,40
Heating capacity at -10°C	kW	2,60	3,80
Heating capacity at -15°C	kW	2,40	3,20
SEER/SCOP(average)/SCOP(warmer)	W/W	7.5 / 4.0 / 5.5	6.5 / 4.0 / 5.0
Energy label		A++ / A+ / A+++	A++ / A+ / A++
Yearly energy consumption	kWh	163 / 945 / 865	253 / 1400 / 1400
EER/COP	W/W	3.40 / 3.83	3.01 / 3.22
Standard current (cooling)	A	4,5	7,0
Standard input (cooling)	W	1030	1560
Standard current (heating)	A	5,0	6,8
Standard input (heating)	W	1110	1550

INDOOR UNIT		42QZA012D8S-1	42QZA018D8S-1
Sound power level	dB(A)	58	60
Sound pressure level (high/med/low)	dB(A)	41.5/38.0/33.5	45.0/39.0/36.0
Air flow (high/med/low)	m^3/h	550/465/385	560/480/400
Weight	kg	14.6	14.7
Dimensions (W×D×H)(Body)	mm	700×210×600	700×210×600

OUTDOOR UNIT		38QUS012D8S-1	38QUS018D8S-1
Temp range cooling	°C	-15-50	
Temp range heating	°C	-15-24	
Liquid side/Gas side		1/4" - 3/8"	1/4" - 1/2"
Standard piping length	m	5	5
Min piping length	m	3	3
Max piping length	m	25	30
Max difference	m	10	20
Additional charge	g/m	12	12
Refrigerant amount	kgr	0.72	1.15
Sound power level (high/med/low)	dB(A)	59.40	60.71
Sound pressure level	dB(A)	54	57
Airflow	m^3/h	2200	2100
Weight	kg	26.6	32.5
Dimensions (W×D×H)	mm	765x303x555	805x330x554
Voltage/Hz/Ph		220-240V / 50Hz / 1Ph	

Notes:
** Sound data @ cooling mode*
** -7°C / -10°C / -15°C heating @ free frequency*

** Preliminary Data*

INVERTER FLOOR / UNDER-CEILING

XPOWER 42QZL

R32 REFRIGERANT

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

- Sleep Mode
- Dry Mode
- Auto Leak Detection

Slim and stylish with high performance

INVERTER UNDER-CELLING

XPOWER 42QZL

INSTALATION FLEXIBILITY

This unit is characterized by each installation flexibility as it can be installed either on the floor or on the ceiling.

Moreover, the connection pipe can be put into the unit from bottom, side or rear, which makes installation much easier. Additionally, both right side and left side drainage holes are available to avoid the space limitation for drainage pipe installation.

FEATURES

- 3D Air Flow louvers
- Built-in Drain Pump *(optional)*
- Auto Leak Detection
- Auto Defrost
- Auto Swing
- Auto Restart
- Timer
- Turbo Mode
- Sleep Mode
- Dry Mode
- "My" Mode
- Louver Function/ Horizontally
- Cold Draft Prevention
- Electrical Voltage Protection (168 to 264V)
- Bright LCD Screen Remote Control
- Wire Control (optional)

TECHNICAL CHARACTERISTICS

SINGLE PHASE

INDOOR UNIT		42QZL018D8S-2	42QZL024D8S	42QZL036D8S
OUTDOOR UNIT		38QUS018D8S-1	38QUS024D8S	38QUS036D8S
Cooling capacity	kW	5.30 (2.71-5.86)	7.20 (3.22-7.77)	10.50 (2.72-11.43)
Heating capacity	kW	5.60 (2.42-6.30)	7.40 (2.72-8.29)	12.30 (2.81-12.78)
Heating capacity at -7°C	kW	4,30	5,90	9,20
Heating capacity at -10°C	kW	3,70	5,00	7,45
Heating capacity at -15°C	kW	3,10	4,50	7,00
SEER/SCOP (average)/SCOP (warmer)	W/W	6.4 / 4.0 / 5.4	6.2 / 4.0 / 5.2	6.5 / 4.2 / 5.5
Energy label		A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++
Yearly energy consumption	kWh	290 / 1400 / 1322	406 / 1925 / 1615	565 / 2867 / 2596
EER/COP	W/W	3.63 / 3.73	2.99 / 3.90	2.66 / 3.62
Standard current (cooling)	A	6,5	10,5	17,5
Standard input (cooling)	W	1460	2410	3950
Standard current (heating)	A	6,6	8,5	15,0
Standard input (heating)	W	1500	1900	3400

