

# Air Conditioner Product Introduction

# In-row Version V

---

12.5-30kW (300mm wide)

40-60kW (600 mm wide)

# In-row AC

- ◆ **Cooling range**

12.5kW ~ 60kW

- ◆ **Cooling mode**

Air cooled.

- ◆ **Air supply mode**

Horizontal Airflow Supply (12.5kW-25kW)

Front Airflow Supply (12.5kW-60kW)



In-row AC  
(12.5-25kW)



In-row AC  
(12.5-30kW)



In-row AC  
(40-60kW)

# In-row AC

## Feature

In-row air conditioners are usually placed side-by-side with servers, combined with closed hot and cold aisles for efficient cooling close to the heat source.

Standard RS485 interface, support optional SNMP interface. Optional 7-inch color capacitive touch screen, supporting graphic status and temperature and humidity curve display.

High  
efficiency

Energy  
saving

Intelligent

Reliable

Precise temperature and humidity control capability, full inverter design, intelligent control system, on-demand control of cooling capacity and airflow output

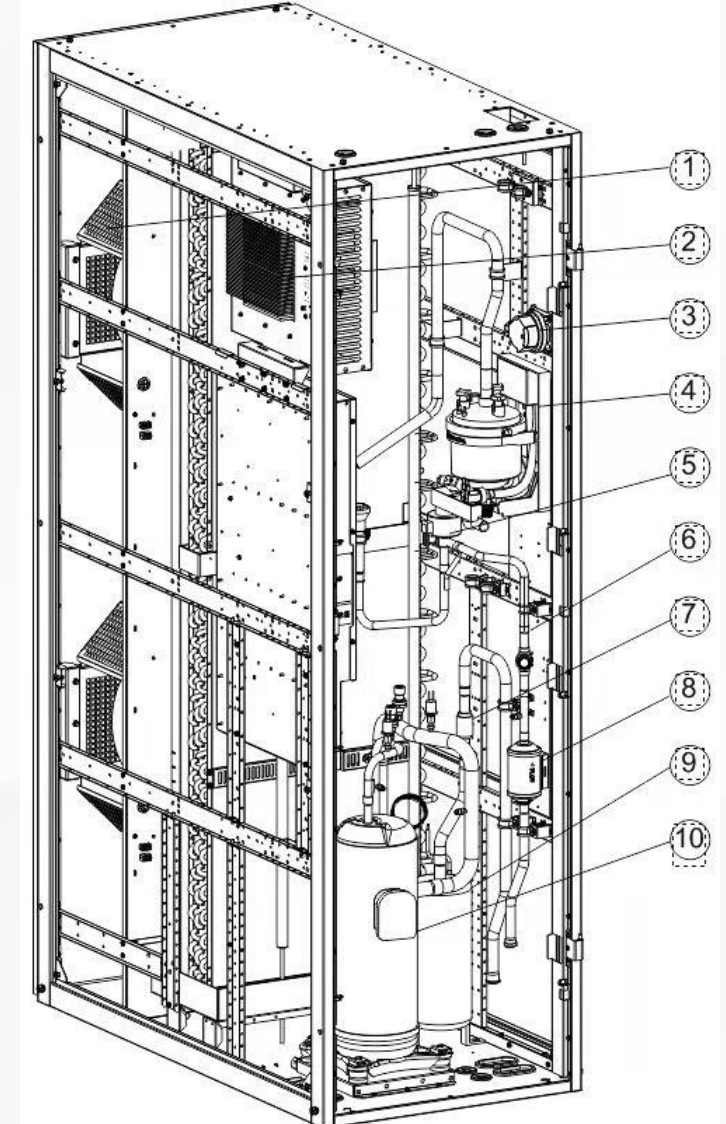
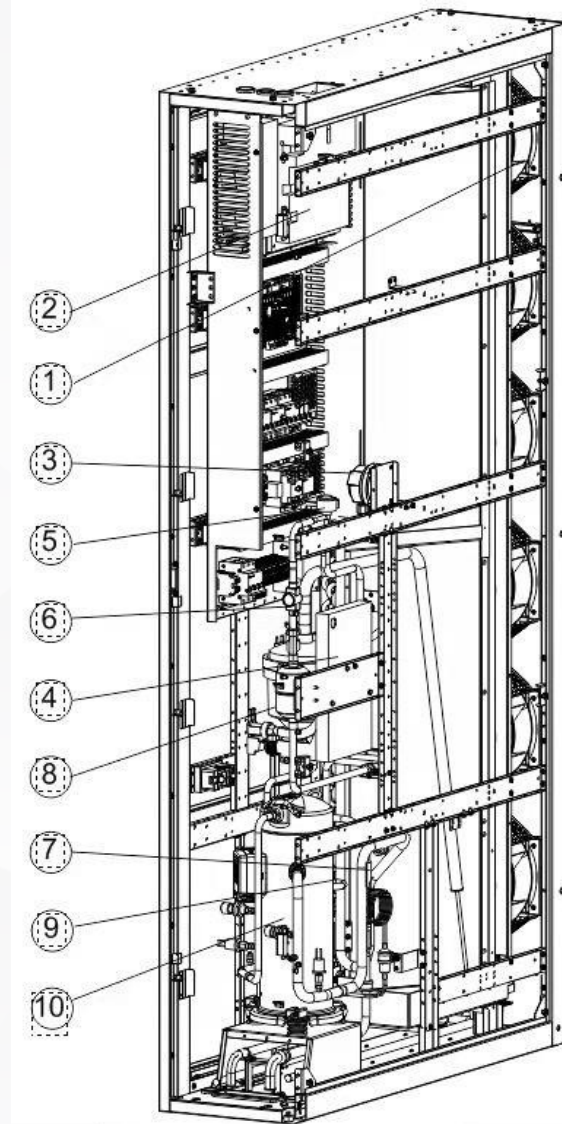
The main components adopt international famous brands

