



AHU DX KITS CONNECTION

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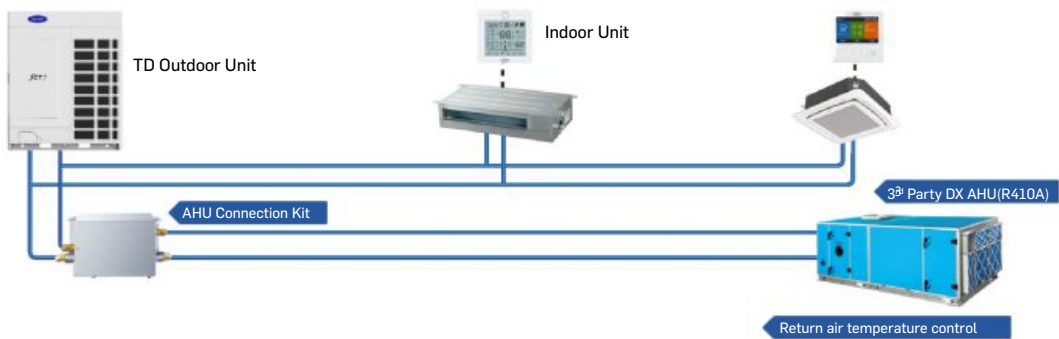


Air Handling Unit DX Coil kit (TA Control)

AHU Kit

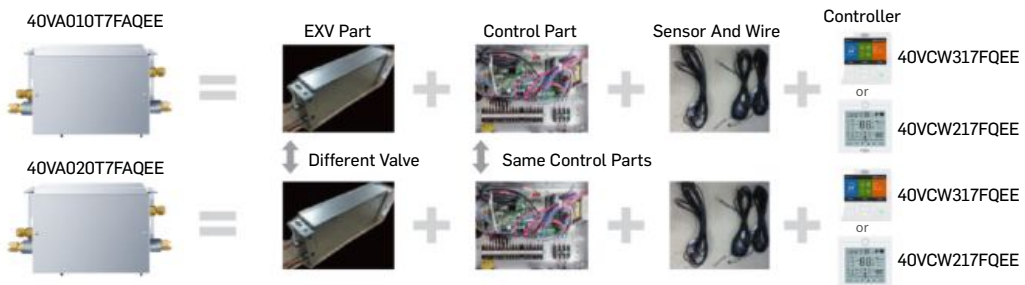
Easy Installation

- Carrier offers a range of connection kits to connect VRF outdoor units to 3rd party DX AHU (R410A)
- 2 connections are possible:
 - Mixed with VRF indoor units, AHU capacity should less than 30% of total capacity
 - AHU alone
- In both cases (50% < indoor Max connection ratio < 100%)
- Compatible to XCT7 Top Discharge up to 60HP (3 kits) & XCT7 Side Discharge (8/10/12HP)
- Compatible with all XCT7 VRF control solutions

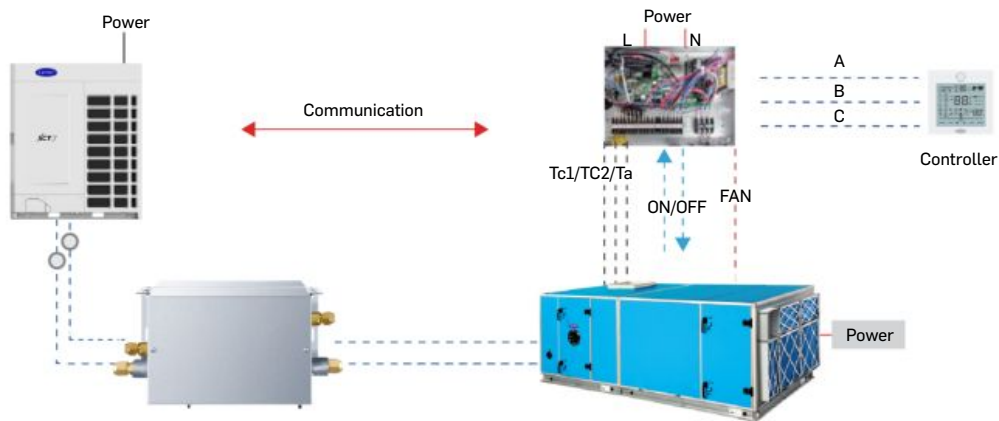


AHU Kit Configuration

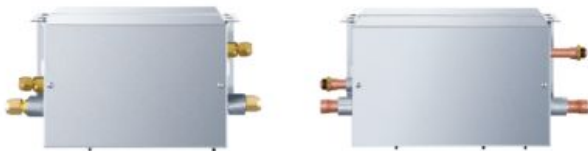
Carrier's AHU connection kit consists the following 4 parts, where controller is optional:



AHU Connection Kit Control



Specifications (TA control)