INDOOR UNIT		42QZL018D8S-2	42QZL024D8S	42QZL036D8S
Sound power level	dB(A)	58	55	65
Sound pressure level (high/med/low/silence)	dB(A)	43.5 / 41.0 / 37.0 / 24.0	49.0 / 46.0 / 43.0 / 32.0	51.0 / 47.5 / 44.5 / 39.0
Air flow (high/med/low)	m^3/h	960/840/725	1190 / 1025 / 850	1955/1730/1505
Weight	kg	28.0	28.0	41.5
Dimensions (WxDxH)	mm	1068X675X235	1068X675X235	1650X675X235

OUTDOOR UNIT		38QUS018D8S-1	38QUS024D8S	38QUS036D8S
Temp range cooling	°C	-15-50		
Temp range heating	°C	-15-24		
Liquid side/Gas side		1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"
Standard piping length	m	5	5	5
Min piping length	m	3	3	3
Max piping length	m	30	50	65
Max difference	m	20	25	30
Additional charge	g/m	12	24	24
Refrigerant amount	kgr	1.15	1.50	2.40
Sound power level	dB(A)	63.19	64.12	68.66
Sound pressure level	dB(A)	57	60	63
Air flow	m^3/h	2100	3500	4000
Weight	kg	32.5	43.9	66.9
Dimensions (WxDxH)	mm	805X330X554	890×342×673	946×410×810
Voltage/Hz/Ph		220-240V / 50HZ / 1PH		

Notes:
** Sound data @ cooling mode*
** -7°C / -10°C / -15°C heating @ free frequency*

** Preliminary Data*

TECHNICAL CHARACTERISTICS

THREE PHASE

INDOOR UNIT		42QZL036D8S	42QZL048D8S	42QZL060D8S
OUTDOOR UNIT		38QUS036D8T	38QUS048D8T	38QUS060D8T
Cooling capacity	kW	10.80 (2.72-11.78)	14.00 (3.52-15.24)	15.50 (4.10-16.70)
Heating capacity	kW	12.30 (2.78-12.78)	15.60 (4.10-17.00)	18.30 (4.40-19.64)
Heating capacity at -7°C	kW	9,10	11,75	12,75
Heating capacity at -10°C	kW	7,50	10,90	11,50
Heating capacity at -15°C	kW	7,00	10,50	11,00
SEER/SCOP (average)/SCOP (warmer)	W/W	6.3 / 4.0 / 5.1	6.1 / 4.0 / 5.3	6.1 / 4.0 / 5.2
Energy label		A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++
Yearly energy consumption	kWh	600 / 3045 / 2745	803 / 3920 / 3117	889 / 4200 / 3392
EER/COP	W/W	2.66 / 3.61	2.69 / 3.06	2.72 / 3.05
Standard current (cooling)	A	6,5	9,0	10
Standard input (cooling)	W	4060	5200	5700
Standard current (heating)	A	6,0	9,0	10,5
Standard input (heating)	W	3410	5100	6000

INDOOR UNIT		42QZL036D8S	42QZL048D8S	42QZL060D8S
Sound power level	dB(A)	65	68	69
Sound pressure level (high/med/low/silence)	dB(A)	51.0 / 47.5 / 44.5 / 39.0	53.0 / 50.0 / 45.0 / 36.0	54.0 / 50.5 / 46.5 / 38.0
Air flow (high/med/low)	m^3/h	1955/1730/1505	2100/1850/1600	2200/1950/1650
Weight	kg	41.5	41.7	42.3
Dimensions (WxDxH)	mm	1650X675X235	1650X675X235	1650×675×235

OUTDOOR UNIT		38QUS036D8T	38QUS048D8T	38QUS060D8T
Temp range cooling	°C	-15-50		
Temp range heating	°C	-15-24		
Liquid side/Gas side		3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Standard piping length	m	5	5	5
Min piping length	m	3	3	3
Max piping length	m	65	65	65
Max difference	m	30	30	30
Additional charge	g/m	24	24	24
Refrigerant amount	kgr	2.40	2.90	3.00
Sound power level	dB(A)	66.65	70.94	70.51
Sound pressure level	dB(A)	63	63,5	64
Air flow	m^3/h	4000	7500	7500
Weight	kg	80.5	103.7	107.0
Dimensions (WxDxH)	mm	946×410×810	952×415×1333	952×415×1333
Voltage/Hz/Ph		380-415V / 50HZ / 3PH		

