

L-70/90

Room Cooling, Chilled Water

Introducing Delta's L Series room cooling-engineered for superior reliability and efficiency. This advanced chiller offers precise temperature control with intelligent management, energy-efficient EC fans, and ATS. Engineered for high-temperature applications with its advanced heat exchanger design. The Delta L Series combines intuitive controls with superior insulation to deliver optimal performance and protection for your critical cooling needs.



Superior System Reliability

- Intelligent Control: built-in MCU adjusts cooling water and air flow to maintain optimal temperature control
- Built-in ATS: automatically switch to backup power feed to ensure uninterrupted operation
- Two-way Ball Valve: stabilizes chilled water flow and prevents fluctuations during power recovery

Optimized Energy Efficiency

- EC Fan: adjustable-speed fan (30-100%) for customized energy savings
- Double Wall Panel: high-insulation panels reduce heat loss and enhance energy efficiency
- User-Friendly Touchscreen Control Interface: simplifies system management and monitoring for efficient operation

Comprehensive Safety Features

- Alarm System with Smoke Detection: alerts user to system abnormalities and provides early fire warning
- Water Leakage Detection: immediate alerts for any water leakage to protect equipment
- Lockable Access Door: tool-required locking mechanism ensures secure access before startup

Technical Specifications

Model	L-70	L-90
Total Cooling Capacity	70 kW ⁽¹⁾	88.4 kW ⁽²⁾
Sensible Cooling Capacity	70 kW	88.4 kW
Airflow Rate	11500 CFM	10018 CFM
DEPLOYMENT		
Maximum Water Flow Rate	133 LPM	180 LPM
Maximum Water Pressure Drop	79.98 kPa	59.98 kPa
Water Piping Connection	1 1/2 inch Flange	1 1/2 inch PT Female
Drain Piping Size	5/8 inch	3/8 inch
Fan Type and Quantity	EC fan x2	
Air Discharge Direction	Front	
POWER SUPPLY		
Nominal Power Supply Voltage	460 Vac, 3P3W	380/400/415 Vac, 3P4W+PE
Operating Voltage Range	414-506 Vac	342-456 Vac
Frequency	60 HZ	50/60 Hz
Maximum Power Consumption	8.6 kW	7.2 kW
Dual Power Feed	Standard	
PHYSICAL		
Dimensions (W x D x H)	2134 x 914 x 2896 mm	1600 x 900 x 2150 mm
Net Weight	971 kg	494 kg
COMMUNICATION INTERFACE		
Display	10" color LCD touchscreen	
Port	Modbus TCP (RJ45) x1, Output dry contact x1	Modbus TCP (RS-485) x1, Input dry contact x1, Output dry contact x1
ENVIRONMENT		
Operation Temperature	18 to 40.6°C	
Humidity	17.7-85%	
CONFORMANCE		
Safety	UL	CE
Seismic Rating	SDC D	GR63 ZONE4
FEATURES		
Leak Detection	Standard	
Pressure Independent Control Valves (PICV)	Standard	N/A
Drain Pump	Standard	
Remote Rack Temperature and Humidity	Optional	

(1) Cooling Capacity: At 35°C (95°F) dry bulb, 18.3°C (65°F) wet bulb, and 21.1°C (70°F) inlet water

(2) Cooling Capacity: At 38°C (100.4°F) dry bulb, 23.9°C (75°F) wet bulb, 10°C (50°F) inlet water and 17°C (62.6°F) outlet water

(3) Cooling Capacity: At EAT/LAT 35.6/23.3°C (96/ 74°F), EWT/LWT: 18.3/26.1°C (65/79°F)

All specifications are subject to change without prior notice.



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