



Turn to the experts

AIR HANDLING UNIT DX KIT





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VRF AHU SOLUTION

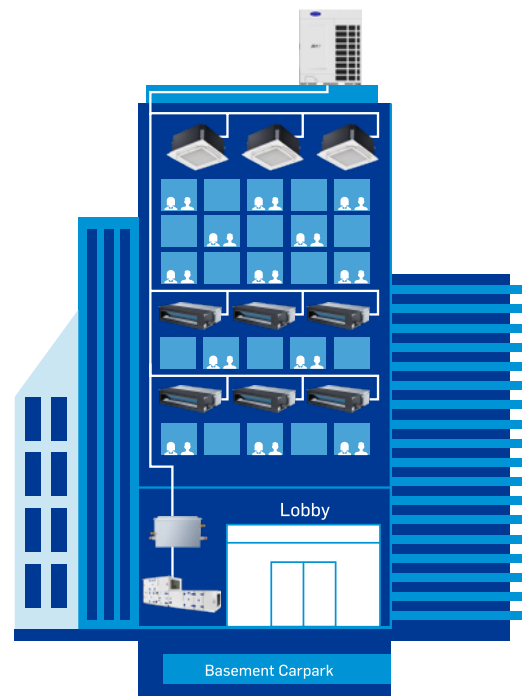
Carrier offers a vast range of kits to connect XCT7 systems to 3rd party DX Air Handling Units. This enables VRF to explore more possibilities for applications in various architectures.

VRF SYSTEM BENEFITS

- High Efficiency
 - Seasonal efficiency (high SEER and SCOP)
 - Effective heating/cooling mode switch
- Easy Installation
 - Easy to install with reduced pipe size: minimal space requirements
- Incredible Flexibility
 - Ideal for renovation projects

VRF SYSTEM WITH AHU DX KIT BENEFITS

- Wide range from 3HP to 26HP
- Easy maintenance and service
- Covers large & high ceiling applications
- Flexible control
- Touch-screen controller for centralized control
- Can be combined with other types of VRF indoor units

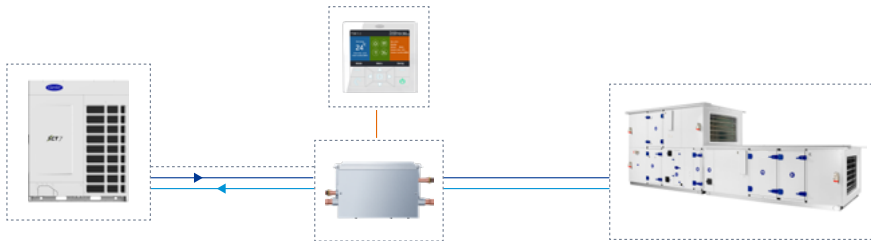


VRF AHU System

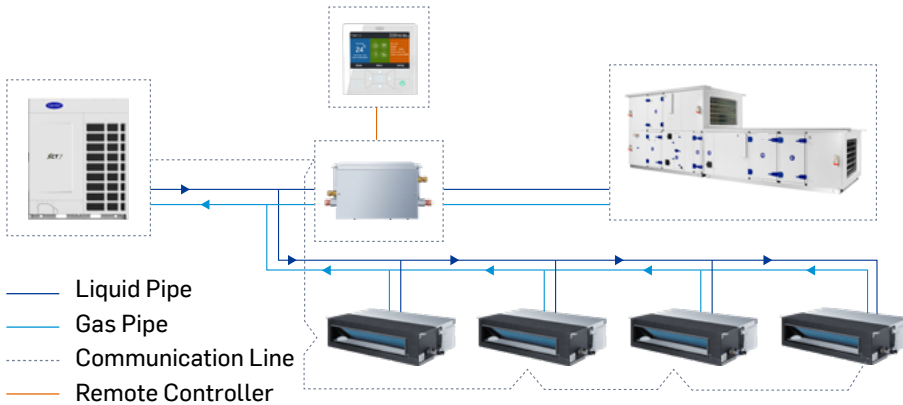
VRF AHU DX KITS CONNECTION

TA TYPE DX KIT

1 TO 1 CONNECTION



COMBINE WITH VRF INDOOR UNITS



VRF IDU controls omitted

Operating Conditions

Cooling mode mixed air temperature (before coil),Min/Max.	Cooling : 14/43°C DB
Heating mode mixed air temperature (before coil),Min/Max.	Heating : 5/28°C DB