Notes:
** Sound data @ cooling mode*
** -7°C / -10°C / -15°C heating @ free frequency*

** Preliminary Data*

INVERTER CASSETTE

XPOWER 42QTD

R32 REFRIGERANT

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Sleep Mode

Dry Mode

TURBO Turbo Mode

Compact design for easy installation in any indoor application

INVERTER CASSETTE

XPOWER 42QTD

COMFORT FOR EVERYONE

By packing maximum cooling capacity into smallest possible dimension, Carrier Cassette is designed to cool /heat all spaces, big or small.

With the 360° Air Flow Panel, air is circulated throughout the whole space, offering optimum temperature distribution. Everyone's comfort is taken care of as each louver can be individually controlled.

The unit comes with standard built-in drain pump for your convenience. It can lift condensing water up to 750mm. The drain pump is now easily accessible with improved new design, enabling hassle free and shorter time during maintenance.

Additionally, reserved ports are available for long distance on-off remote control by connecting to a switch, and providing an alarm signal for external alarm light or vibration gauge.

FEATURES

- Built-in Drain Pump
- 360° Air Flow
- Auto Leak Detection
- Auto Defrost
- Auto Swing
- Auto Restart
- Timer
- Turbo Mode
- Sleep Mode
- Dry Mode
- "My" Mode
- Louver Function/ Horizontally
- Cold Draft Prevention
- Electrical Voltage Protection (168 to 264V)
- Bright LCD Screen Remote Control
- Remote Control (wireless)

TECHNICAL CHARACTERISTICS

		SINGLE PHASE					
INDOOR UNIT		42QTD012D8S-1	42QTD018D8S-2	42QSS024D8S	42QTD030D8S	42QTD036D8S	42QTD042D8S
OUTDOOR UNIT		38QUS012D8S-1	38QUS018D8S-1	38QUS024D8S	38QUS030D8S	38QUS036D8S	38QUS042D8S
Cooling capacity	kW	3.50 (0.85-4.11)	5.30 (2.90-5.59)	7.04 (3.30-7.91)	8.80 (2.23-9.38)	10.50 (3.90-10.60)	12.00 (2.93-12.31)
Heating capacity	kW	4.20 (0.47-4.31)	5.55 (2.37-6.10)	7.50 (2.81-8.94)	10.00 (2.70-9.73)	11.00 (2.90-13.50)	13.20 (3.37-14.07)
Heating cap. at -7°C	kW	3,00	4,10	6,00	6,40	9,20	9,30
Heating cap. at -10°C	kW	2,75	3,75	5,80	6,00	8,20	8,90
Heating cap. at -15°C	kW	2,50	3,50	5,20	5,40	7,40	7,90
SEER/SCOP (average) SCOP (warmer)	W/W	6.8 / 4.1 / 5.3	6.3 / 4.0 / 4.9	6.3 / 4.0 / 5.5	6.8 / 4.2 / 5.8	6.8 / 4.0 / 5.2	6.2 / 4.0 / 5.5
Energy label		A++ / A+ / A+++	A++ / A+ / A++	A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++
Yearly energy consumption	kWh	180 / 939 / 872	294 / 1470 / 1543	391 / 2100 / 1604	453 / 2500 / 1834	540 / 2870 / 2719	677 / 3325 / 2495
EER/COP	W/W	3.25 / 3.75	3.21 / 3.65	2.82 / 4.05	3.14 / 4.00	2.63 / 3.55	2.82 / 3.59
Standard current (cooling)	A	5,0	7,5	11,0	12,5	17,5	19,0
Standard input (cooling)	W	1075	1650	2500	2800	4000	4260
Standard current (heating)	A	5,2	7,0	8,5	11,0	13,5	16,5
Standard input (heating)	W	1120	1520	1850	2500	3100	3680
INDOOR UNIT		**42QTD012D8S-1**	**42QTD018D8S-2**	**42QSS024D8S**	**42QTD030D8S**	**42QTD036D8S**	**42QTD042D8S**
Sound power level	dB(A)	57	58	59	64	65	66
Sound pressure level (high/med/low/silence)	dB(A)	41.0/36.0/33.0/25.5	43.0/39.5/35.5/29.0	45.5/42.5/39.5/27.0	49.5/47.0/44.0/38.5	50.0/47.5/44.5/39.0	51.0/48.5/46.0/38.0
Air flow (high/med/low)	m^3/h	620/510/420	720/620/500	1300/1140/1000	1720/1550/1400	1700/1550/1380	1900/1750/1600
Weight (Body)	kg	16.3	16.0	21.6	24.6	27.2	29.3
Weight (Panel)	kg	2.5	2.5	6.0	6.0	6.0	6.0
Dimensions (WxDxH) (Body)	mm	570x570x260	570x570x260	830x830x205	830x830x245	830x830x245	830x830x287
Dimensions (WxDxH) (Panel)	mm	647x647x50	647x647x50	950×950×55	950×950×55	950x950x55	950x950x55
OUTDOOR UNIT		**38QUS012D8S-1**	**38QUS018D8S-1**	**38QUS024D8S**	**38QUS030D8S**	**38QUS036D8S**	**38QUS042D8S**
Temp range cooling	°C	-15-50					
Temp range heating	°C	-15-24					
Liquid side/Gas side		1/4" - 3/8"	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Standard piping length	m	5	5	5	5	5	5
Min piping length	m	3	3	3	3	3	3
Max piping length	m	25	30	50	50	65	65
Max difference	m	10	20	25	25	30	30
Additional charge	g/m	12	12	24	24	24	24
Refrigerant amount	kg	0.72	1.15	1.50	2.0	2.40	2.80
Sound power level	dB(A)	58.78	61	66	68.83	68.09	69.77
Sound pressure level	dB(A)	54	57	60	61.5	63	63
Air flow	m^3/h	2200	2100	3500	3800	4000	4000
Weight	kg	26.6	32.5	43.9	52.8	66.9	71.0
Dimensions (WxDxH)	mm	765X303X555	805X330X554	890×342×673	946×410×810	946×410×810	946×410×810
Voltage/Hz/Ph		220-240V / 50Hz / 1Ph					

