Air Cooled In-row PAC

NetCol5000-A

Introduction

NetCol5000-A is configured with DC inverter compressor, EC fans, PTC electric heater and electrode humidifier. The cooling capacity has various specifications, such as, 20kW, 25kW, 35kW, etc. It is commonly deployed between the IT racks, and closely coupled with heat source so as to provide in-row cooling solution for medium-high density data centers. NetCol5000-A supports piping and cabling from both top and bottom side of the unit, and can be accessed from both front and back side. It is an efficient, reliable and simple solution, which helps to build next generation green data center.

NetCol5000-A

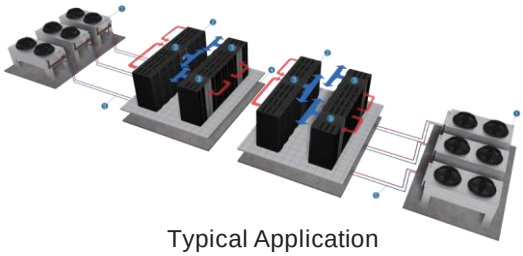
Application Scenarios

- Modular data center and container data center
- Equipment room with partial overheat, high thermal density room and room with high energy saving requirement
- Medium and small computer rooms and DC (IDC)
- Container data center

Value & Features

Efficient

- DC inverter compressor: 20%-100% Stepless capacity regulation, high efficiency at partial load, especially suitable for data center cooling system
- EC fan: stepless modulation, precisely matches the IT device air flow, 30% energy saving



Typical Application Scenarios

Reliable

- Stable operation at -40-+55ºC: works stably at extremely high/low ambient temperature, with less cooling capacity derating than others
- CE certified, strictly complies with Europe EMC standards
- Dehumidification at low load: Dehumidification available at min. 10% IT load ensures safe IT at extreme environment

DC Inverter Scroll Compressor

EC Fan

Simple

- Drawer type control & power modular design, maintenance work less than 1 minute
- Compressor is connected by Rotalock (screw), on-site replacement without brazing work
- Visible group control function, max. 32 units can be group controlled

Technical Specification

NetCol5000-A Technical Specification①

Unit Model	Unit	NetCol5000-A020H (300)	NetCol5000-A025H (300)	NetCol5000-A025H (600)	NetCol5000-A035H (600)
Air Discharge Direction	-	Horizontal			
Total Cooling Capacity②	kW	20.0	25.0	25.0	35.0
Sensible Cooling Capacity	kW	20.0	25.0	25.0	35.0
Air Volume	m^3/h	4000	5000	4,600	6,800
Power Supply	V/Ph/Hz	380-415/3/50 , 380/3/60		380-415/3/50(60) , 440-480/3/60	
Refrigerant	-	R410A			
Heating Capacity	kW	3	4	6	6
Humidifier Capacity	kg/h	2	1.5	3	3
Full Load Current③	A	23.0 (16.5)	30.0(20.0)	29.0 (23.0)	32.0 (26.0)
Dimension: W×D×H	mm	300×1000×2000	300×1100×2000	600×1100×2000	600×1100×2000
Net Weight	kg	230	230	350	350

① NetCol5000-A020H only supports down pipe, and other types support up and down pipe.

② Nominal cooling condition: Return air dry bulb temperature 37.8ºC/RH20%, condensing temperature 45ºC.

③ The data in brackets are applicable to the indoor unit without electric heater & humidifier.

Outdoor Condenser Technical Specification

Unit Model	Unit	NetCol500-A032	NetCol500-A036	NetCol500-A038	NetCol500-A072
Power Supply	V/Ph/Hz	380-415/3/50 , 380-415/3/60 , 440-480/3/60			
Fan Quantity	-	1	1	1	1
Liquid Pipe Diameter	in.	5/8		5/8	
Gas Pipe Diameter	in.	3/4		7/8	
Full Load Current	A	2.5	2.5	2.5	4.5
Dimension: W×D×H	mm	1370×1094×1160	1370×1094×1160	1370×1094×1160	2200×1094×1100
Net Weight	kg	110	130	130	185

Notice: The pipe diameter is only for reference and it may be changed based on the actual configuration.

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