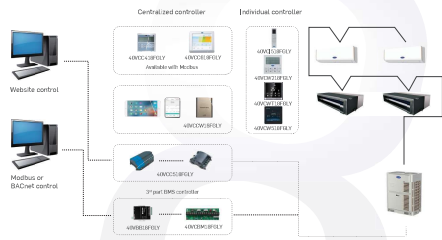


CONTROLLER LINE-UP



ACCESSORIES

AHU



Electrical part



EXV part

BRANCH



40VJ0568B-HGLY
40VJ0968B-HGLY



40VJ0888B-HGLY
40VJ0988B-HGLY
40VJ0588B-HGLY
40VJ0888B-HGLY
40VJ0988B-HGLY
40VJ1248B-HGLY

Sensors & wires



Controller

40VAD006PFPGLY

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or to talk to a distributor

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XCT8
Variable Refrigerant Flow System

3 TO 32 HP
27.3 TO 307.1kBtu/h



2022 Latin America Catalogue

**XCT8 Series Variable Refrigerant Flow System
Nice Solution of HVAC Application**

The Carrier's XCT8 VRF System is adapted with the concept of healthy building with the high efficiency and flexible combination which can meet different requirements of commercial HVAC application. XCT8 VRF system adopts environment-friendly refrigerant R410A, full inverter system including the compressor and DC motor, and the refrigerant cooling technology to make the system more stable and achieves better performance.

HIGH EFFICIENCY

The Carrier's XCT8 VRF system is designed with multiple high efficiency technologies to reduce the energy consumption.

- Inverter compressor with more precise PMV control which can adjust the frequency at 1Hz to achieve operating on demand, at most optimal load.
- Adapted the brushless DC motor with stepless control based on the system pressure and temperature and low-pressure air management system to reduce the wastage of energy consumption.
- Golden fin and inner grooved copper pipe design of heat exchanger enables better exchange efficiency.
- EVI technology and two-stage sub-cool to enhance the performance*

HIGH RELIABILITY

The Carrier's XCT8 VRF system equips numbers of devices and advanced technologies to ensure the system stability.

- Refrigerant liquid cooling technology can rapidly cool down inverter PCB, provides IPM stable operating conditions, even at high ambient temperature and high frequency operation of compressor.
- The rotation operation of outdoor module balances the life span of each module, which also extend the life span of whole system*
- Multi temperature sensors and pressure sensors detect the system operating status to ensure the system operates in best state.
- The intelligent defrost and oil return program protecting the compressor and contributing to the system performance as well.

BENEFIT FOR INSTALLATION AND SERVICE

Flexible design and ease of installation are the key point of XCT 8, to relief the installer and maintenance team from hassle.

- One button trial operation automatically detects system connection, saves trial operation and commissioning time.
- The wireless communication between the indoor unit and the outdoor unit saves the wiring installation work and cost.
- The refrigerant auto charge function reduces the commissioning time.
- There is a "Black box" function to record the history error code of outdoor PCB for for easy maintenance. And it has the service window on the panel to check parameters, no need to remove the plate panel!
- The intelligent diagnose and troubleshooting service software helps to reduce the downtime of problem unit.

* Only for the 30P-45P HP series

* Only for the two-stage series

* Only for the two-stage series

TOP-DISCHARGED SERIES



DC INVERTER COMPRESSOR

The Carrier AC10 VRF system uses the top-discharged DC inverter compressor and VRF air-side DC motor fan technology to save on electricity and reduce energy consumption. The DC inverter compressor and VRF air-side DC motor fan technology are used for the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

DC BRUSHLESS FAN MOTORIZED AXIAL FAN BLADE

The Carrier AC10 VRF system is equipped with the high-efficiency DC brushless fan motor which is controlled according to the outdoor ambient temperature and indoor load requirements. The DC brushless fan motor is controlled by the DC inverter fan speed to improve the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

ELECTRONIC CONTROL BOX

For the installation, the Carrier AC10 inverter VRF system's compact design and color separated pipes will be installed in the installation space. The Carrier AC10 VRF system is equipped with the high-efficiency DC brushless fan motor which is controlled according to the outdoor ambient temperature and indoor load requirements. The DC brushless fan motor is controlled by the DC inverter fan speed to improve the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

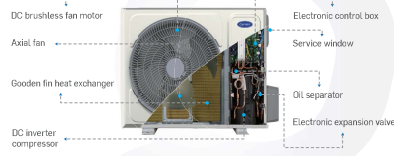
GOLDEN FIN HEAT EXCHANGER

The Carrier AC10 VRF system uses the top-discharged DC inverter compressor and VRF air-side DC motor fan technology to save on electricity and reduce energy consumption. The DC inverter compressor and VRF air-side DC motor fan technology are used for the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

OIL SEPARATOR AND GAS-LIQUID SEPARATOR

The Carrier AC10 VRF system is equipped with the high-efficiency DC brushless fan motor which is controlled according to the outdoor ambient temperature and indoor load requirements. The DC brushless fan motor is controlled by the DC inverter fan speed to improve the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