Notes:
** Sound data @ cooling mode*
** -7°C / -10°C / -15°C heating @ free frequency*

** Preliminary Data*

TECHNICAL CHARACTERISTICS

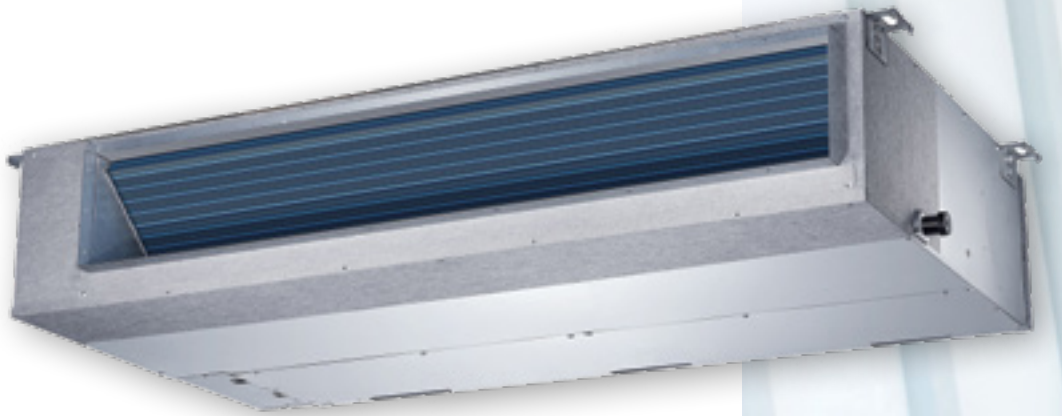
		THREE PHASE		
INDOOR UNIT		**42QTD036D8S**	**42QTD048D8S**	**42QTD060D8S**
OUTDOOR UNIT		**38QUS036D8T**	**38QUS048D8T**	**38QUS060D8T**
Cooling capacity	kW	10.50 (4.00-10.70)	14.00 (3.52-15.83)	15.00 (5.20-16.70)
Heating capacity	kW	11.00 (2.90-14.10)	16.00 (4.10-17.29)	18.00 (4.30-19.30)
Heating capacity at -7°C	kW	8,9	12,5	13,5
Heating capacity at -10°C	kW	7,6	10,5	11,5
Heating capacity at -15°C	kW	7,00	10,3	11
SEER/SCOP (average)/SCOP (warmer)	W/W	6.4 / 4.0 / 5.1	6.1 / 4.0 / 5.1	6.3 / 4.0 / 5.2
Energy label		A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++
Yearly energy consumption	kWh	574 / 2800 / 2772	803 / 3780 / 3294	833 / 4130 / 3365
EER/COP	W/W	2.59 / 3.61	3.01 / 3.49	2.97 / 3.21
Standard current (cooling)	A	6,5	8,5	9
Standard input (cooling)	W	4050	4650	5050
Standard current (heating)	A	5,5	8	10
Standard input (heating)	W	3050	4580	5600
INDOOR UNIT		**42QTD036D8S**	**42QTD048D8S**	**42QTD060D8S**
Sound power level	dB(A)	65	66	67
Sound pressure level (high/med/low/silence)	dB(A)	50.0/47.5/44.5/39.0	51.0/48.5/46.5/37.5	53.0/50.5/48.0/40.0
Air flow (high/med/low)	m^3/h	1700/1550/1380	1970/1780/1580	2000/1850/1650
Weight (Body)	kg	27.2	29.3	29.3
Weight (Panel)	kg	6.0	6.0	6.0
Dimensions (WxDxH) (Body)	mm	830x830x245	830×830×287	830×830×287
Dimensions (WxDxH) (Panel)	mm	950x950x55	950×950×55	950×950×55
OUTDOOR UNIT		**38QUS036D8T**	**38QUS048D8T**	**38QUS060D8T**
Temp range cooling	°C	-15-50		
Temp range heating	°C	-15-24		
Liquid side/Gas side		3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Standard piping length	m	5	5	5
