

LIGHT COMMERCIAL PRODUCTS

CATALOGUE 2020 - 2021



WE PROVIDE HVAC SOLUTIONS

for every professional need



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Carrier is a world leader

A woman is riding a bicycle in a field of tall grass at sunset. The sun is low on the horizon, creating a warm, golden glow. Several birds are flying in the sky above the woman. The overall scene is peaceful and serene.

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.

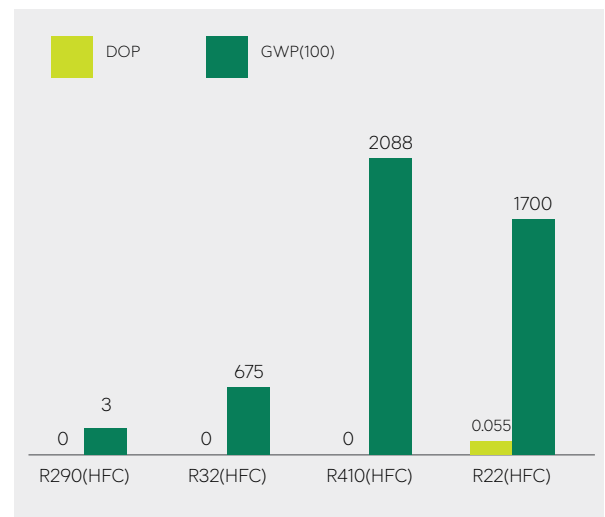


Products that have been certified for their performance and efficiency by Eurovent will feature the Eurovent Certification logo.

ENVIRONMENTAL 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 commercial heating and air-conditioning solutions for light commercial and 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.

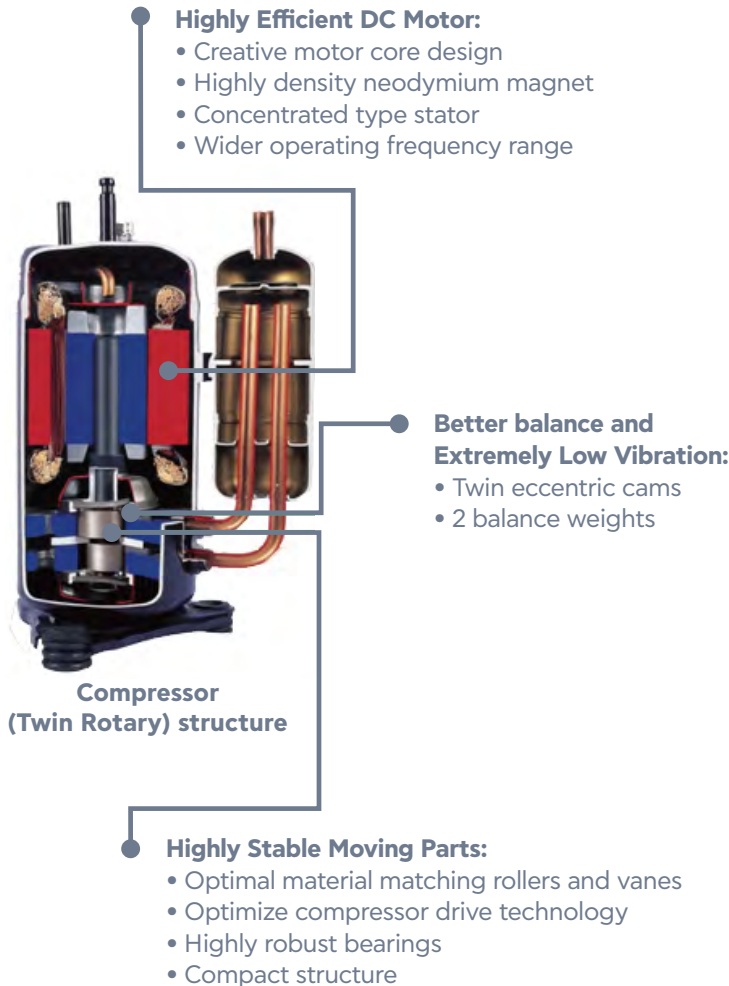
The compressor speed modulates automatically, much like a car on cruise control, so the system isn't constantly running at maximum capacity and only draws energy when it's needed.