- Copeland, Mitsubishi or GMCC Compressors
- Fans-tech Fan
- Schneider Contactors

# In-row AC

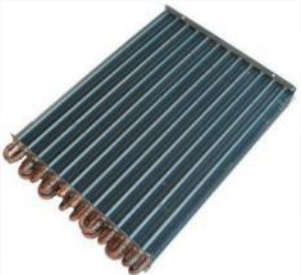
Indoor Unit

Num.	Device Name
1	EC Fan
2	Frequency Inverter
3	Differential pressure switch
4	Electrode Humidifier
5	Electronic expansion valve
6	Sight glass
7	Check valve
8	Filter driers
9	Oil separator
10	Compressor

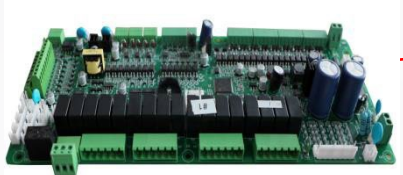


# In-row AC

Indoor Unit



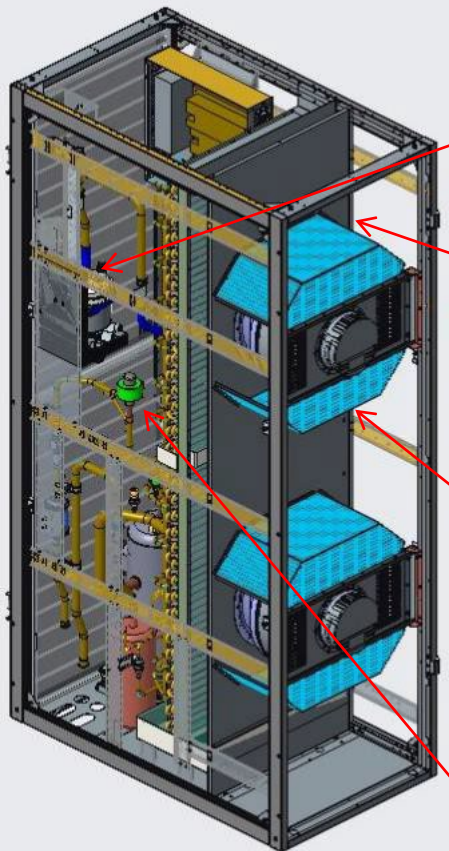
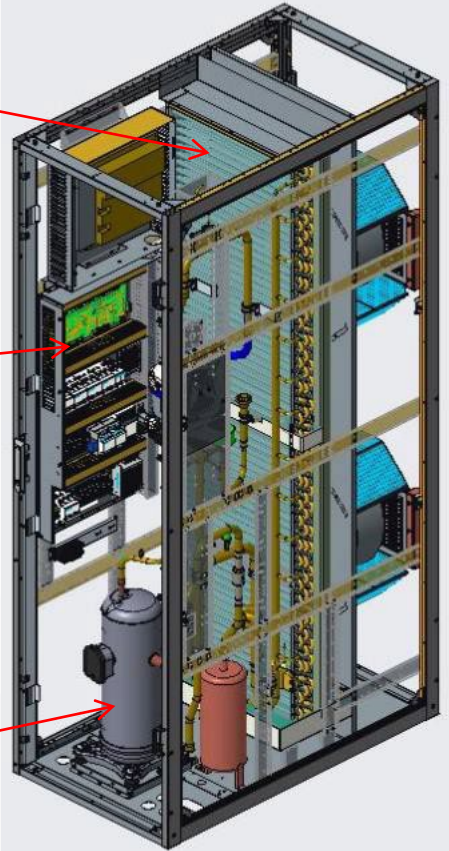
"/" type Evaporator



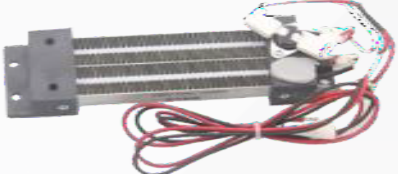
Controller



Inverter compressor



Electrode humidifier



PTC heater

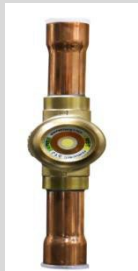
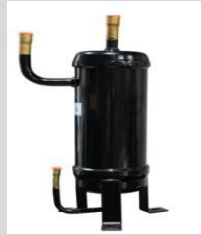


EC fan



Electronic expansion valve

# In-row AC



1

## DC inverter scroll compressor

Can dynamically adjust the cooling output in the range of 20%~100%;

2

## Backward inclined EC fan

High efficiency and low noise, according to the real-time heat load changes to adjust the speed output

3

## Electronic expansion valve

Faster response, more accurate flow rate adjustment

4

## Liquid sight glass

Can visually and effectively check the status of refrigerant in the pipeline of air conditioner system