Min piping length	m	3	3	3
Max piping length	m	65	65	65
Max difference	m	30	30	30
Additional charge	g/m	24	24	24
Refrigerant amount	kgr	2.40	2.90	3.00
Sound power level	dB(A)	68.25	71.44	72.12
Sound pressure level	dB(A)	63	63,5	64
Air flow	m^3/h	4000	7500	7500
Weight	kg	80.5	103.7	107.0
Dimensions (WxDxH)	mm	946×410×810	952×415×1333	952×415×1333
Voltage/Hz/Ph		380-415V / 50Hz / 3Ph		

Notes:
** Sound data @ cooling mode*
** -7°C / -10°C / -15°C heating @ free frequency*

** Preliminary Data*

INVERTER DUCTED

XPOWER 42QSS



R32 REFRIGERANT

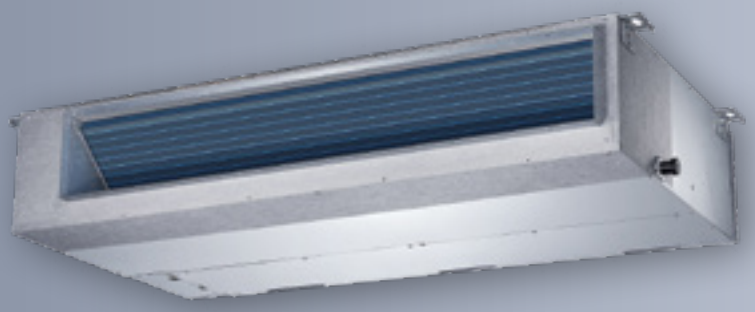
EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

- Sleep Mode
- Dry Mode
- Auto Leak Detection

Compact and versatile is the ideal choice for new or refurbished buildings

INVERTER DUCTED

XPOWER 42QSS



DISCREET COMFORT

Carrier duct unit has slim design with reduced height, suitable for low-ceiling installations. It comes ready with the option of fresh air intake function when connected to additional ventilation duct.

Whether return air is required from the rear or bottom, both can be easily achieved on-site by changing over the cover, as both air inlet have the same frame size.

Moreover, the unit is designed with wide external static pressure ranges from 0 Pa to 160 Pa, suitable for short or long duct, with or without damper. Equipped with constant air volume control technology, Carrier Concealed Duct automatically adjusts the static pressure to deliver constant air volume for optimal occupants' comfort. Moreover, reserved ports are available for long distance on-off remote control by connecting to a switch, and providing an alarm signal for external alarm light or vibration gauge.