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.



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.

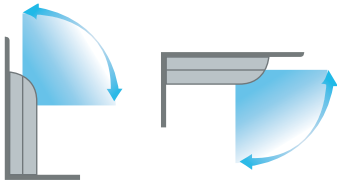
Several sensors placed in key positions on the refrigerant circuit electronically detect the operational state of the system. A micro controller unit receives the inputs from the sensors, elaborates them using advanced algorithms and optimizes the refrigerant flow and the operation of the compressor,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

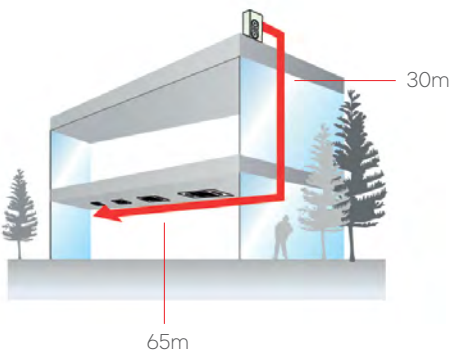
Carrier units have been designed to match all project requirements, with features that make installation more flexible to any given space.



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



360° Air Flow



- **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.

- **Piping:** 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:** With the reserved ports, a remote switch can be easily connected for a remote control. The built-in PCB can produce alarm signal which can be connected to an external alarm light or vibration gauge.

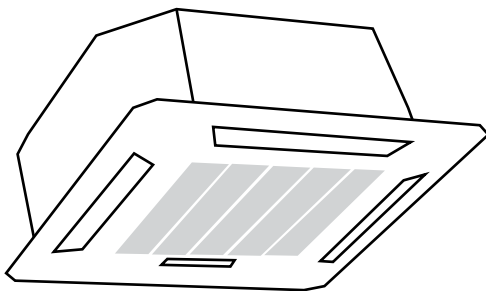
- **Built-in Drain Pump:** The drain pump can remove the condensing water from the unit, up to 750mm high. The drainage piping is easy to install even at narrow spaces.

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

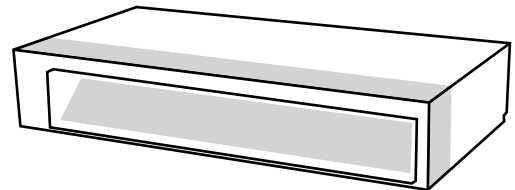
COMPLETE RANGE

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:



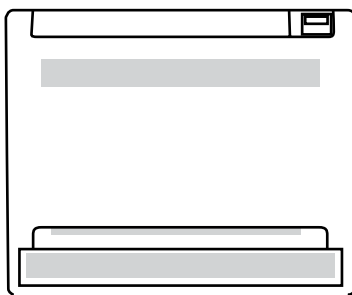
4-Way cassette with compact design



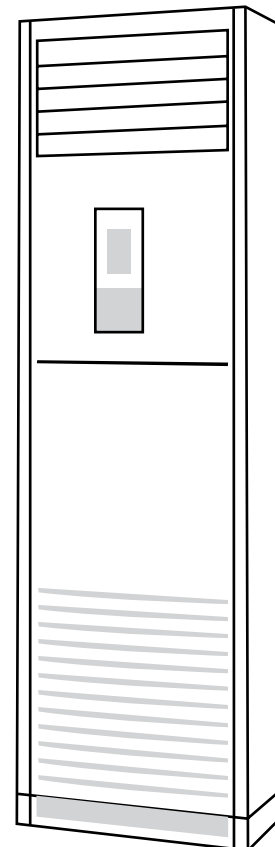
Ducted unit with low profile



Under-ceiling unit with slim body



Console unit



Free Standing 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

TURBO

ECO

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

With the reserved ports, a remote switch can be easily connected for a remote control. The built-in PCB can produce alarm signal which can be connected to an 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 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.



