

Air Conditioner Product Introduction

Series Rack AC

◆ Split-type (3.7-12.5kW)

◆ Integrated-type (3.7kW)

Rack AC

Split-type



◆ Cooling range

3.7kW ~ 12.5kW

◆ Cooling mode

Air cooled

◆ Air supply mode

Top Air Supply and Horizontal Airflow Supply



Split-type

Rack AC

Feature



Pluggable design, easy to install, its indoor unit and outdoor unit use stop valve for pipe connection, no need to weld on site;

Its dimension meets the installation requirements of standard server racks in the market, and its internal structure is compact and highly integrated, saving space.

Easy
installation

Flexible
application

High
adaptability

Reliable

Outdoor units support a variety of installation methods to meet the requirements of various complex environments.

The main components adopt international famous brands

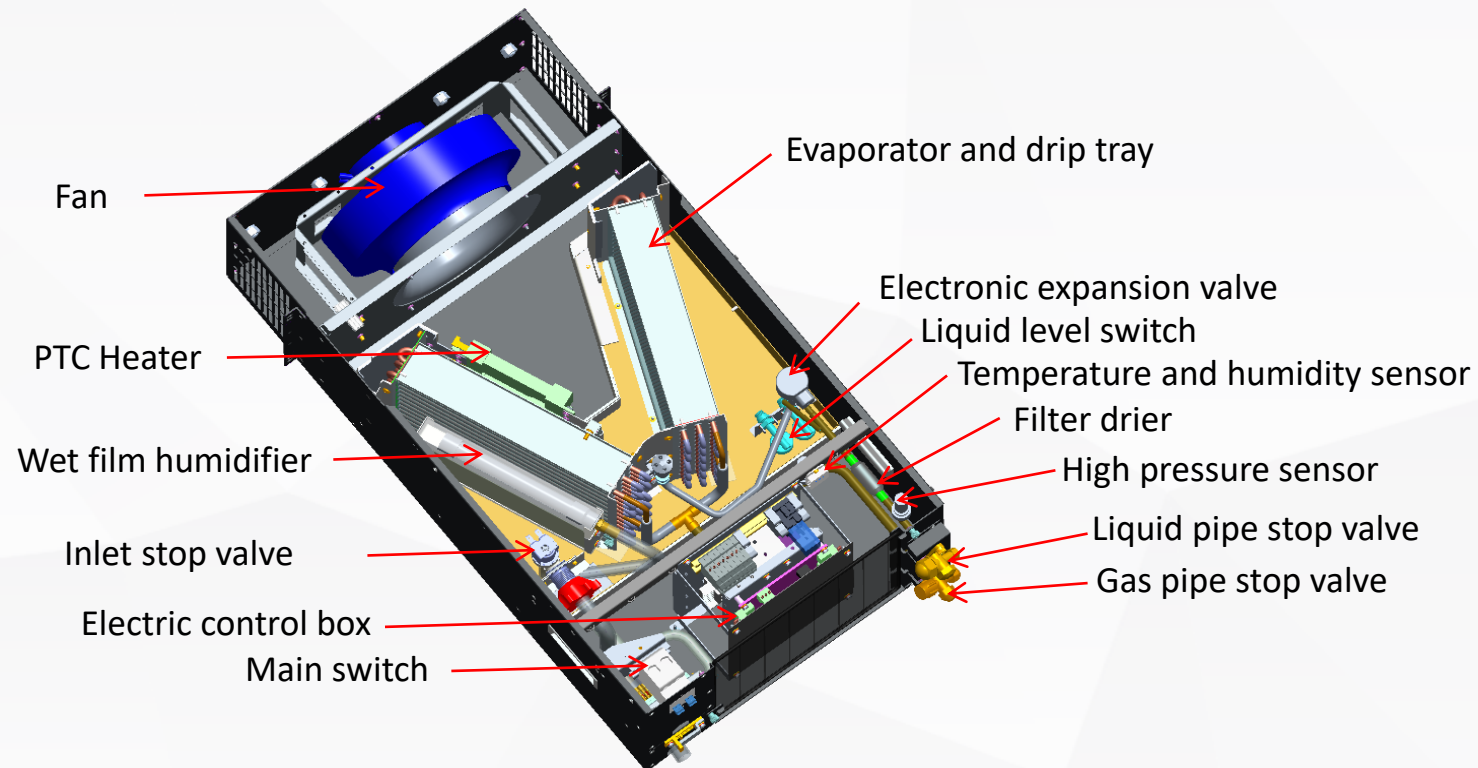
- GMCC Compressor
- Fans-tech Fans
- LS Circuit Breaker