FEATURES

- Built-in Drain Pump *(optional)*
- Auto Leak Detection
- Auto Defrost
- Auto Swing
- Auto Restart
- Timer
- Turbo Mode
- Sleep Mode
- Dry Mode
- "My" Mode
- Louver Function/Horizontally
- Cold Draft Prevention
- Electrical Voltage Protection (168 to 264V)
- Bright LCD Screen Remote Control
- Twin function
- Wired Control

TECHNICAL CHARACTERISTICS

		SINGLE PHASE					
INDOOR UNIT		42QSS012D8S-1	42QSS018D8S-1	42QSS024D8S	42QSS030D8S	42QSS036D8S	42QSS042D8S
OUTDOOR UNIT		38QUS012D8S-1	38QUS018D8S-1	38QUS024D8S	38QUS030D8S	38QUS036D8S	38QUS042D8S
Cooling capacity	kW	3.50 (0.53-3.99)	5.40 (2.55-5.86)	7.10 (3.28-8.16)	8.75 (2.23-9.85)	10.50 (2.75-11.14)	12.00 (2.93-12.31)
Heating capacity	kW	4.40 (1.00-4.39)	5.80 (2.20-6.15)	7.45 (2.81-8.49)	9.30 (2.70-10.02)	12.10 (2.78-12.78)	13.50 (3.37-14.07)
Heating cap. at -7°C	kW	3,0	4,45	6,1	6,5	9,1	9,6
Heating cap. at -10°C	kW	2,7	3,75	5,5	6,0	8,1	8,8
Heating cap. at -15°C	kW	2,5	3,30	4,8	5,3	7,8	8,1
SEER/SCOP (average) SCOP (warmer)	W/W	6.3 / 4.0 / 5.1	6.6 / 4.0 / 5.1	6.2 / 4.0 / 5.2	6.8 / 4.0 / 5.7	6.3 / 4.0 / 5.3	6.2 / 4.0 / 5.6
Energy label		A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A+++
Yearly energy consumption	kWh	194 / 945 / 933	286 / 1505 / 1455	401 / 1890 / 1561	450 / 2800 / 2014	583 / 2940 /2589	677 / 3255 / 2550
EER/COP	W/W	3.27 / 3.78	3.48 / 3.82	3.15 / 4.14	3.43 / 4.04	2.63 / 3.69	2.86 / 3.91
Standard current (cooling)	A	4,8	6,8	10,0	11,5	17,5	18,5
Standard input (cooling)	W	1070	1550	2250	2550	4000	4200
Standard current (heating)	A	5,3	6,7	8,0	10,0	14,5	15,0
Standard input (heating)	W	1165	1520	1800	2300	3280	3450
INDOOR UNIT		**42QSS012D8S-1**	**42QSS018D8S-1**	**42QSS024D8S**	**42QSS030D8S**	**42QSS036D8S**	**42QSS042D8S**
Sound power level	dB(A)	58	58	62	64	62,0	67,0
Sound pressure level (high/med/low/silence)	dB(A)	34.5/30.5/29.0/23.0	41.0/38.0/34.0/26.0	49.0/46.0/41.0	50.5/48.0/46.0	50.0/48.0/46.0	51.5/49.0/48.0
Air flow (high/med/low)	m^3/h	600/480/300	910/710/515	1230/1035/825	2100/1800/1500	2100/1800/1500	2400 / 2040 / 1680
Weight	kg	17.8	24.4	32.3	40.5	40.5	47.6
Dimensions (WxDxH)	mm	700×506×200	880X674X210	1100X774X249	1360×774×249	1360X774X249	1200×874×300
OUTDOOR UNIT		**38QUS012D8S-1**	**38QUS018D8S-1**	**38QUS024D8S**	**38QUS030D8S**	**38QUS036D8S**	**38QUS042D8S**
Temp range cooling	°C	-15-50					
Temp range heating	°C	-15-24					
Liquid side/Gas side		1/4" - 3/8"	1/4" - 1/2"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Standard piping length	m	5	5	5	5	5	5
Min piping length	m	3	3	3	3	3	3
Max piping length	m	25	30	50	50	65	65
Max difference	m	10	20	25	25	30	30
Additional charge	g/m	12	12	24	24	24	24
Refrigerant amount	kg	0.72	1.15	1.50	2.0	2.40	2.80
Sound power level	dB(A)	59.10	64	65	68.30	68.54	72.19
Sound pressure level	dB(A)	54	57	60	61.5	63	63
Air flow	m^3/h	2200	2100	3500	3800	4000	4000
Weight	kg	26.6	32.5	43.9	52.8	66.9	71.0
Dimensions (WxDxH)	mm	765X303X555	805X330X554	890×342×673	946×410×810	946×410×810	946×410×810
Voltage/Hz/Ph		220-240V / 50Hz / 1Ph					