Specifications

Model	Unit	40VA010T7FAQEE	40VA020T7FAQEE
Connected AHU Capacity	—	14 ≤ x ≤ 28 kW (5-10 HP)	28 < x ≤ 56kW (10-20 HP)
Power Supply (Ph/V/Hz)	—	1/220~240/50/60	1/220~240/50/60
Dimensions(L x H x W)	mm	350 x 226 x 155	433 x 296 x 193
Weight	kg	6	8
Liquid Pipe	mm inch	9.52 (main) / 12.7 0.375 (main) / 0.5	12.7 (main) / 15.88 0.5 (main) / 0.625
Gas Pipe	mm inch	25.4 (main) / 22.2 / 19.05 1 (main) / 0.875 / 0.75	28.58 (main) / 25.4 / 22.22 0.125 (main) / 1 / 0.875
Airflow Min./Max.	m ³ /h	1800 / 8250	2600 / 16500
Internal Volume Min./Max.	L	3.68 / 8.80	4.53 / 16.13
Kit Composition			

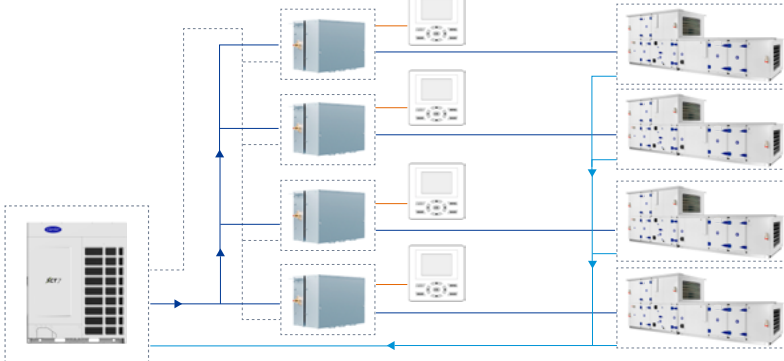
VRF AHU DX KITS CONNECTION

DDC TYPE DX KIT

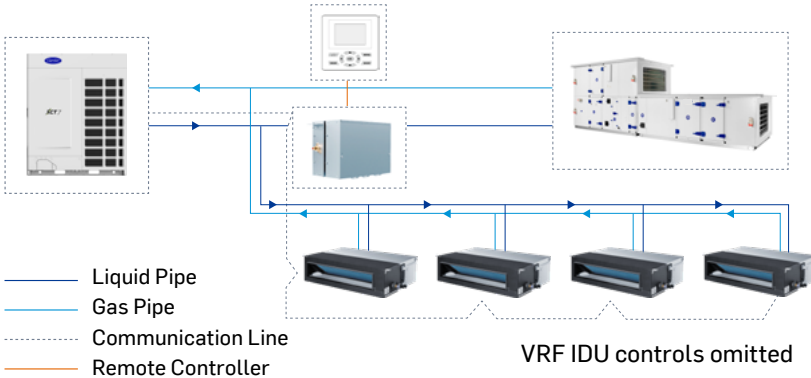
1 TO 1 CONNECTION



1 TO MULTIPLE AHU



COMBINE WITH VRF INDOOR UNITS



- Liquid Pipe
- Gas Pipe
- - - Communication Line
- Remote Controller




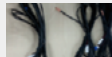

VRF IDU controls omitted

Operating Conditions

Cooling mode mixed air temperature (before coil),Min/Max.	14/43°C DB
Heating mode mixed air temperature (before coil),Min/Max.	5/28°C DB

Specifications

Model	Unit	40VA003D7FAQEE	40VA005D7FAQEE	40VA010D7FAQEE	40VA020D7FAQEE	40VA026D7FAQEE
Connected AHU Capacity	—	3.5 ≤ x ≤ 7 kW (1-3HP)	7 < x ≤ 14 kW (3-5HP)	14 ≤ x ≤ 28 kW (5-10HP)	28 < x ≤ 56 kW (10-20HP)	56 < x ≤ 73 kW (20-26HP)
Power Supply (Ph/V/Hz)	—	1/220~230/50/60				
Dimensions (L x H x W)	mm	420 x 260 x 165				
Weight	kg	5.5			6.5	
Liquid Pipe	mm inch	9.52 (main) / 6.35 0.375 (main) / 0.25			12.7 (main) / 15.88 0.5 (main) / 0.625	
Airflow Min./Max.	m ³ /h	520 / 1950	720 / 3750	1200 / 8250	2600 / 16500	4800 / 21000
Internal Volume Min./Max.	L	1.01 / 2.16	1.51 / 4.32	2.28 / 8.80	4.53 / 16.13	8.18 / 20.16

Kit Composition	 40VA003/005 010/020/026D7FAQEE	+	 EXV part	+	 Control Part	+	 Sensor and wire	+	 Controller
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ODU COMPATIBILITY

TA TYPE



Compatibility

- Top Discharge Heat Pump XCT7 (up to 60HP)
- Side Discharge Heat Pump XCT7 (8 to 12HP)

ODU Compatible	AHU DX KIT	AHU Coil Capacity (kW)
8-10HP	40VA010T7FAQEE	14kW<x≤28kW
10-20HP	40VA020T7FAQEE	28kW<x≤56kW
20-30HP	40VA020T7FAQEE+40VA010T7FAQEE	56kW<x≤84kW
30-40HP	40VA020T7FAQEE+40VA020T7FAQEE	84kW<x≤112kW
40-50HP	40VA020T7FAQEE+40VA020T7FAQEE+40VA010T7FAQEE	112kW<x≤140kW
50-60HP	40VA020T7FAQEE+40VA020T7FAQEE+40VA020T7FAQEE	140kW<x≤168kW