Rack AC

Indoor Unit



Inrack series internal structure diagram of the split type air conditioner indoor unit is shown below. (Compressor at the outdoor unit)

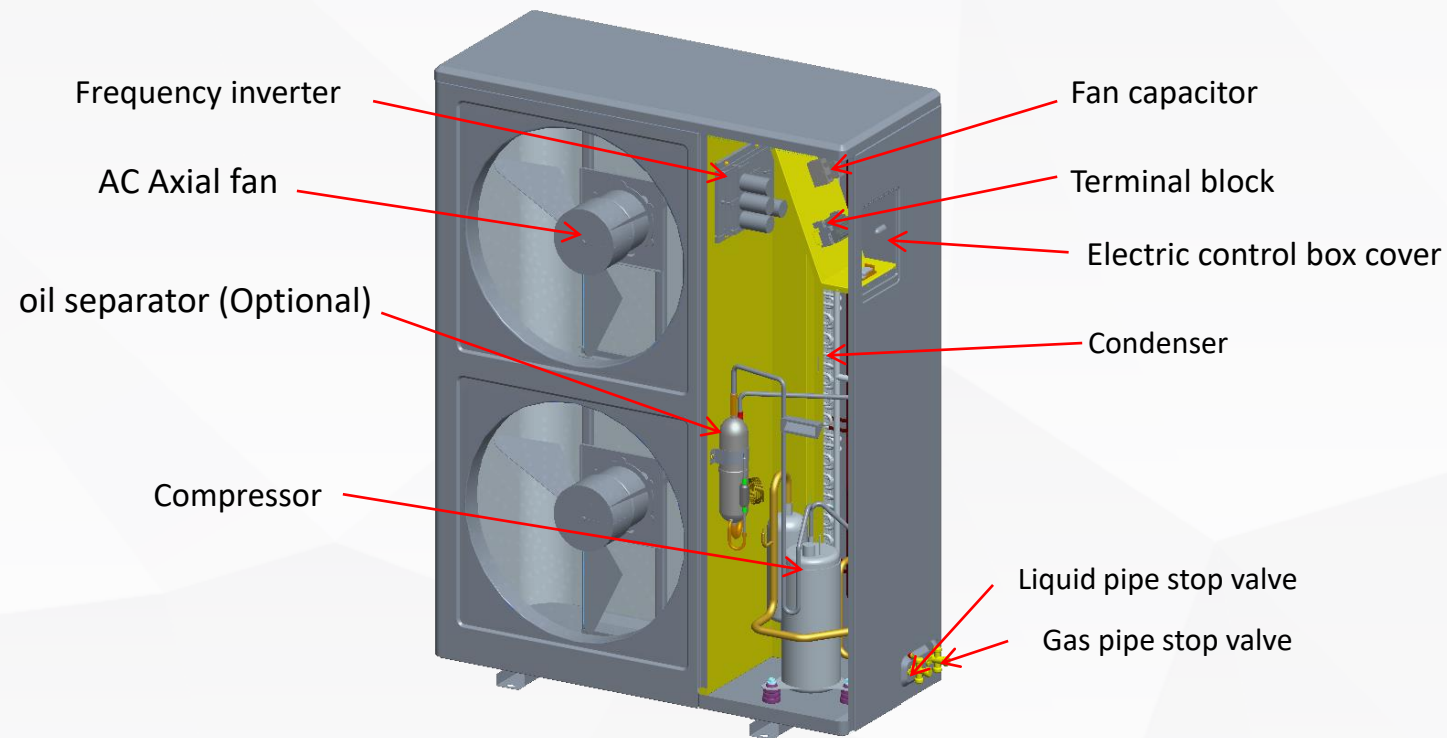


Rack AC

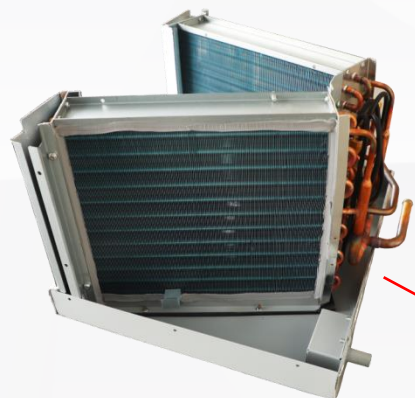
Outdoor Unit



VCP series internal structure diagram of the split type air conditioner outdoor unit is shown below.