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 night time 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!



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 Mode



Dry Mode



Auto Leak Detection

R32
REFRIGERANT





**Ultimate
comfort**

INVERTER CONSOLE XPower 42QZA



INSTALLATION FLEXIBILITY

















- Fresh air intake:

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 (optional).

- Reserved dry contact ports:

With the reserved ports, a remote switch can be easily connected for a remote control. The built-in PCB can produce alarm signal which can be connected to an external alarm light or vibration gauge.

FEATURES

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

TECHNICAL CHARACTERISTICS

INDOOR UNIT

OUTDOOR UNIT

		42QZA012D8S
		38QUS012D8S
Cooling capacity	kW	3.52(1.50-5.00)
Heating capacity	kW	4.50(1.00-5.60)
Heating capacity at -7°C	kW	4,10
Heating capacity at -10°C	kW	3,70
Heating capacity at -15°C	kW	3,50
SEER/SCOP(average)/SCOP(warmer)	W/W	7.7/4.3/5.1
Energy label		A++/A+/A+++
Yearly energy consumption	kWh	160/1140/961
EER/COP	W/W	3.87/3.72
Standard current (cooling)	A	4,10
Standard input (cooling)	W	910
Standard current (heating)	A	5,40
Standard input (heating)	W	1210

INDOOR UNIT

		42QZA012D8S
Sound power level	dB(A)	55
Sound pressure level (high/med/low)	dB(A)	43/41/35
Air flow (high/med/low)	m ³ /h	530/480/360
Weight	kg	15.0
Dimensions (W×D×H)(Body)	mm	700×210×600

OUTDOOR UNIT

		38QUS012D8S
Temp range cooling	°C	-15-50
Temp range heating	°C	-15-24
Liquid side/Gas side		1/4" - 3/8"
Standard piping length	m	5
Min piping length	m	3
Max piping length	m	25
Max difference	m	10
Additional charge	g/m	12
Refrigerant amount	kg	0.87
Sound power level	dB(A)	63
Sound pressure level	dB(A)	56
Airflow	m ³ /h	2000
Weight	kg	34.7
Dimensions (W×D×H)	mm	800×333×554
Voltage/Hz/Ph		220-240V / 50Hz / 1Ph

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

* Preliminary Data



INVERTER UNDER-CELLING XPOWER 42QZL



R32
REFRIGERANT



Sleep Mode



Dry Mode



Auto Leak Detection



**Slim and stylish
with high
performance**

INVERTER UNDER-CELLING XPOWER 42QZL



INSTALLATION FLEXIBILITY

- Floor or ceiling installation:

The unit can be installed either on the floor or on the ceiling. It has 3-way piping sockets and 2-way drainage directions that allow for easy installation in every position.

- Fresh air intake:

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 (optional).

- Reserved dry contact ports:

With the reserved ports, a remote switch can be easily connected for a remote control. The built-in PCB can produce alarm signal which can be connected to an external alarm light or vibration gauge.

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



Wired Control

TECHNICAL CHARACTERISTICS

SINGLE PHASE

INDOOR UNIT

OUTDOOR UNIT

		42QZL018D8S-1	42QZL024R8S	42QZL036R8S
		38QUS018D8S	38QUS024R8S	38QUS036R8S
Cooling capacity	kW	5.30 (2.71-5.57)	7.05(3.20-7.70)	10.50(3.90-10.70)
Heating capacity	kW	5.57(2.42-6.30)	7.40(2.70-8.30)	12.50(2.90-13.50)
Heating capacity at -7°C	kW	4,50	5,30	9,80
Heating capacity at -10°C	kW	4,00	5,50	8,40
Heating capacity at -15°C	kW	3,60	4,90	8,20
SEER/SCOP (average)/SCOP (warmer)	W/W	6.1/4.0/5.1	6.3 / 4.0 / 5.0	6.6 / 4.0 / 5.1
Energy label		A++/A+/A+++	A++ / A+ / A++	A++ / A+ / A+++
Yearly energy consumption	kWh	304/1435/1373	392 / 1855 / 1372	557 / 3045 / 2910
EER/COP	W/W	3.25/3.71	3.07 / 3.47	2.65 / 3.62
Standard current (cooling)	A	7,2	10,1	17,1
Standard input (cooling)	W	1630	2230	3830
Standard current (heating)	A	6,6	9,7	15,3
Standard input (heating)	W	1500	2130	3450