Notes:
** Sound data @ cooling mode*
**-7°C/-10°C/-15°C heating @ free frequency*

** Preliminary Data*

TECHNICAL CHARACTERISTICS

		THREE PHASE		
INDOOR UNIT		**42QSS036D8S**	**42QSS048D8S**	**42QSS060D8S**
OUTDOOR UNIT		**38QUS036D8T**	**38QUS048D8T**	**38QUS060D8T**
Cooling capacity	kW	10.60 (2.73-11.78)	14.10 (3.52-15.53)	15.40 (4.10-17.30)
Heating capacity	kW	12.10 (2.78-12.84)	15.50 (4.10-18.17)	18.30 (4.40-20.50)
Heating capacity at -7°C	kW	9,1	12,8	13,2
Heating capacity at -10°C	kW	7,6	11,45	12,0
Heating capacity at -15°C	kW	7,0	10,8	11,7
SEER/SCOP (average)/ SCOP (warmer)	W/W	6.1 / 4.0 / 5.1	6.1 / 4.0 / 5.0	6.1 / 4.0 / 5.2
Energy label		A++ / A+ / A+++	A++ / A+ / A++	A++ / A+ / A+++
Yearly energy consumption	kWh	608 / 3080 / 2745	809 / 4095 / 3220	884 / 4445 / 3446
EER/COP	W/W	2.62 / 3.67	2.79 / 3.44	2.93 / 3.52
Standard current (cooling)	A	6,5	8,5	9,6
Standard input (cooling)	W	4050	5050	5250
Standard current (heating)	A	5,8	8,0	9,5
Standard input (heating)	W	3300	4500	5200
INDOOR UNIT		**42QSS036D8S**	**42QSS048D8S**	**42QSS060D8S**
Sound power level	dB(A)	62,0	67,0	67,0
Sound pressure level (high/med/low/silence)	dB(A)	49.5/48.0/46.0/42.0	50.0/49.0/47.0/42.0	52.5/49.0/47.0/40.0
Air flow (high/med/low)	m^3/h	2100/1800/1500	2400 / 2040 / 1680	2600 / 2210 / 1820
Weight	kg	40.5	47.6	47.4
Dimensions (WxDxH)	mm	1360x774x249	1200x874x300	1200×874×300
OUTDOOR UNIT		**38QUS036D8T**	**38QUS048D8T**	**38QUS060D8T**
Temp range cooling	°C	-15-50		
Temp range heating	°C	-15-24		
Liquid side/Gas side		3/8" - 5/8"	3/8" - 5/8"	3/8" - 5/8"
Standard piping length	m	5	5	5
Min piping length	m	3	3	3
Max piping length	m	65	65	65
Max difference	m	30	30	30
Additional charge	g/m	24	24	24
Refrigerant amount	kgr	2.40	2.90	3.00
Sound power level	dB(A)	68.5	71.82	72.25
Sound pressure level	dB(A)	63	63,5	64
Air flow	m^3/h	4000	7500	7500
Weight	kg	80.5	103.7	107.0
Dimensions (WxDxH)	mm	946×410×810	952×415×1333	952×415×1333
Voltage/Hz/Ph		380-415V / 50Hz / 3Ph		

Notes:
** Sound data @ cooling mode*
**-7°C/-10°C/-15°C heating @ free frequency*

** Preliminary Data*

INVERTER STANDING

XPower 42QFD

TURBO Turbo Mode

Auto Leak Detection

Dry Mode

R32 REFRIGERANT

Elegant appearance and ultimate comfort with energy efficiency

INVERTER FLOOR STANDING

XPower 42QFD

SIMPLE DESIGN CONCEPT

Carrier Floor Standing unit adopts simple design that complements any interior design style, in addition to keeping you cool and comfortable.

