

RowCool R-30/45

In-row Cooling, Direct Expansion

Elevate your data center with Delta's R Series! Featuring state-of-the-art DC inverter compressors and electronically commuted (EC) fans, the R Series represents the pinnacle of cooling technology. By leveraging Delta's advanced fuzzy control mode, these units deliver unmatched efficiency in direct expansion (DX) cooling systems. Crafted to enhance efficiency and power density in medium- to small-sized data centers, the R Series offers unmatched convenience and simplified maintenance. Bid farewell to costly ownership expenses – with Delta, achieving optimal efficiency for your data center is within reach. Make the savvy choice, opt for Delta's R Series now!



High Efficiency

- Variable Speed Fans: EC Fans adjust in real-time to minimize power waste
- Adaptive Cooling: DC variable frequency compressor adjusts from 20% to 100% to maintain optimal temperature
- Effective Heat Removal: quickly adapts to IT heat loads for efficient cooling

Superior Reliability

- Dual Power Input: integrates seamlessly into any power reliability architecture of any tier level
- Automatic Safety: compressor shuts off at unsafe pressures
- Precision Control: MCU ensures accurate temperature and automatic unit adjustment
- Comprehensive Monitoring: includes real-time flow and leakage detection
- Secure Access: lockable front and rear door

Great Adaptability

- Flexible Installation: supports top or bottom piping and wiring
- Tailored Alarms: configurable with input and output dry contacts
- Tool-Free Mobility: casters allow easy installation and relocation without extra tools

Technical Specifications

Model	R-30	R-45
Nominal Cooling Capacity	30 kW ⁽¹⁾	45.6 kW ⁽¹⁾
Sensible Cooling Capacity	30 kW	45.6 kW
DEPLOYMENT		
Refrigerant	R410A	
Piping Connection Location	Top/Bottom	
Refrigerant Discharge Piping	5/8 inch	7/8 inch
Refrigerant Liquid Piping	1/2 inch	5/8 inch
Airflow Rate	2940 CFM	5060 CFM
Air Discharge Direction	Front	
POWER SUPPLY		
Nominal Power Supply Voltage	380/400/415/480 Vac, 3P4W+PE	
Operating Voltage Range	342-528 Vac	
Frequency	50/60 Hz	
Maximum Power Consumption	10.3 kW	
Full Load Current	29 A	45 A
Dual Power Feed	Standard	
PHYSICAL		
Dimensions (W x D x H)	300 x 1090 x 2000 mm	600 x 1090 x 2000 mm
Net Weight Cooling	216 kg	300 kg
Cooling+ Reheater+ Humidifier	220 kg	303 kg
Cooling+ Reheater+ Electrode Humidifier	223 kg	306 kg
COMMUNICATION INTERFACE		
Display	10" color LCD touchscreen	
Protocols	Modbus RTU, SNMP	
CONFORMANCE		
Safety	CE	
FEATURES		
Leak Detection	Standard	
Dual Power Feeds	Optional	
Modbus and BACnet	Standard	
Remote Rack Temperature and Humidity	Standard	
Seismic Rating Zone 4	Optional	
Reheat and Humidifier Lockout	Standard	
Optional Heater	3 kW	6 kW
Optional Wet Membrane Humidifier	1.5 kg/hr	3 kg/hr
Optional Electrode Humidifier	3 kg/hr	

(1) Cooling capacity is rated at a 40°C return air dry bulb temperature, 21°C wet bulb temperature, and 35°C outdoor temperature.

Outdoor Unit-Condenser

Model	R-30 Condenser - RDA037	R-45 Condenser - RDA059
Nominal Power Supply Voltage	380/400/415/480 Vac, 3P4W+PE	
Frequency	50/60 Hz	
Fan Quantity	1 pcs	
Dimensions (W x D x H)	1725 x 1100 x 1120 mm	
Net Weight	110 kg	120 kg

All specifications are subject to change without prior notice.



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