INDOOR UNIT

42QZL018D8S-1

42QZL024R8S

42QZL036R8S

		42QZL018D8S-1	42QZL024R8S	42QZL036R8S
Sound power level	dB(A)	61	62	63
Sound pressure level (high/med/low)	dB(A)	44/42/36	49 / 46 / 41	50 / 46 / 42
Air flow (high/med/low)	m³/h	880/760/650	1200 / 1070 / 850	2160 / 1840 / 1430
Weight	kg	28.0	27.0	41.2
Dimensions (WxDxH)	mm	1068X675X235	1068×675×235	1650×675×235

OUTDOOR UNIT

38QUS018D8S

38QUS024R8S

38QUS036R8S

		38QUS018D8S	38QUS024R8S	38QUS036R8S
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	kg	1.15	1.5	2.4
Sound power level	dB(A)	64	67	69
Sound pressure level	dB(A)	57	61	64
Air flow	m³/h	2000	2700	4000
Weight	kg	33.7	49.5	67.0
Dimensions (WxDxH)	mm	800X333X554	845×363×702	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

OUTDOOR UNIT

		42QZL036R8S	42QZL048R8S	42QZL060R8S
		38QUS036R8T	38QUS048R8T	38QUS060R8T
Cooling capacity	kW	10.50(3.90-11.20)	14.00(4.90-15.10)	15.40(5.20-17.00)
Heating capacity	kW	10.80(2.80-13.90)	15.60(3.80-18.00)	18.00(4.30-19.60)
Heating capacity at -7°C	kW	9,70	11,10	11,50
Heating capacity at -10°C	kW	8,30	10,50	11,10
Heating capacity at -15°C	kW	8,20	8,60	9,90
SEER/SCOP (average)/SCOP (warmer)	W/W	6.5 / 4.0 / 5.1	6.1 / 4.0 / 4.8	6.1 / 4.0 / 5.1
Energy label		A++ / A+ / A+++	A++ / A+ / A++	A++ / A+ / A+++
Yearly energy consumption	kWh	565 / 3045 / 2471	803 / 3885 / 3529	884 / 4130 / 3376
EER/COP	W/W	2.80 / 3.65	2.55 / 2.85	2.55 / 2.95
Standard current (cooling)	A	6,7	9,1	10,1
Standard input (cooling)	W	4000	5500	6050
Standard current (heating)	A	5,1	8,2	10,2
Standard input (heating)	W	2950	5030	6100

INDOOR UNIT

42QZL036R8S

42QZL048R8S

42QZL060R8S

		42QZL036R8S	42QZL048R8S	42QZL060R8S
Sound power level	dB(A)	63	66	68
Sound pressure level (high/med/low)	dB(A)	50 / 46 / 42	54 / 50 / 46	54 / 47 / 43
Air flow (high/med/low)	m³/h	2160 / 1840 / 1430	2330 / 1930 / 1420	2450 / 1830 / 1430
Weight	kg	41.5	41.2	41.4 / 47.8
Dimensions (WxDxH)	mm	1650×675×235	1650×675×235	1650×675×235

OUTDOOR UNIT

38QUS036R8T

38QUS048R8T

38QUS060R8T

		38QUS036R8T	38QUS048R8T	38QUS060R8T
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	kg	2.4	2.8	2.95
Sound power level	dB(A)	69	75	77
Sound pressure level	dB(A)	64	66	66
Air flow	m³/h	4000	7500	7500
Weight	kg	81.5	107.0	112.0
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



Sleep Mode



Dry Mode



Turbo Mode





**Compact design
for easy installation
in any indoor application**

INVERTER CASSETTE XPOWER 42QTD



INSTALLATION FLEXIBILITY

- Compact design:

With its small size it can fit to all suspended ceiling installations. It is ideal for offices and large spaces.

