

Delta InfraSuite Precision Cooling

Rear Door Heat Exchanger (RDHx), CoolDoor 30/50 kW

Delta CoolDoor is the ideal solution for high-power-density racks. With EC fans ensuring reliability and efficiency, it removes heat at the source, preventing hot air in the room. No need for added footprint or raised floor, the CoolDoor saves space and reduces CAPEX. The turbo boost dissipates heat from neighboring racks, and the leakage detection ensures high reliability. Elevate your data center performance with Delta CoolDoor!



Unparalleled Reliability

- Built-in MCU precisely controls water and air flow for accurate temperature management
- Ensures chiller system stability during power recovery with a two-way ball valve design post-emergency shutdown
- Turbo boost control ensures uninterrupted operation by utilizing adjacent RDHx during ball valve or fan failure
- Enhances equipment protection with 4m water leakage detection and integrated cut-off valve (option) to minimize potential damage
- Integrated ATS (optional) for continuous operation
- Elevates security with lockable access door

Efficient Use of Space and Energy

- No hot aisle containment needed
- Low profile design mounts seamlessly on the rear of the rack, saving valuable space
- Enhance energy savings with an adjustable fan speed (30-100%) and high-efficiency EC fan

Easy Management

- LCD screen and LED indicators for onsite monitoring system status and control
- Empowers remote monitoring through input dry contact and external RTU device
- Tailor-made ducts, perfect for all rack types
- Hot-swappable fans and sensors allow for quick and easy maintenance
- Flow control valve (optional) delivers high cooling availability and control



Technical Specifications

Model	D30	D50
Cooling Capacity	30 kW ⁽¹⁾	50 kW ⁽²⁾
Rated Air Flow	3812 CFM	4016 CFM
POWER SUPPLY		
Nominal Voltage	200-240 Vac, 1P2W+PE	
Frequency	50/60 ± 3 Hz	
Input Connection Type	NEMA 6-15P, Top inlet	
MECHANICAL		
Valve Type	2-way valve, FC type	
Fan Type	EC	
Fan Quantity	4	
Water Leakage Detector	4m length	
DEPLOYMENT		
Rated Power Consumption (Rating Input Power)	0.44 kW	0.67 kW
Rated Water Flow	55 LPM	90 LPM
Piping Connection	Top/ Bottom	
Piping Size	1 inch	1 1/4 inch
COMMUNICATION INTERFACE		
Display	LCD display with LED indicators	
Port	MODBUS (RS-485), Remote On/Off input dry contact, Fire alarm input dry contact, Total alarm output dry contact	
PHYSICAL		
Dimensions (W x D x H)	600 x 345 x 1970 mm (23.6 x 13.6 x 77.4 in)	
Net Weight	90 kg (198 lb)	98 kg (216 lb)
Compatible Rack	Height	Width
	2000/ 2200 mm	600/ 800 mm
ENVIRONMENT		
Inlet Chiller Water Temperature	12 °C (recommended) to 20 °C ⁽³⁾ Inlet chiller water temperature should be higher than dew point temperature	
Maximum Operating Pressure	10 bar (145 psi)	
Maximum CW Flow Rate	82 LPM (PICV 69 LPM)	122 LPM (PICV 108 LPM)
CONFORMANCE		
Safety	CE, UL ⁽⁴⁾	
FEATURES		
Leak Detection	Standard	
Dual Power Feed/ ATS	Option	
PICV Valve	Option	
T/RH Sensor-Cold Side Dew Point Monitoring	Option	
Cut-off Valve (Isolate Leakage RDHx)	Option	
Air Static Pressure Sensor	Option	
Quick Disconnect Couplings	Option	
BACnet	Option	
SNMP Card	Option	

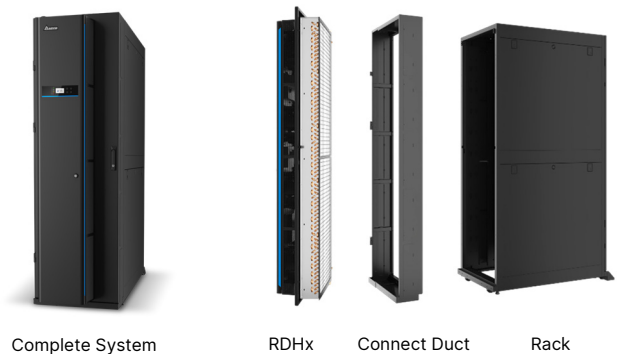
(1) Conditions for D30 rated capacity at return air: 42 °C (108 °F), Inlet water 12 °C (54 °F) and outlet water 20 °C (68 °F)

(2) Conditions for D50 rated capacity at return air: 50 °C (122 °F), Inlet water 12 °C (54 °F) and outlet water 20 °C (68 °F)

(3) Over 12 °C requires cooling capacity derating

(4) UL provided upon request

All specifications are subject to change without prior notice.



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