Rack AC



"V" type evaporator

Small footprint and large heat exchange area.

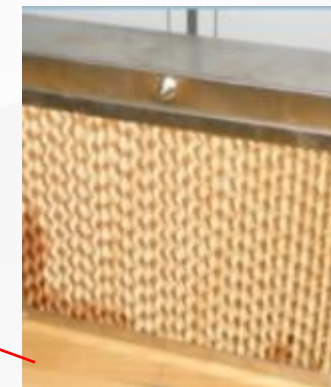


Inverter rotor compressor



EC Centrifugal Fan

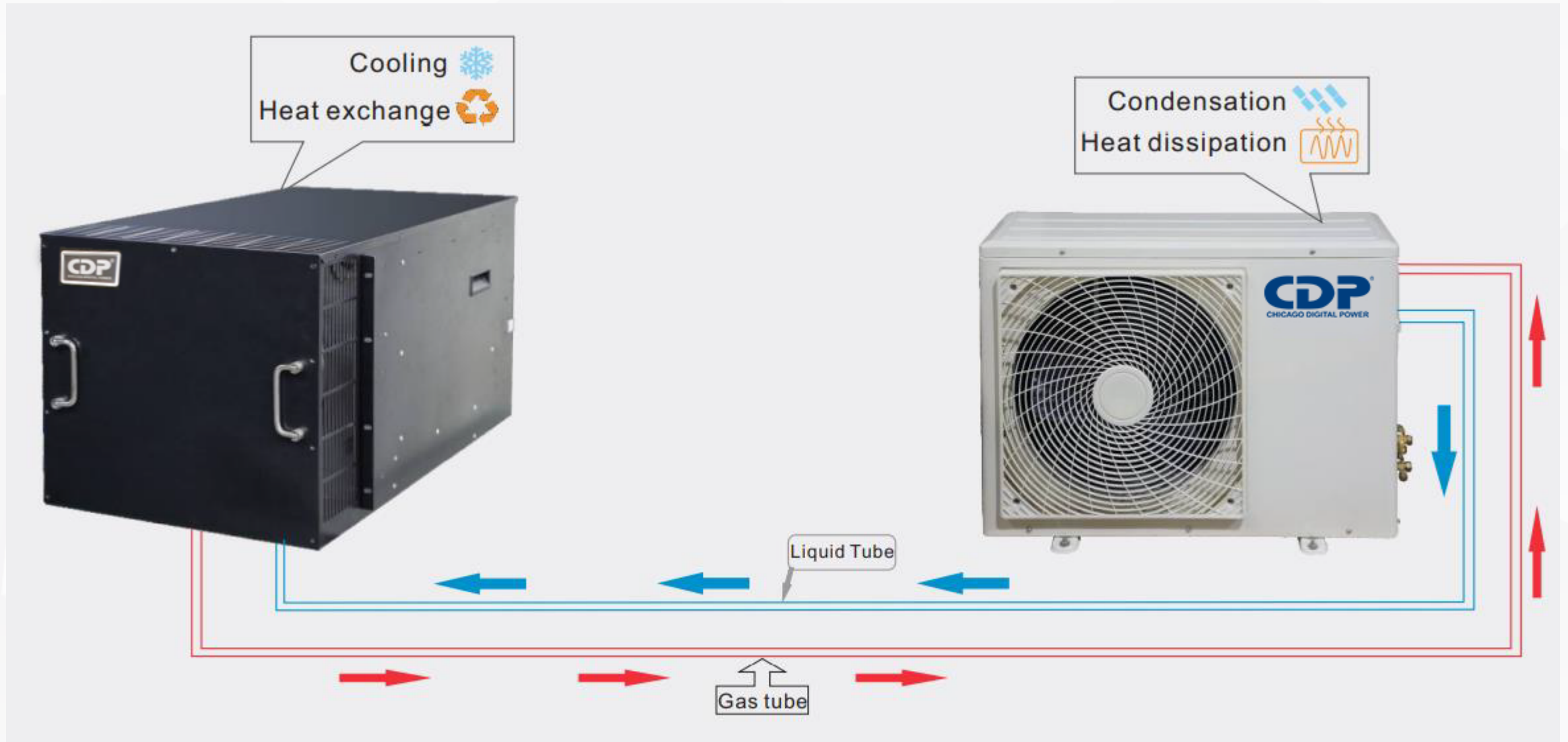
Adopting backward inclined centrifugal EC fan, it saves more than 40% energy than ordinary fans.