- 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.

- Fresh air intake:

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.

- Reserved dry contact ports:

With the reserved ports, a remote switch can be easily connected for a remote control. The built-in PCB can produce alarm signal which can be connected to an 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



Wired Control

TECHNICAL CHARACTERISTICS

SINGLE PHASE

INDOOR UNIT

OUTDOOR UNIT

		42QTD012D8S	42QTD018D8S-1	42QTD024R8S	42QTD036R8S
		38QUS012D8S	38QUS018D8S	38QUS024R8S	38QUS036R8S
Cooling capacity	kW	3.50(1.52-5.28)	5.30(2.90-5.74)	7.05(3.20-7.90)	10.50(3.90-10.60)
Heating capacity	kW	4.40(1.03-5.57)	5.42(2.37-6.10)	7.20(2.80-8.80)	10.60(2.90-13.50)
Heating capacity at -7°C	kW	4,1	4,7	5,40	9,70
Heating capacity at -10°C	kW	3,8	4,1	5,00	8,30
Heating capacity at -15°C	kW	3,6	3,7	3,70	8,20
SEER/SCOP (average)/SCOP (warmer)	W/W	7.8/4.6/5.1	6.1/4.0/4.9	6.1 / 4.0 / 5.1	6.1 / 4.0 / 4.9
Energy label		A++/A+/A+++	A++/A+/A++	A++ / A+ / A+++	A++ / A+ / A++
Yearly energy consumption	kWh	157/959/961	304/1470/1525	405 / 1855 / 1620	602 / 3045 / 3000
EER/COP	W/W	4.12/4.00	3.25/3.71	2.95 / 3.93	2.61 / 3.53
Standard current (cooling)	A	3,8	7,2	9,9	16,5
Standard input (cooling)	W	850	1630	2180	3740
Standard current (heating)	A	5	6,4	8,4	13,3
Standard input (heating)	W	1100	1460	1830	2970

INDOOR UNIT

42QTD012D8S

42QTD018D8S-1

42QTD024R8S

42QTD036R8S

		42QTD012D8S	42QTD018D8S-1	42QTD024R8S	42QTD036R8S
Sound power level	dB(A)	59	60	61	62
Sound pressure level (high/med/low)	dB(A)	42/39/36	45/42/36	46 / 43 / 40	51 / 49 / 46
Air flow (high/med/low)	m³/h	560/430/390	680/550/400	1380 / 1200 / 1030	1770 / 1620 / 1440
Weight (Body)	kg	16.5	16.5	24.0	27.5
Weight (Panel)	kg	2.5	2.5	6.0	6.0
Dimensions (WxDxH) (Body)	mm	570x570x260	662x662x317	840x840x205	840x840x245
Dimensions (WxDxH) (Panel)	mm	647x647x50	647x647x50	950x950x55	950x950x55

OUTDOOR UNIT

38QUS012D8S

38QUS018D8S

38QUS024R8S

38QUS036R8S

		38QUS012D8S	38QUS018D8S	38QUS024R8S	38QUS036R8S
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"
Standard piping length	m	5	5	5	5
Min piping length	m	3	3	3	3
Max piping length	m	25	30	50	65
Max difference	m	10	20	25	30
Additional charge	g/m	12	12	24	24
Refrigerant amount	kg	0.87	1.15	1.5	2.4
Sound power level	dB(A)	63	64	67	69
Sound pressure level	dB(A)	56	57	61	64
Air flow	m³/h	2000	2000	2700	4000
Weight	kg	34.7	33.7	49.5	67.0
Dimensions (WxDxH)	mm	800x333x554	800x333x554	845x363x702	946x410x810
Voltage/Hz/Ph		380-415V / 50Hz / 3Ph			

