

NetCol5000-A Series

(25-46 kW)

INTRODUCTION

NetCol5000-A is the in-row air cooled smart cooling solution adopting DC inverter compressor and high return air temperature design. It can match heat load intelligently. NetCol5000-A uses unique algorithm construct a precision management and intelligent O&M system, building an efficient, reliable and simple data center.

APPLICATION SCENARIOS

- Modular data center
- High power density data center
- Small and medium scale data center
- NetCol5000-A050H with water-cooled module is especially designed for large height or long refrigerant pipe scenarios

FEATURES

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



Water-cooled module

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.
- Water-cooled nominal condition: indoor: return air temp. 37°C/RH20%, supply water: 30°C, return water: 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.

Water-cooled module	Unit	NetCol500-W055
Power Supply	-	220-240Vac, 50/60Hz, 1Ph+N+PE
Refrigerant Pipe	in	Gas pipe: 7/8; Liquid pipe: 5/8
Water Pipe	-	Inlet/outlet: G1-1/2 internal screw
Full Load Current	A	0.15
Dimension: W×D×H	mm	1510*262*530
Net Weight	kg	60

Remark:

- Only the NetCol5000-A050H supports water-cooled module.