SIDE-DISCHARGED SERIES



DC INVERTER COMPRESSOR

The Carrier AC10 VRF system is equipped with the high-efficiency DC brushless fan motor which is controlled according to the outdoor ambient temperature and indoor load requirements. The DC brushless fan motor is controlled by the DC inverter fan speed to improve the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

DC BRUSHLESS FAN MOTORIZED AXIAL FAN BLADE

The Carrier AC10 VRF system is equipped with the high-efficiency DC brushless fan motor which is controlled according to the outdoor ambient temperature and indoor load requirements. The DC brushless fan motor is controlled by the DC inverter fan speed to improve the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

ELECTRONIC CONTROL BOX

For the installation, the Carrier AC10 inverter VRF system's compact design and color separated pipes will be installed in the installation space. The Carrier AC10 VRF system is equipped with the high-efficiency DC brushless fan motor which is controlled according to the outdoor ambient temperature and indoor load requirements. The DC brushless fan motor is controlled by the DC inverter fan speed to improve the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

GOLDEN FIN HEAT EXCHANGER

The Carrier AC10 VRF system uses the top-discharged DC inverter compressor and VRF air-side DC motor fan technology to save on electricity and reduce energy consumption. The DC inverter compressor and VRF air-side DC motor fan technology are used for the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

OIL SEPARATOR AND GAS-LIQUID SEPARATOR

The Carrier AC10 VRF system is equipped with the high-efficiency DC brushless fan motor which is controlled according to the outdoor ambient temperature and indoor load requirements. The DC brushless fan motor is controlled by the DC inverter fan speed to improve the heat pump units to improve the heating performance and reduce the working current of the DC inverter fan, which means that the inverter fan speed is reduced when the outdoor ambient temperature is rising.

TOP-DISCHARGED HEAT PUMP SERIES

- 380-415V/3PH/50&60Hz
- 8 to 32 HP (23.2 to 80 kW)
- R410A refrigerant
- Free combination with 3 models, up to 96 HP (270 kW)
- Max. 100 IDUs can be connected under one system

TOP-DISCHARGED COOLING ONLY SERIES

- 208-230V/3PH/60Hz
- 8 to 20 HP (25.2 to 58 kW)
- R410A refrigerant
- Free combination with 4 models, up to 80HP (243kW)
- Max. 64 IDUs can be connected under one system

SIDE-DISCHARGED HEAT PUMP SERIES

- 208-230V/1 PH/50&60 Hz for single fan
- 380-415V/3 PH/50&60 Hz for dual fan
- 3 to 12 HP (8 to 33.9kW)
- R410A refrigerant
- Max. 18 IDUs can be connected under one system

INDOOR UNIT H-WALL

- 208-230V/1PH/50&60 Hz
- 7.5 to 24.2kBTuh (2.2 to 7.1kW)
- DC motor
- Compact and pearl white panel, which is suitable for more diversified decoration styles

INDOOR UNIT COMPACT CASSETTE

- 208-230V/1PH/50&60Hz
- 7.5 to 34.5kBTuh (2.2 to 10kW)
- DC motor
- Compact design/suit for small room application

INDOOR UNIT CASSETTE

- 208-230V/1PH/50&60Hz
- 8.2 to 34.5kBTuh (2.8 to 10kW)
- DC motor
- Compact size, suitable for office and hall application

INDOOR UNIT FLOOR-CEILING

- 208-230V/1PH/50&60Hz
- 12.3 to 34.5kBTuh (3.6 to 10kW)
- AC motor
- Flexible installation for floor-standing or ceiling-mounted

INDOOR UNIT VERTICAL DUCT

- 208-230V/1PH/60Hz
- 24.2 to 34.5kBTuh (7.1 to 10kW)
- AC motor
- 50Pa as standard ESP
- Thermal insulated cabinet to reduce heat loss
- Vertical installation meets required commercial market

INDOOR UNIT LOW ESP DUCT

- 208-230V/1PH/50&60 Hz
- 7.5 to 24.2kBTuh (2.2 to 7.1kW)
- DC motor
- 30Pa as standard ESP
- Low noise, and concealed installation.

INDOOR UNIT MEDIUM ESP DUCT

- 208-230V/1PH/50&60Hz
- 24.2 to 31.2kBTuh (7.1 to 15kW)
- DC motor
- 50Pa as standard ESP

INDOOR UNIT HIGH ESP DUCT

- 208-230 V/1 PH/50&60 Hz for capacity up to 28kW
- 208-230 V/3 PH/60 Hz (390-415 V/3 PH/50 Hz) for capacity above 28kW
- 24.2 to 191kBTuh (7.1 to 56kW)
- AC motor/DC motor for 20-28kW
- Max. ESP 250 Pa (35-56kW)
- High static pressure enables flexible installation of long air duct and more diffusers.

INDOOR UNIT FRESH AIR PROCESSOR

- 208-230 V/1 PH/50&60 Hz for capacity up to 28kW
- 208-230 V/3 PH/60 Hz for capacity above 28kW
- 47.8 to 191kBTuh (14 to 56kW)
- AC motor
- Introducing of fresh air helps to create a healthier indoor environment.