Wet film humidifier

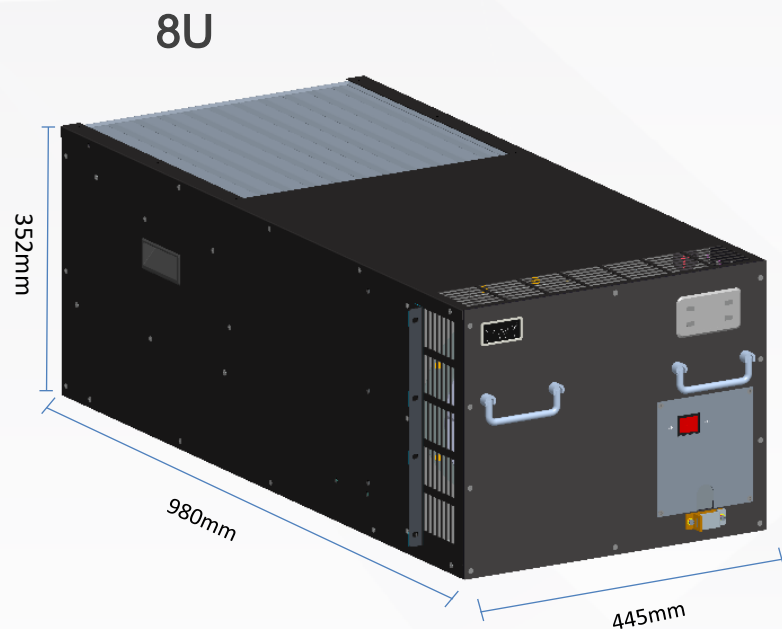
Rack AC

Operation principle



Rack AC

Integrated-type



3.7kW

Integrated-type

Cooling range

3.7kW

Cooling mode

Air cooled

Air supply mode

Top Air Supply

Horizontal Airflow Supply

Rack AC

Integrated-type

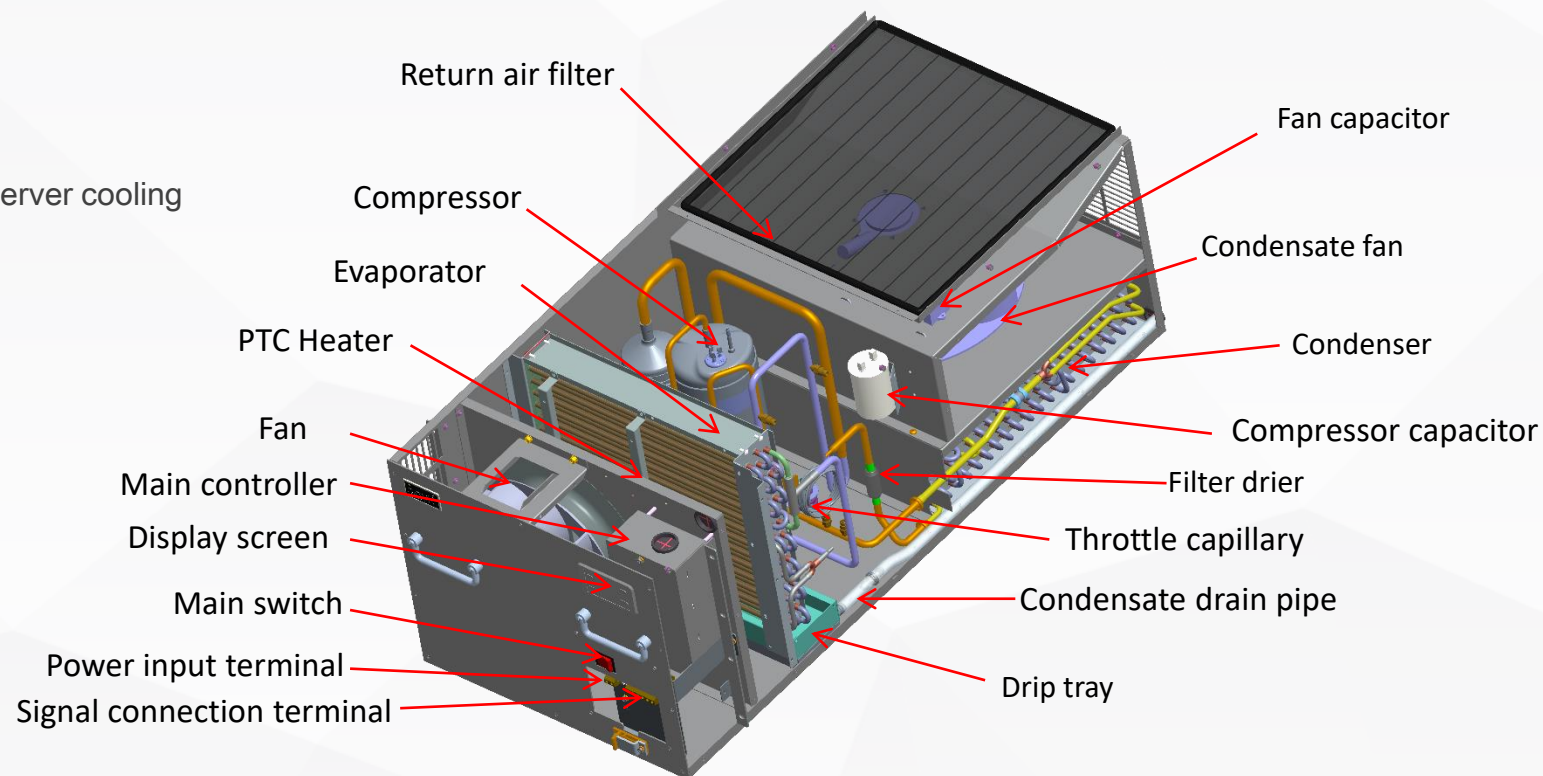


High efficiency and energy saving

Embedded in standard cabinets, it can achieve near-server cooling without outdoor units, decrease data center PUE.

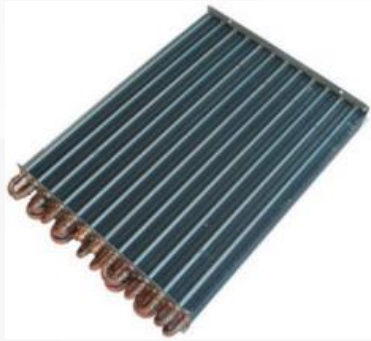
Easy installation

Integrate the indoor unit and outdoor unit into a whole, simplify installation, plug-and-play.