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



TECHNICAL CHARACTERISTICS

THREE PHASE

INDOOR UNIT

OUTDOOR UNIT

		42QTD036R8S	42QTD048R8S	42QTD060R8S
		38QUS036R8T	38QUS048R8T	38QUS060R8T
Cooling capacity	kW	10.50(4.00-10.70)	14.00(4.70-14.60)	15.40(5.20-16.70)
Heating capacity	kW	10.80(2.90-14.10)	15.60(3.90-16.80)	18.00(4.30-19.30)
Heating capacity at -7°C	kW	9,60	10,50	12,20
Heating capacity at -10°C	kW	8,20	10,00	11,90
Heating capacity at -15°C	kW	8,10	8,50	9,80
SEER/SCOP (average)/SCOP (warmer)	W/W	6.1 / 4.0 / 4.9	6.1 / 4.0 / 4.6	6.1 / 4.0 / 5.1
Energy label		A++ / A+ / A++	A++ / A+ / A++	A++ / A+ / A+++
Yearly energy consumption	kWh	602 / 2835 / 3000	803 / 3850 / 3591	884 / 4130 / 3376
EER/COP	W/W	2.80 / 3.71	2.72 / 3.10	2.53 / 2.94
Standard current (cooling)	A	6,6	9,2	10,2
Standard input (cooling)	W	3950	5150	6080
Standard current (heating)	A	5	8,2	10,3
Standard input (heating)	W	2910	5040	6130

INDOOR UNIT

42QTD036R8S

42QTD048R8S

42QTD060R8S

Sound power level	dB(A)	62	65	65
Sound pressure level (high/med/low)	dB(A)	51 / 49 / 46	52 / 50 / 48	53 / 50 / 48
Air flow (high/med/low)	m ³ /h	1770 / 1620 / 1440	1870 / 1700 / 1500	1970 / 1740 / 1540
Weight (Body)	kg	27,5	29,0	29,0
Weight (Panel)	kg	6,0	6,0	6,0
Dimensions (WxDxH) (Body)	mm	840×840×245	840×840×287	840×840×287
Dimensions (WxDxH) (Panel)	mm	950×950×55	950×950×55	950×950×55

OUTDOOR UNIT

38QUS036R8T

38QUS048R8T

38QUS060R8T

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	kg	2.4	2.8	2.95
Sound power level	dB(A)	69	75	77
Sound pressure level	dB(A)	64	66	66
Air flow	m ³ /h	4000	7500	7500
Weight	kg	81,5	107,0	112,0
Dimensions (WxDxH)	mm	946×410×810	952×415×1333	952×415×1333
Voltage/Hz/Ph		380-415V / 50Hz / 3Ph		

Notes:

* Sound data @ cooling mode

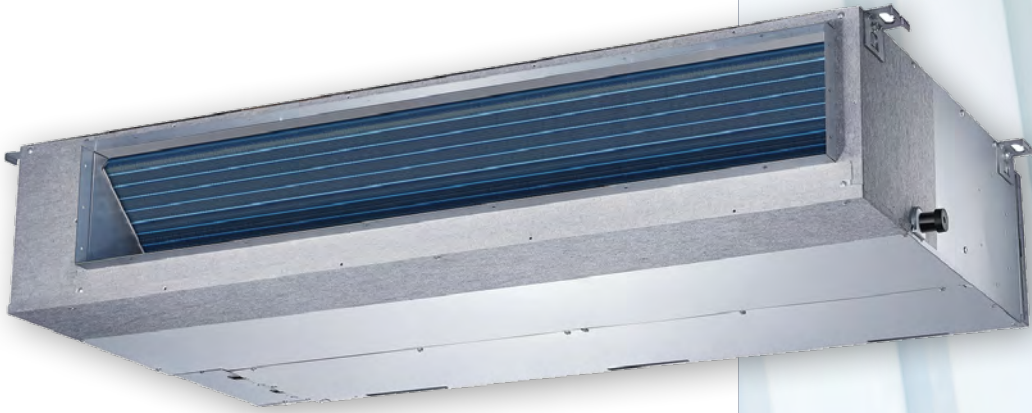
* -7°C / -10°C / -15°C heating @ free frequency

