

IN-ROW
COOLING



IN-ROW COOLING UNITS

COLD AISLE CONTAINMENT COOLING SYSTEMS

DATA SHEET

ArcTiv In-Row Cooling

PRODUCT FEATURES



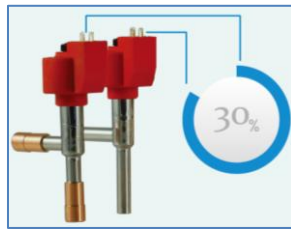
Precision Air Volume Control

EC-Type Fan can rapidly respond to output requirements which provides up to 30% savings over conventional AC fans



Variable Frequency Compressor

DC stepless speed regulation which accurately controls cooling capacity output, real-time manages heat load and optimizes efficiency.



Electronic Expansion Valve

Utilizes a microcontroller to accurately control the refrigerant flow via change in cooling output; providing up to 30% energy savings.

System Features



Energy Savings

High return air temperature drives data center energy efficiency.



Water Leaking Detection

Optional rope leak internal sensors with dehumidification



Compatible with IT Racks

Suitable for standard rack and cold-aisle containment systems



Monitoring & Control

Remote, automated alerts and compatible with DCIM's



Eliminate the Raised Floor

No underfloor cooling requirements with modular style in-row cooling

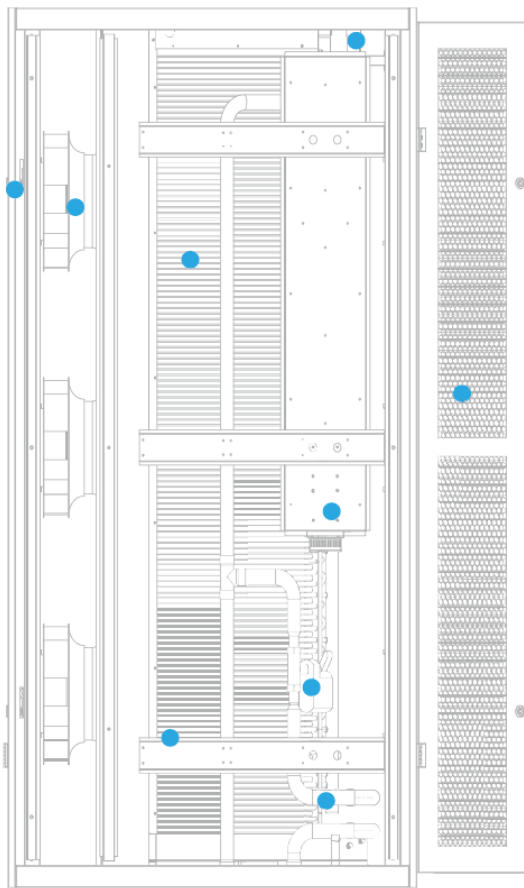


Heater & Dehumidifier

Manage the IT equipment temperature & humidity

ArcTiv In-Row Cooling

SPECIFICATIONS



In-Row Cooling Unit	
Total Cooling Capacity	25.5kW
Air Volume	5050 m ³ /h
Heating Power (Optional)	3kW
Humidification (Optional)	3kg / h
Voltage	380 / 400V
Frequency	50 / 60Hz
Phase	3-Phase
Full Load Current (Constant Temp & Humid)	27.3A
Full Load Current (Constant Temp)	22.7A
Weight	237kg
Width	300 / 600mm
Depth	1100 / 1200mm
Height	2000mm
Outdoor Unit	
Voltage	380 / 400V
Frequency	50 / 60Hz
Phase	3-Phase
Full Load Current	2.5A
Weight	120kg
Length	1380mm
Width	975mm
Height	700mm
Tripod Height	455mm

Main Components

- Intelligent Controller
- EC Fan
- High-Efficiency Heat Exchanger
- DC Variable Frequency Compressor
- Air Filter
- Electronic Expansion Valve
- Air/Fluid Pipes
- Optional Humidifier
- Optional Heater

Intelligent Controller

- Control up to 64 units via network (RS485), with redundancy management for rotational operation and unit failure.
- Graphical display with temperature & humidity curves and setting of environmental parameters.
- Alarm notification with up to 3,000 events logs and running time & maintenance reminders.
- Options include external temperature & humidity sensors, water leakage detector & condenser pump.

Notes

- Cooling data is based on 37°C and 25%RH indoor return air temperature and humidity.
- The minimum operating environment temperature of standard unit is -20°C; low-temperature unit is -40°C.
- The standard model is forward air supply.
- Input Power Supply Options:
 - 1P: 220V/230V @50 or 60Hz
 - 3P: 380V/400V @50 or 60Hz





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Power



Protect



Cool



Connect

ArcTiv Technologies is a global technology vendor whose mission is to **Power, Protect, Cool and Connect** your data center and edge-computing network infrastructure.

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