Rack AC

Integrated-type



“/” type Evaporator



Fixed Frequency
Rotor Compressor



PTC heater



AC Fan

Differentiation

	3.7kW Rack AC (Integrated-type)	3.7kW Rack AC (Split-type)	7.5kW Rack AC (Split-type)	12.5kW Rack AC (Split-type)
Compressor	Fixed Frequency Rotor	Inverter rotor	Inverter rotor	Inverter rotor
Evaporator	“/” type	“V” type	“V” type	“V” type
Fan	AC fan	EC fan	EC fan	EC fan
Humidifier	/	Wet Film Humidification	Wet Film Humidification	Wet Film Humidification
Heater	PTC	PTC	PTC	PTC
Screen	LCD screen	/	/	/

Rack AC

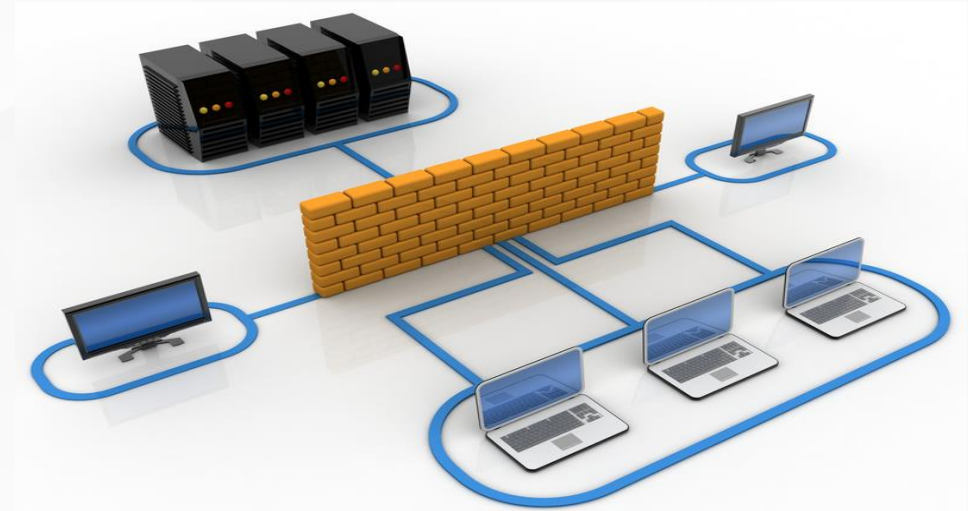
Specification parameters

Model	Unit	3.7 (Rack)	7.5 (Rack)	12.5 (Rack)	3.7 (Integrated)
Unit configuration	-	Constant Temp&Hum			Constant Temp
Total cooling capacity 2)	kW	3.7	7.5	12.5	3.7
Sensible cooling capacity 2)	kW	3.7	7.5	12.5	3.7
Air volume	m3/h	700	1350	2300	700
Sensible heat ratio	%	100	100	100	100
Standard distribution heating 3)	kW	1	2	3	1
Humidification capacity	kg/h	0.5	0.5	0.5	-
Compressor type (standard)	/	DC inverter			
Voltage	V	220	220	220	220
Frequency	Hz	60	60	60	60
Phase	P	1	1	1	1
Full load current	A	13.6	28.8	29	13
Unit weight	kg	30	39	58	47
Unit width	mm	440	440	440	440
Unit depth	mm	800	800	800	970
Unit height	mm	219 (5U)	310 (7U)	440 (10U)	350 (8U)
Air Conditioner Outdoor Unit					
Model	Unit	5	10	18	/
Voltage	V	220	220	220	/
frequency	Hz	60	60	60	/
Phase	P	1	1	1	/
Unit width	mm	886	882	995	/
Unit depth	mm	340	380	440	/
Unit height	mm	605	720	1256	/

Test conditions: indoor return air temperature 37°C, humidity 27%, outdoor temperature 35°C.

Micro Data Center

- ✓ Single-cabinet or double-cabinet micro-unit data center
- ✓ Single row micro data center



Edge Computing Data Center