* Preliminary Data





INVERTER DUCTED XPOWER 42QSS



R32
REFRIGERANT



Sleep Mode



Dry Mode



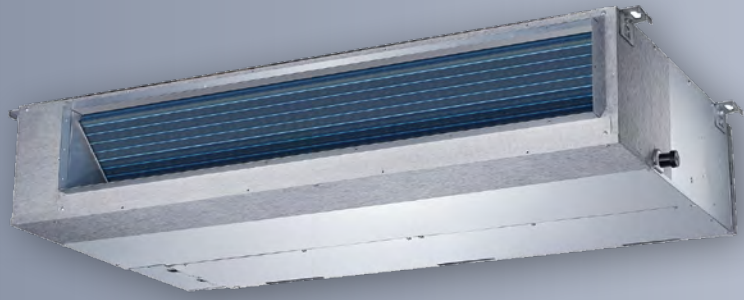
Auto Leak Detection





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

INVERTER DUCTED XPOWER 42QSS



INSTALLATION FLEXIBILITY

- Slim design:

The unit has slim design with reduced height, suitable for low-ceiling installations.

- Two way air inlet:

The unit offers air intake both from the back and bottom side, for more flexible installation.

- Fresh air intake:

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 (optional).

- 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.
















- Increased external static pressure:

The optimized air scroll design can deliver higher external static pressure.

- Reserved dry contact ports:

With the reserved ports, a remote switch can be easily connected for a remote control. The built-in PCB can produce alarm signal which can be connected to an external alarm light or vibration gauge.

FEATURES

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

TECHNICAL CHARACTERISTICS

		SINGLE PHASE					
INDOOR UNIT		42QSS012D8S	42QSS018D8S	42QSS024R8S	42QSS030R8S	42QSS036R8S	42QSS042R8S
OUTDOOR UNIT		38QUS012D8S	38QUS018D8S	38QUS024R8S	38QUS030R8S	38QUS036R8S	38QUS042R8S
Cooling capacity	kW	3.50(1.52-5.28)	5.30(2.55-5.69)	7.05(3.20-8.20)	8.80(2.23-9.82)	10.50(2.70-10.60)	12.40(2.58-13.40)
Heating capacity	kW	4.40(1.03-5.57)	5.86(2.20-6.15)	7.60(2.80-8.80)	9.38(6.74-11.14)	11.30(2.50-13.40)	13.46(2.05-14.85)
Heating cap. at -7°C	kW	4,1	4,70	5,30	7,00	10,30	10,80
Heating cap. at -10°C	kW	3,8	4,10	4,70	6,20	9,60	9,60
Heating cap. at -15°C	kW	3,6	3,70	3,50	5,60	8,30	8,60
SEER/SCOP (average) SCOP (warmer)	W/W	7.8/4.6/5.1	6.1/4.0/5.0	6.5 / 4.0 / 4.8	6.1 / 4.0 / 5.1	6.1 / 4.0 / 4.9	6.1 / 4.0 / 5.0
Energy label		A++/A+/A+++	A++/A+/A++	A++ / A+ / A++	A++ / A+ / A+++	A++ / A+ / A++	A++ / A+ / A++
Yearly energy consumption	kWh	157/959/961	304/1512/1464	380 / 1750 / 1633	505/2800/1920	602 / 2940 / 2857	711 / 3360 / 2996
EER/COP	W/W	4.12/4.00	3.25/3.71	3.23 / 3.88	3.38 / 4.08	2.52 / 3.55	3.40 / 3.66
Standard current (cooling)	A	3,8	7,2	10,3	11,8	17,5	16,0
Standard input (cooling)	W	850	1630	2260	2600	3950	3650
Standard current (heating)	A	5	7,0	9,0	10,6	14,1	16,2
Standard input (heating)	W	1100	1580	1960	2300	3180	3680
INDOOR UNIT		42QSS012D8S	42QSS018D8S	42QSS024R8S	42QSS030R8S	42QSS036R8S	42QSS042R8S
Sound power level	dB(A)	60	61,0	63	65	65	69
Sound pressure level (high/med/low)	dB(A)	42 / 36 / 30	45/38/33	42 / 40 / 38	45/42/39	45 / 42 / 39	53 / 51 / 49
Air flow (high/med/low)	m ³ /h	580 / 480 / 300	880/650/350	1250 / 1050 / 840	1400/1150/750	1400 / 1150 / 750	2400 / 2040 / 1680
Weight	kg	18.0 / 22.0	24.5/29.5	31.5 / 39.0	40.5/48.5	40.5	47.5
Dimensions (WxDxH)	mm	700×450×200	880×674×210	1100×774×249	1360×774×249	1360×774×249	1200×874×300
OUTDOOR UNIT		38QUS012D8S	38QUS018D8S	38QUS024R8S	38QUS030R8S	38QUS036R8S	38QUS036R8S
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	0.87	1.15	1,5	2.0	2,4	2,4
Sound power level	dB(A)	63	64	67	67	69	72
Sound pressure level	dB(A)	56	57	61	61	64	65
Air flow	m ³ /h	2000	2000	2700	3800	4000	3600
Weight	kg	34.7	33.7	49.5	56.9	67.0	73.9
Dimensions (WxDxH)	mm	800X333X554	800X333X554	845×363×702	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 OUTDOOR UNIT

