

# RowCool R-30/ R-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

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- 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

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- 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

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- 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 <sup>(1)</sup>	45.6 kW <sup>(1)</sup>	
Sensible Cooling Capacity	30 kW	45.6 kW	
<b>DEPLOYMENT</b>			
Refrigerant	R410A		
Piping Connection Location	Top/ Bottom		
Refrigerant Discharge Piping	5/8"	7/8"	
Refrigerant Liquid Piping	1/2"	5/8"	
Airflow Rate	5000 CFM	8600 CFM	
Air Discharge Direction	Front		
<b>POWER SUPPLY</b>			
Nominal Power Supply Voltage	380/ 400/ 415 Vac, 3P4W+PE		
Operating Voltage Range	342-456 Vac		
Frequency	50/ 60 Hz		
Maximum Power Consumption	10.3 kW		
Full Load Current	29 A	45 A	
Dual Power Feed	Standard		
<b>PHYSICAL</b>			
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
<b>COMMUNICATION INTERFACE</b>			
Display	10" color LCD touchscreen		
Protocols	Modbus RTU, SNMP		
<b>ENVIRONMENT</b>			
Operating Temperature	4 to 40.6°C		
Humidity	30-80%		
<b>CONFORMANCE</b>			
Safety	CE		
<b>FEATURES</b>			
Leak Detection	Standard		
Dual Power Feed	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 Vac, 3P4W+PE	
Frequency	50/ 60 Hz	
Fan Quantity	1	
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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