DX-P COOLING SYSTEMS DATA SHEET 10, 20 & 40kW

MITSUBISHI ELECTRIC
CRITICAL POWER SOLUTIONS

Version	Inverter Compressor					On/Off Compressor			
Airflow Version	Upflow		Downflow			Upflow		Downflow	
Model	10 kW	20 kW	10 kW	20 kW	40kW	10 kW	20 kW	10 kW	20 kW
COOLING CAPACITY (Btu/h)[1][2]									
Total Cooling Capacity	34,800	71,300	34,100	69,300	149,000	37,900	67,200	37,200	66,500
Sensible Heat Ratio (SHR)[3]	1.00	0.98	1.00	0.99	0.97	0.99	0.98	0.99	0.98
Sensible Cooling Capacity	34,800	69,900	34,100	68,900	145,000	37,500	66,200	36,900	65,200
SUPPLY FAN									
Fan Type	Radial EC					Radial EC			
Air Flow (CFM)	1,707	3,180	1,710	3,180	7004	1,942	3,296	1,942	3,296
CONDENSER FAN									
Fan Type	Axial EC					Axial EC			
Air Flow (CFM)	2,300	4,000	2,300	4,000	10,000	2,295	4,002	2,295	4,002
REFRIGERANT									
Refrigerant	R410A					R410A			
ENERGY INDEX[2]									
EER Energy Efficiency Ratio (Btu/W*h)	11.7	10.60	11.40	10.5	10.4	11.9	11.7	11.7	11.6
POWER SUPPLY REQUIREMENTS									
Voltage + Configuration	460V 3 PH + GND					460V 3 PH + GND			
DIMENSIONS									
Length (in)	31.5	47.25	31.5	47.25	70.87	31.5	47.25	31.5	47.25
Depth (in)	27.375				37.8	27.375			
Height (in)	84.25				86.42	84.25			
Net Weight (lbs)	520	680	520	680	1,320	490	640	490	640

[1]Net Value: Gross Cooling Capacity produced by the cooling coil minus the heat produced by the fan. Characteristics referred to entering air at 80.0°F DB (26.7°C) and 67.0°F WB (50% RH) and ambient temperature 95.0°F (35°C). ESP: 0 inWg 0 (Pa).

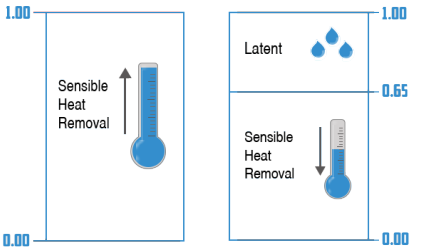
[2]Ref. ANSI/AHRI Standard 390-2003 "Performance of Single Package Vertical Air-Conditioners..."

[3]SHR: Sensible Cooling Capacity / Total Cooling Capacity

HIGH EFFICIENCY

With a Sensible Heat Ratio (SHR) of up to 1.0, 100% of the energy power supplied by the compressor is used for Sensible Heat Removal. A higher SHR means less coolers are required to condition a space, leading to lower operating costs.

CRITICOOL COOLING VS. COMFORT COOLING



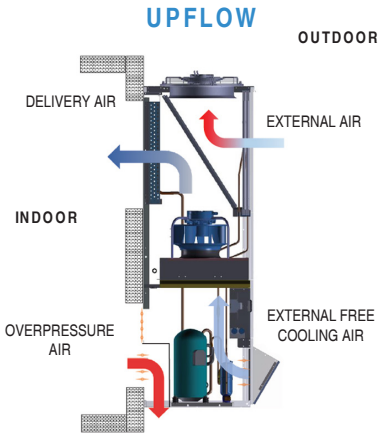
FEATURES & BENEFITS

1. Specifically designed for cooling modular structures containing auxiliary backup power supplies and electrical/IT equipment
2. Wide ambient operating temperature range [0°F (-18°C) to 125°F (52°C)]
3. Optional "Economizer" package for extended functionality to -40°F (-40°C) and use of outside air to be mixed with recirculated/exhaust air for higher efficiency
4. Microprocessor Control System with graphic displays for control and monitor of operating and alarms status

- Built-in memory for storing events (up to 200 events recorded)
- Predisposition for connectivity board housing (RS485 Modbus, BACnet, MS/TP, BACnet-Modbus over IP, TCP-IP, SNMP). Electronic cards are optional accessories.
- Non-volatile "Flash" memory for data storage in case of power supply fault
- Menu with protection password
- LAN connection (max 15 units)

5. 10+ year life span & total frontal access for easy maintenance

INNOVATIVE DESIGN



ABOUT US

Based in Pittsburgh, PA, the Critical Power Solutions Division (CPSD) is a business unit of Mitsubishi Electric Power Products, Inc. (MEPPI). Mitsubishi Electric has been manufacturing precision engineered highly reliable uninterruptible power supplies since 1964 and introduced a line of cooling systems in 2021. CPSD's operations include Project Application Engineering, Design Engineering, Service & Support, Manufacturing & Warehousing, Quality, Sales and Marketing.

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