		42QSS036R8S	42QSS048R8S	42QSS060R8S
		38QUS036R8T	38QUS048R8T	38QUS060R8T
Cooling capacity	kW	10.50(2.70-11.70)	14.00(4.20-15.20)	15.40(5.80-17.20)
Heating capacity	kW	11.60(2.50-13.50)	15.60(3.70-18.00)	18.00(4.60-20.50)
Heating capacity at -7°C	kW	9,90	11,60	12,60
Heating capacity at -10°C	kW	9,10	10,70	11,80
Heating capacity at -15°C	kW	8,10	9,10	10,20
SEER/SCOP (average)/ SCOP (warmer)	W/W	6.2 / 4.0 / 5.1	6.1 / 4.0 / 5.0	6.1 / 4.0 / 5.1
Energy label		A++ / A+ / A+++	A++ / A+ / A++	A++ / A+ / A+++
Yearly energy consumption	kWh	593 / 2800 / 2883	803 / 4130 / 3304	884 / 4200 / 3486
EER/COP	W/W	2.80 / 3.80	2.72 / 3.69	2.82 / 3.38
Standard current (cooling)	A	6,8	8,3	9
Standard input (cooling)	W	4070	5150	5470
Standard current (heating)	A	5,4	6,7	8,6
Standard input (heating)	W	3050	4230	5330

INDOOR UNIT

42QSS036R8S

42QSS048R8S

42QSS060R8S

Sound power level	dB(A)	65	69	71
Sound pressure level (high/med/low)	dB(A)	45 / 42 / 39	53 / 51 / 49	54 / 52 / 50
Air flow (high/med/low)	m ³ /h	1400 / 1150 / 750	2400 / 2040 / 1680	2600 / 2210 / 1820
Weight	kg	40.5	47.5	47.5
Dimensions (WxDxH)	mm	1360×774×249	1200×874×300	1200×874×300

OUTDOOR UNIT

38QUS036R8T

38QUS048R8T

38QUS060R8T

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	kg	2.4	2.8	2.95
Sound power level	dB(A)	69	75	77
Sound pressure level	dB(A)	64	66	66
Air flow	m ³ /h	4000	7500	7500
Weight	kg	81.5	107.0	112.0
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 Mode



Auto Leak Detection



Dry Mode

R32
REFRIGERANT



















**Elegant appearance
and ultimate comfort
with energy efficiency**

INVERTER STANDING XPower 42QFD



FEATURES

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

TECHNICAL CHARACTERISTICS

INDOOR UNIT

OUTDOOR UNIT

		42QFD048R8S
		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 (WxDxH)	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)	kg	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 (WxDxH)	mm	952×415×1333
Voltage/Hz/Ph	-	380-415V / 50Hz / 3Ph

Notes:

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

* Preliminary Data





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