5

## Check valve

Prevent damage caused by refrigerant migration to the compressor during shutdown

# In-row AC

Outdoor unit



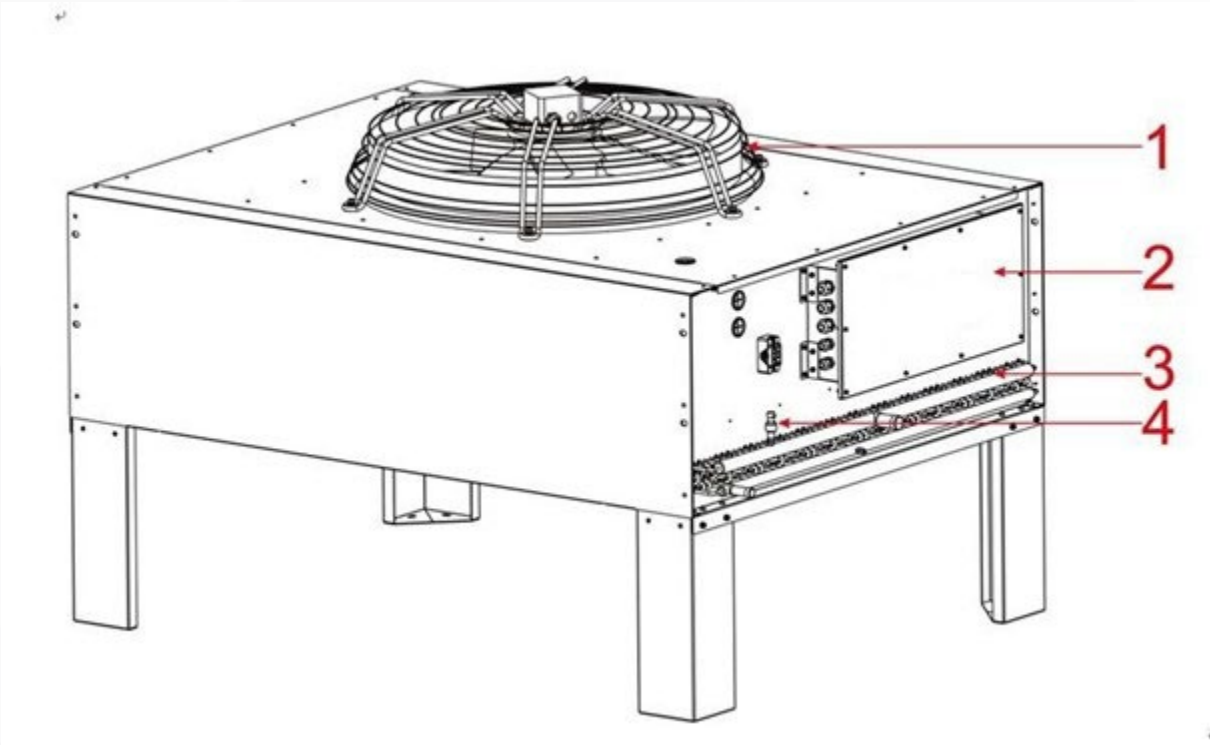
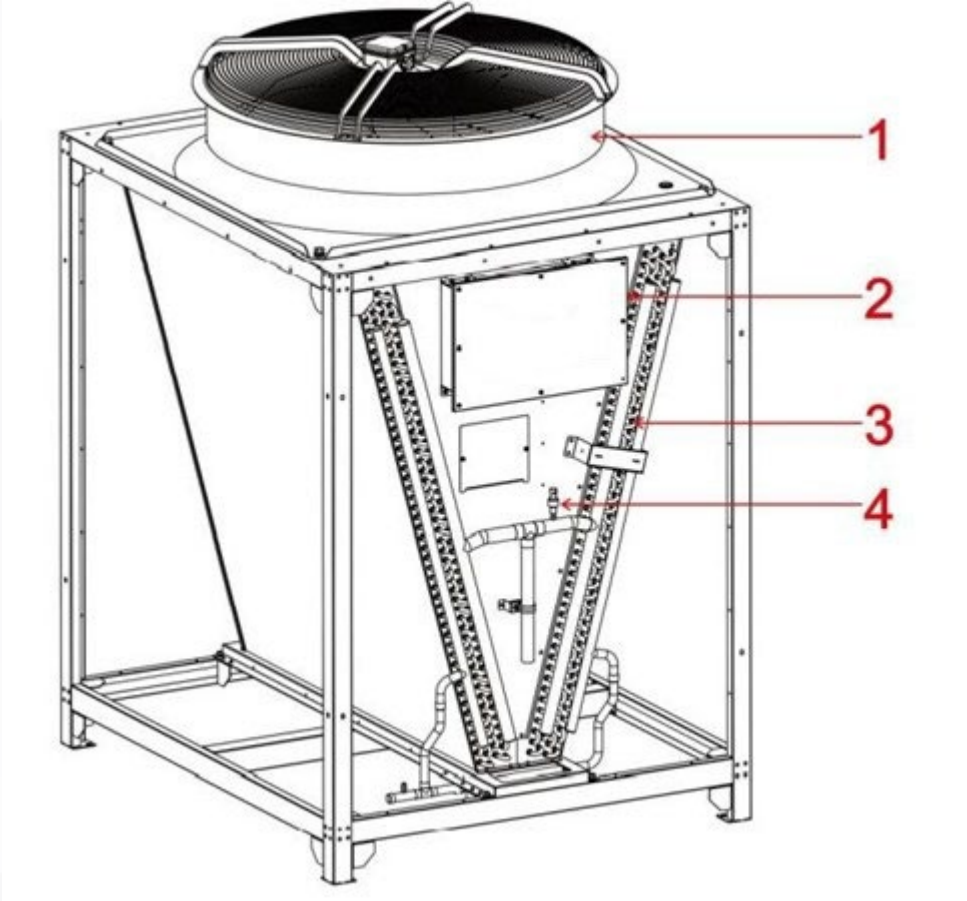
Conventional outdoor unit  
(26-96kW)



