

# M-25/30/40/50/60/70/80/90/100

## Room Cooling, Direct Expansion

In today's AI-driven data centers, where efficiency and adaptability are essential, the Delta M Series Room Cooling System offers a sophisticated solution that complements the growing need for effective air cooling alongside advanced liquid cooling technologies. Our system is meticulously engineered to deliver toptier performance, energy efficiency, and flexibility, addressing the critical cooling demands of modern data centers.



### Superior Efficiency and Energy Saving

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- Advanced fan technology: EC and downdraft fans saves over 20% energy compared to conventional setups
- High sensible heat ratio: unit boasts a sensible heat ratio above 0.9 for enhanced cooling efficiency

### Modular Design and Flexible Installation

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- Modular operation: modules can operate independently or be combined as needed, simplifying on-site assembly and disassembly
- Compact footprint: high refrigeration capacity with a small footprint
- Adaptive layout: units can be installed together or separately, offering flexible space planning, overcoming size constraints, and allowing for easy adjustment to cooling load

### Maintenance Convenience and Advanced Control

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- Comprehensive interface support: RS-485, Ethernet, Modbus RTU, Modbus TCP, SNMP, HTTP
- Advanced control system: feature touchscreen with an intuitive interface, reliable CAN bus control for up to 32 units, and supports group control functions as round-up, backup and cascade, preventing competitive operation
- Fully front access: simplifies maintenance

## Technical Specifications

Downward Air Supply Model	M-	25DA1	30DA1	40DA1	40DA2	50DA2	60DA2	70DA2	80DA2	90DA2	100DA2		
Upper Air Supply Model	M-	25UA1	30UA1	40UA1	40UA2	50UA2	60UA2	70UA2	80UA2	90UA2	100UA2		
Total Cooling Capacity	kW	25.2	30.3	40.3	40.2	50.1	60.1	70.1	80.2	90.2	100.1		
Sensible Cooling Capacity	kW	22.9	27.5	36.5	36.3	45.3	54.3	63.3	72.5	83.4	90.5		
Airflow Rate	m <sup>3</sup> /h	6800	8000	10600		13300	15600	18300	21000	23500	26700		
Heating Capacity		6 kW			9 kW			12 kW					
Humidifier Capacity		5 kg/h				13 kg/h							
<b>POWER SUPPLY</b>													
Nominal Power Supply Voltage		380/400 Vac, 3P4W+PE											
Operating Voltage Range		342-418 Vac											
Frequency		50 HZ											
Maximum Power Consumption		20 kW	21 kW	28 kW	29 kW	34 kW	40 kW	45 kW	50 kW	54 kW	60 kW		
Full Load Current		34 A	37.5 A	50.1 A		57.2 A	67.2 A	79.1 A	90.3 A	97.8 A	105.9 A		
<b>MECHANICAL</b>													
Refrigerant Type		R410A											
Compressor Quantity		1 pcs			2 pcs								
EC Fan Quantity		1 pcs						2 pcs					
Condenser Model and Quantity		CM35 x1	CM45 x1	CM60 x1	CM30 x2	CM35 x2	CM45 x2	CM50 x2	CM60 x2	CM65 x2	CM75 x2		
<b>PHYSICAL</b>													
Dimensions (W x D x H)	mm	905 x 990 x 1980			1305 x 990 x 1980			1780 x 990 x 1980		2180 x 990 x 1980			
Net Weight		347 kg	381 kg	455 kg	475 kg	498 kg	664 kg	668 kg	724 kg	729 kg	749 kg		
<b>COMMUNICATION INTERFACE</b>													
Display		LCD touchscreen											
Port		Modbus RTU, Modbus TCP, SNMP, HTTP											
<b>FEATURES</b>													
Leak Detection		Standard											
Room Temperature and Humidity Sensor		Standard											
Condensate Drain Pump		Optional											
Air Economizer for Direct Free Cooling		Optional											
Motorize Damper		Optional											
Dual Power Feeds		Optional											
PTC Heating System		Optional											
Electrode Humidifier		Optional											

(1) Outdoor ambient temperature: 35°C

## Condenser

Model	CM-30	CM-35	CM-45	CM-50	CM-60	CM-65	CM-75	
Airflow Rate	7920 m <sup>3</sup> /hr	8280 m <sup>3</sup> /hr	9620 m <sup>3</sup> /hr	12000 m <sup>3</sup> /hr	13420 m <sup>3</sup> /hr	15230 m <sup>3</sup> /hr	16980 m <sup>3</sup> /hr	
Nominal Power Supply Voltage	200/208/220/230/240 Vac, 1P2W+PE							
Frequency	50 Hz							
Power Consumptions	0.55 kW			1.1 kW				
Fan Quantity	1 pcs			2 pcs				
Dimensions (W x D x H)	1290 x 975 x 965 mm	1290 x 1076 x 965 mm			1795 x 975 x 965 mm	2095 x 975 x 965 mm		2095 x 1076 x 965 mm
Net Weight	73 kg	79 kg	87 kg	120 kg	128 kg	139 kg	148 kg	

All specifications are subject to change without prior notice.



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