A large LCD display is integrated for easy operation. You can view the key indicators at one glance and make adjustment easily via buttons lined up.

The air outlet louver closes automatically to keep dust away when the unit is turned off, minimizing maintenance and cleaning required.

In the case of abnormal operation, the auto protection system will shut down the unit automatically to avoid any risk and prevent further deterioration. The error code showed on display enables engineers to identify the problem quickly, according to maintenance book.

FEATURES

- 3D Air Flow louvers
- Auto Mode
- Smart LCD display
- Auto Leak Detection
- Auto Defrost
- Auto Swing
- Auto Restart
- Lock function
- Timer
- Turbo Mode
- Sleep Mode
- Dry Mode
- “My” Mode
- Cold Draft Prevention
- Electrical Voltage Protection (168 to 264V)

TECHNICAL CHARACTERISTICS

INDOOR UNIT		42QFD048R8S
OUTDOOR UNIT		**38QUS048R8T**
Cooling capacity	kW	14.60 (4.95-15.45)
Heating capacity	kW	16.10 (4.40-18.50)
Heating capacity at -7 °C	kW	13,40
Heating capacity at -10 °C	kW	11,30
Heating capacity at -15 °C	kW	10,00
SEER/SCOP (average)/SCOP (warmer)	W/W	6.1/4.0/5.1
Energy label		A++ / A+ / A+++
Yearly energy consumption	kWh	838/3850/3240
EER/COP	W/W	2.81/3.10
Standard current (cooling)	A	8
Standard input (cooling)	W	5195
Standard current (heating)	A	8,5
Standard input (heating)	W	5200

INDOOR UNIT		**42QFD048R8S**
Sound power level	dB(A)	66
Sound pressure level (high/med/low)	dB(A)	55/53/51.5
Air flow (high/med/low)	m^3/h	2413/2222/2027
Weight	kg	58.4
Dimensions (W×D×H)	mm	1935×629×456

OUTDOOR UNIT		**38QUS048R8T**
Temp range cooling	°C	-15-50
Temp range heating	°C	-15-24
Liquid side/Gas side		3/8" - 5/8"
Standard piping length	m	5
Min piping length	m	3
Max piping length	m	65
Max difference	m	30
Additional charge	g/m	24
Refrigerant amount (R32)	kgr	2.8
Sound power level	dB(A)	75
Sound pressure level	dB(A)	66
Air flow	m^3/h	7500
Weight	kg	107.0
Dimensions (W×D×H)	mm	952×415×1333
Voltage/Hz/Ph	-	380-415V / 50Hz / 3Ph

Notes:
Cooling Capacities are based on 27ºC (DB) / 19ºC (WB) indoor air temperature and 35ºC (DB) / 24ºC (WB) outdoor air temperature.
Heating Capacities are based on 20ºC (DB) / 15ºC (WB) indoor air temperature and 7ºC (DB) / 6ºC (WB) outdoor air temperature.
WxDxH = Width x Depth x Height

** Preliminary Data*

AHI CARRIER EUROPE

Represents the European activities of AHI CARRIER Fzc in South Eastern & Central Europe and has the distribution & after-sales services rights of Carrier, Toshiba and Totaline HVAC brands of Carrier Corporation.

AHI CARRIER FZC is one of the largest Carrier Joint Venture distributing companies sharing common vision and values with Carrier Corporation.

It was formed in December 2008 between Carrier Corporation and Air-conditioning & Heating International (AHI) and become the authorised distributor of Carrier Corporation HVAC product ranges in Central & South Eastern Europe, Russia, CIS, New Zealand, Central East & South Africa and parts of Middle East.

AHI CARRIER EUROPE consists a region of 15 countries with Headquarters in Athens and affiliated offices in Sofia, Bucharest, Vienna and Prague.

GREECE AHI Carrier S.E. Europe Single Member S.A.
AUSTRIA AHI Carrier GmbH
BULGARIA AHI Carrier HVAC Bulgaria EOOD
CZECH REPUBLIC AHI Carrier CZ S.R.O.
ROMANIA AHI Carrier România SRL

DISTRIBUTION COUNTRIES

Greece • Austria • Bulgaria • Czech Republic • Romania • Albania • Bosnia & Herzegovina • Croatia • Cyprus • Hungary • N. Macedonia • Montenegro • Serbia • Slovakia • Slovenia

CARRIER

TOSHIBA & CARRIER

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