

NetCol5000-A Series

In-row Air-cooled Smart Cooling

NetCol5000-A025H, NetCol5000-A035H, NetCol5000-A050H (Indoor units)

NetCol500-A040, NetCol500-A060, NetCol500-A080, NetCol500-A120 (Outdoor units)

INTRODUCTION

The NetCol5000-A is an in-row direct expansion cooling solution for small and medium sized data centers. It features closely coupled cooling, flexible deployment and easy expansion.

NetCol5000-A is typically installed between racks with high return air temperature for a lower PUE. It uses unique algorithm for precision management and intelligent O&M system, helping to build a simple, green, smart, reliable data center.

APPLICATION SCENARIOS

- Modular data center
- High power density data center
- Small and medium scale data center

FEATURES & VALUE

Simple

- 7 inch true color screen, real-time key information display
- Fault self-diagnosis helps for easy and fast O&M
- Rotalock connection on compressor, no welding in maintenance

Green

- Variable frequency driven compressor and EC fan for stepless cooling capacity regulation and higher efficiency
- 'Zero' energy consumption in humidification by wet-film

Smart

- Intelligent iCooling control algorithm reduces power consumption by up to 8%
- Automatic refrigerant detection for predictive alarm on refrigerant insufficiency

Reliable

- Online maintenance on indoor fans
- Expansion valve can be shut automatically upon sudden power loss to ensure compressor safety



NetCol5000-A
(300 mm width)

NetCol5000-A
(600 mm width)



NetCol500-A outdoor unit

SPECIFICATIONS

Indoor unit	Unit	NetCol5000-A025H	NetCol5000-A035H	NetCol5000-A050H
Air Flow	-	Horizontal	Horizontal	Horizontal
Total Cooling Capacity	kW	25	35	46
Sensible Cooling Capacity	kW	25	35	46
Air Flow Rate	m ³ /h	6,000	6,000	9,000
Power Supply	V/Hz/Ph	380/400/415Vac, 50/60Hz, 3Ph+N+PE 208~220Vac, 60Hz, 3Ph+N+PE	380/400/415Vac, 50/60Hz, 3Ph+N+PE	380/400/415Vac, 50/60Hz, 3Ph+N+PE 440/480Vac, 60Hz, 3Ph+PE
Refrigerant	-	R410A	R410A	R410A
Heating Capacity	kW	4.0	4.0	6.0
Humidifier Capacity	kg/h	1.0	1.5	3.0
Dimension: W×D×H	mm	300×1,100×2,000	300×1,200×2,000	600×1,200×2,000
Net Weight	kg	230 (380~415Vac) 275 (208~220Vac)	230	305

Remark:

- Air-cooled nominal condition: indoor: return air temp. 37°C/RH20%, outdoor: 35°C.
- Heating and humidification function are optional.

Outdoor unit	Unit	NetCol500-A040	NetCol500-A060	NetCol500-A080	NetCol500-A120
Power Supply	-	Power supply from indoor unit			
Liquid Pipe	in	5/8	5/8	5/8	5/8
Gas Pipe	in	3/4	7/8	7/8	7/8
Full Load Current	A	2.5	2.5	2.5	2.5*2
Dimension: W×D×H	mm	1120×1094×1096	1356×1094×1107	2186×1094×1107	2189×1356×1107
Net Weight	kg	155	130	240	250

Remark:

- Pipe size in actual project may vary. NetCol500-A120 is a dual-system unit. Two indoor units are used together with one dual-system outdoor unit.