

In-row Air-cooled & Water-cooled Cooling Product

NetCol5000-A050H

Product Introduction

NetCol5000-A is an in-row air cooled smart cooling product, adopts DC inverter and high return air temperature design, matches load requirements intelligently. NetCol5000-A uses unique algorithm construct a precision management and intelligent O&M system, makes an efficient, reliable and simple data center.

Application Scenarios

- Modular data center
- High power density data center
- Small and medium scale data center
- Especially for high height distance or long refrigerant pipe scenarios

Value & Features

Efficient

Variable frequency design: 10%-100% stepless cooling capacity regulation, higher efficiency

Wet-film humidifier: saves energy by 95%+ compared with electrode humidifier

iCooling algorithm: intelligently optimizes operation status, reduces power consumption by 8%+

Reliable

On-line maintain: Indoor fan can be maintained on-line and replaced without shutdown

EEV shut automatically: Expansion valve will shut automatically after unexpected power cut, eliminate liquid return which may hit compressor

Refrigerant detection: AI algorithm detects the refrigerant content, generating charging prompt when the refrigerant is insufficient

Simple

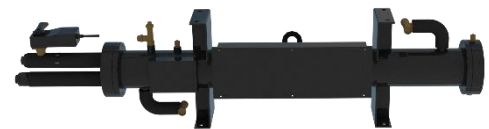
Intelligent display: 7" true color screen, display cooling capacity, air volume real-time, easy O&M

Fault self-diagnosis: remove irrelevant reason intelligently, guiding O&M engineer maintain quickly

No welding maintain: Compressor and dry filter use Rotalock connection, no welding on maintenance



NetCol5000-A050H



Water-cooled module



DC inverter compressor



EC Fan

Technical Specification

Indoor Unit Technical Specification

Item	Unit	NetCol5000-A050H
Air Discharge Direction	-	Horizontal
Total Cooling Capacity ¹	kW	46
Sensible Cooling Capacity	kW	46
Air Volume	m ³ /h	9,000
Power Supply Voltage	-	380/400/415Vac, 50/60Hz, 3Ph+N+PE 440/480Vac, 60Hz, 3Ph+PE
Refrigerant	-	R410A
Heating Capacity ²	kW	6
Humidifier Capacity ²	kg/h	3
Full Load Current	A	46
Dimension: W×D×H	mm	600×1,200×2,000
Net Weight	kg	305

1. Air-cooled nominal condition: indoor: return air temp. 37°C/RH20%, outdoor: 35°C.
2. Water-cooled nominal condition: indoor: return air temp. 37°C/RH20%, supply water: 30°C, return water: 35°C
3. Heating and humidification function are optional.

Outdoor Air-cooled Condenser Technical Specification

Item	Unit	NetCol500-A060	NetCol500-A080	NetCol500-A120
Power supply	V/Ph/Hz	Power supply from indoor unit		
Quantity of fans	pcs	1	2	2
Liquid pipe	in	Diameter 5/8 in		
Gas pipe	in	Diameter 7/8 in		
Dimension: W×D×H	mm	1356×1094×1107	2186×1094×1107	2189×1356×1107
Net Weight	kg	130	240	250

Note: actual pipe size may vary.

Outdoor Water-cooled Module Technical Specification

Item	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

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