Centralized outdoor unit  
(45-180kW)

# In-row AC

Outdoor unit



1

AC axial fan

2

Electric control box

3

Condenser

4

Pressure sensor

# In-row AC



Home page



Equipment Status



AC Equipment control



System Setting

ID	Datetime	Event	Current Alarm
1	2022-01-10 07:50:18	Fan1 Fail	History Alarm
2	2022-01-10 07:50:18	Heater Fail	History Alarm



# In-row AC

## Differentiation

	12.5kW In-row AC	25kW In-row AC	30kW In-row AC	40kW In-row AC	50kW In-row AC	60kW In-row AC
Compressor	Inverter rotor type	Inverter scroll type				
Evaporator	"J" type				"V" type	
Fan	EC fan					
Humidifier	Electrode humidification					
Heater	PTC					
Screen	Optional 7" touch screen		Standard 7" touch screen, Optional 10" touch screen			

# In-row AC

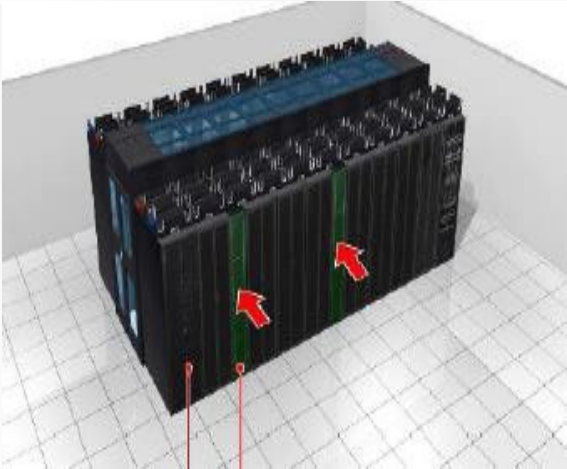
## Specification parameters

	Unit	ACED12ZDXV	ACED25.0ZDXV	ACED30.0ZDXV	ACED40.0ZDXV	ACED50.0ZDXV	ACED60.0ZDXV
Configuration	—	KF/Constant Temp&Humidity					
Total cooling capacity	kW	12.5	25.5	30.8	42.8	51.5	62.7
Sensible cooling capacity	kW	12.5	25.5	30.8	42.8	51.5	62.7
Refrigerant Type	—	R410A					
Compressor Type	—	DC inverter					
Expansion valve Type	—	Electronic expansion valve					
Air Filter	—	G4 filter					
Fan Type	—	EC Fan					
Fan Number	Pcs	4	6	6	2	3	3
Air volume	m3/h	2800	5000	5200	8500	10500	11500
Heating capacity	kW	3	4.5	4.5	6	6.5	6.5
Humidification capacity	kg/h	1.5	3	3	3	3	3
Width	mm	300	300	300	600	600	600
Depth	mm	1100/1200	1100/1200	1100/1200	1100/1200	1100/1200	1100/1200
Height	mm	2000	2000	2000	2000	2000	2000

Test conditions: indoor dry bulb temperature 37°C, relative humidity 24%, outdoor temperature 35°C

# In-row AC

Applications



Container  
Data Center

High density  
data room



Medium and  
small



Modular  
Data Center