Model	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 (mm)(L x H x W)	(350 x 226 x 155)	(433 x 296 x 193)
Shipping Dimensions (mm)(L x H x W)	(606 x 295 x 209)	(667 x 365 x 249)
Material	Galvanized steel	Galvanized steel
Weight (kg)	6	8
Shipping Weight (kg)	10	13
Liquid Pipe (mm)	9.52 (Main) / 12.7	12.7 (Main) / 15.88
Gas Pipe (mm)	25.4 (Main) / 22.2 / 19.05	28.58 (Main) / 25.4 / 22.22
Pipe Connection Method	Flare connection and welding	Flare connection and welding
AHU Kit - AHU Coil Max Single Pipe Length (m)	5	5
AHU Kit - AHU Coil Max Height Difference (m)	5	5



AHU Kit



Air Handling Unit DX Kit (DDC Control)

System Introduction

Carrier offers a range of connection kits to connect XCT7 outdoor units to 3rd party DX AHU, with DDC control configuration

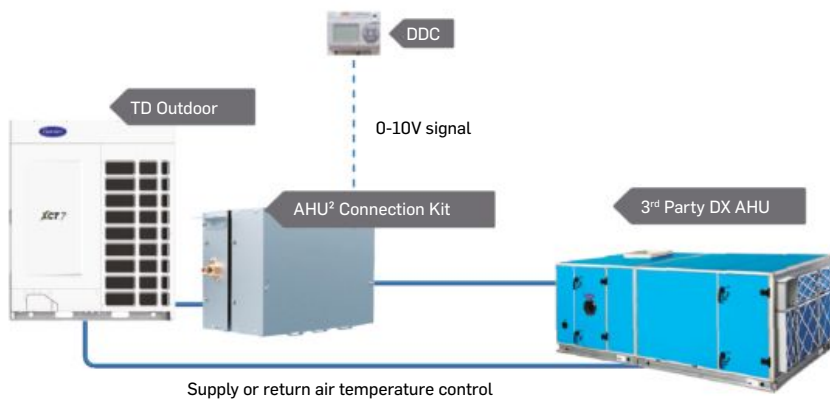
2 connections are possible:

- Mixed with VRF indoor units, AHU capacity should less than 30% of total capacity
- AHU alone

In both cases (50% < indoor Max connection ratio < 100%)

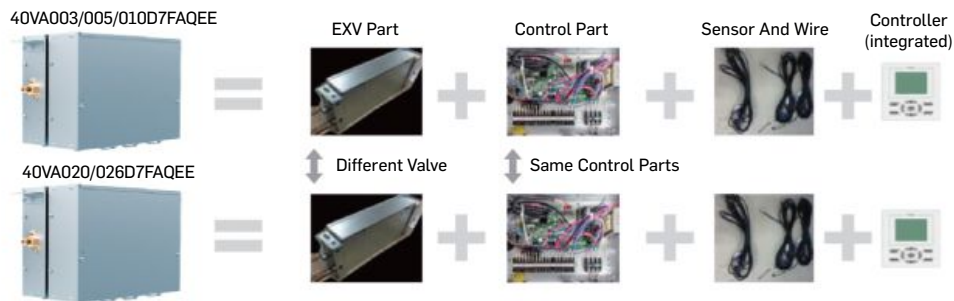
Compatible to XCT7 top discharge up to 104HP (4 kits) & XCT7 side discharge (4 to 12HP)

Compatible with all XCT7 VRF control solutions



AHU Kit Configuration

Carrier 2nd generation AHU kit also contains the following 4 parts:

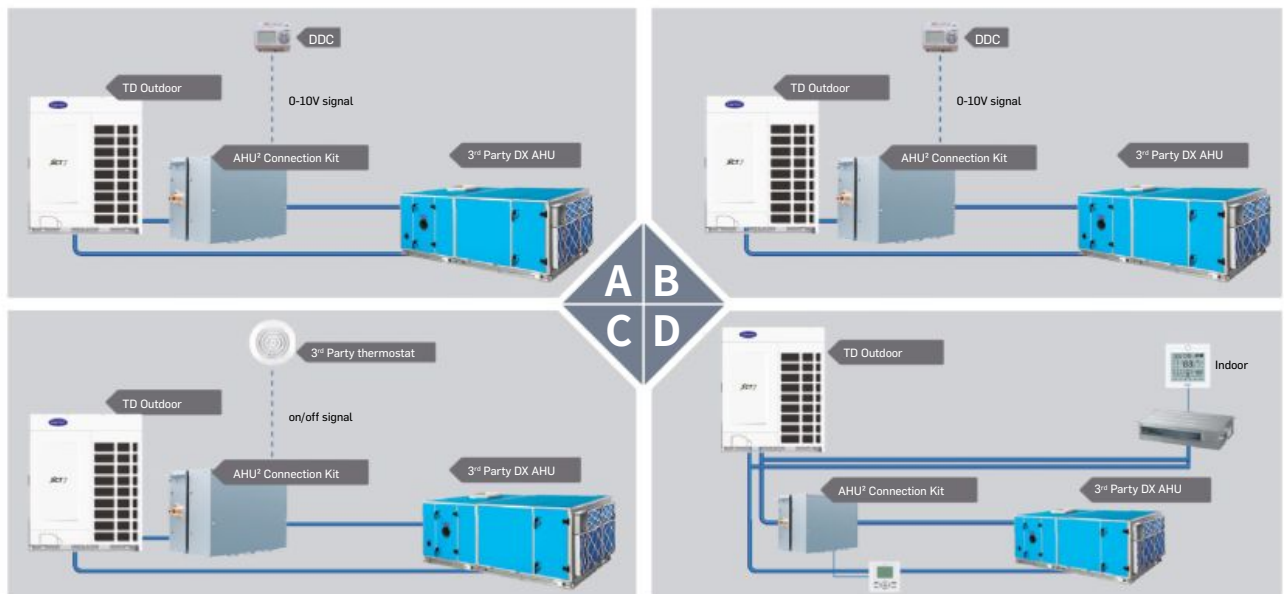


Control Solutions

Four control methods can be used, which can be switched by dip switch based on the site scenario

Control solution for application with the 3rd party AHU with DDC controller

- Supply air temperature or return air temperature controllable
- Control AHU by temperature sensors and 0-10 V signal of DDC controller which is supplied locally
- Similar to B control solution, the difference is unproportional 0-10V algorithm for outdoor units capacity control
- Supply air temperature or return air temperature controllable
- Control AHU by temperature sensors and 0-10V signal of DDC controller which are supplied locally
- Similar to A control solution, more accurate temperature control than A



Control solution for application with 3rd party thermostat instead of DDC

- No additional DDC controller required
- Simple and cheap
- Indirect room temperature control

Control solution for system integrating 3rd part AHU with other VRF

- Control the AHU as a VRF indoor units



AHU Kit



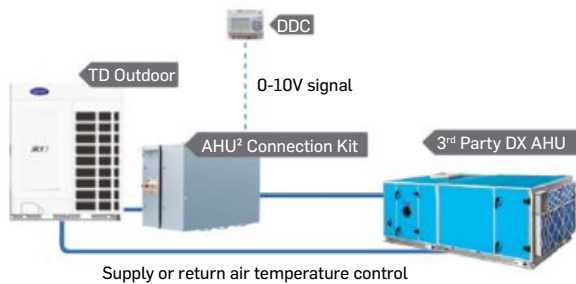
UNIT STRUCTURE

Features

- Extend the AHU connected capacity per kit, ranging from 3.5 kW to 73 kW, which can meet small, medium and large buildings demands
- Add the 0-10V signal control, for DDC configuration
- Supply air temperature or return air temperature controllable
- Remove the gas pipe, more convenient for installation
- Save space through compact design

DDC or TA control

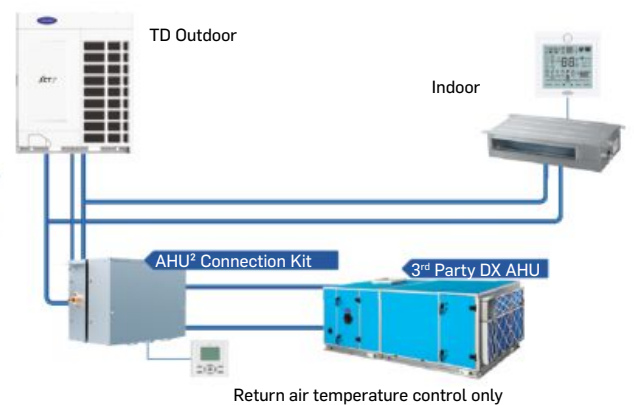
40VA_D7FAQEE



VS

TA control only

40VA_T7FAQEE





Specifications (DDC control)



40VA003D7FAQEE
40VA005D7FAQEE
40VA010D7FAQEE



40VA020D7FAQEE
40VA026D7FAQEE

Model	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	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Dimensions (mm)(L x H x W)	(420 x 260 x 165)	(420 x 260 x 165)	(420 x 260 x 165)	(420 x 260 x 165)	(420 x 260 x 165)
Shipping Dimensions (mm)(L x H x W)	(520 x 340 x 225)	(520 x 340 x 225)	(520 x 340 x 225)	(520 x 340 x 275)	(520 x 340 x 275)
Material	Galvanized Steel	Galvanized Steel	Galvanized Steel	Galvanized Steel	Galvanized Steel
Color	Grey	Grey	Grey	Grey	Grey
Weight (kg)	5.5	5.5	5.5	6.5	6.5
Shipping Weight (kg)	8	8	8	12	12
Liquid Pipe (mm)	9.52 (Main) / 6.35	9.52 (Main) / 6.35	9.52 (Main) / 6.35	12.7 (Main) / 15.88	12.7 (Main) / 15.88
AHU Kit – Indoor Units Max Single Pipe Length (m)	5	5	5	5	5
AHU Kit – Indoor units Max Drop (m)	5	5	5	5	5