DDC TYPE

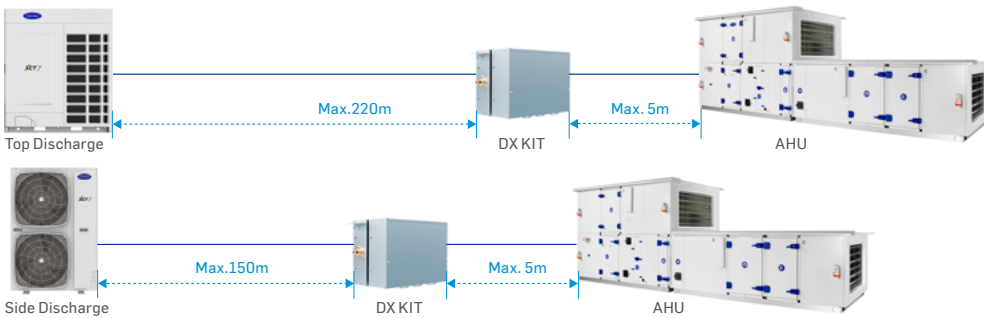


Compatibility

- Top Discharge Heat Pump XCT7 (up to 104HP)
- Side Discharge Heat Pump XCT7 (2 Fans: 4 to 12HP)

ODU Compatible	AHU DX KIT	AHU Coil Capacity (kW)
1-3HP	40VA003D7FAQEE	3≤x≤7kW
3-5HP	40VA005D7FAQEE	7<x≤14kW
5-10HP	40VA010D7FAQEE	14<x≤28kW
10-20HP	40VA020D7FAQEE	28<x≤56kW
20-26HP	40VA026D7FAQEE	56<x≤73kW
28-40HP	2x40VA020D7FAQEE	73<x≤112kW
42-52HP	2x40VA026D7FAQEE	112<x≤146kW
52-60HP	3x40VA020D7FAQEE	146<x≤168kW
62-78HP	3x40VA026D7FAQEE	168<x≤219kW
80HP	4x40VA020D7FAQEE	219<x≤224kW
82-104HP	4x40VA026D7FAQEE	224<x≤292kW

PIPING RULES



Note

1. Non-mixing connection: AHU connection rate 90- 110%
2. When mixing with VRF IDUs, total indoor unit(including AHU) connection rate should be 50 ~110%, which IDU share is not less than 50% & AHU ≤ 30% ODU capacity
3. Height difference between outdoor unit and AHU DX kit: Top Discharge up to 110m, Side Discharge up to 50m

For more information, or different configurations, please refer to sales representative



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COMPATIBLE WITH ALL THIRD PARTIES AND THE FOLLOWING CARRIER AHUS

COMPACT & HIGH EFFICIENCY DUAL-FLOW AIR HANDLING UNIT WITH INTEGRATED DX COIL

39HXA

Airflow : 350 - 8500 m³/h

The 39HX dual-flow air handling unit is a PLUG & PLAY ventilation unit equipped with a highly efficient heat recovery unit with plug fans and high performance EC motors, designed to meet all the requirements of recent ecodesign regulations. These units are designed for use in the following applications: administrative buildings, offices, education facilities, libraries, community centers, cafes, hotels, restaurants, shopping centers, nursing homes, healthcare facilities and collective housing.



Features & Benefits

- Plug & play unit (built-in control)
- Class A+ across entire range
- Classic/Vertical/ceiling-mounted dual-flow units
- High-efficiency heat recovery unit
- High performance plug fan
- DX coil :
 - Copper tubes, aluminium fins
 - For reversible heating/cooling operation
 - Internal space optimised for VRF units
 - Stainless steel condensate drain pan

Regulation adapted to the DX kit

Input Data

- On/Off management
- Heating / Cooling mode management
- Proportional capacity control (0-10V)

Output data

- Error feedback signal
- Defrost mode signal

MODULAR AIR HANDLING UNIT WITH INTEGRATED DX COIL

39CP

Airflow: 1000-30000 m³/h

The new range of 39CP air handling units is the latest generation of AHUs developed to meet the EN 1886 and EN13053 standards, integrating the most innovative components (filters, recovery units, fans, electric motors, etc.). Designed with a green building approach, the 39CP unit can play a part in achieving green building labels.



Features & Benefits

- AHU for all applications
- Designed to conform to EN 13053 and EN 1886 standards
- For all service sector, industry and healthcare applications' installation and commissioning are fast and simple
- Possibility of hygienic certification according to VDI6022-1: 2018 or DIN1946
- DX coil:
 - Construction with copper tubes and aluminium fins
 - Supply tubes made from copper with smooth ends

Contact us

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