DX-P COOLING SYSTEMS DATA SHEET 10 & 20kW

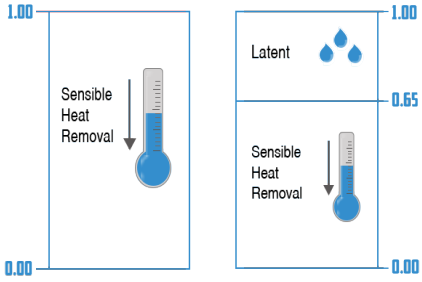
MITSUBISHI ELECTRIC
CRITICAL POWER SOLUTIONS

Version	Inverter Compressor				On/Off Compressor			
Airflow Version	Upflow		Downflow		Upflow		Downflow	
Model	10 kW	20 kW	10 kW	20 kW	10 kW	20 kW	10 kW	20 kW
COOLING CAPACITY (Btu/h)[1][2]								
Total Cooling Capacity	33,800	69,000	33,200	67,000	36,200	64,500	35,600	63,500
Sensible Heat Ratio (SHR)[3]	1.00	0.98	1.00	1.00	0.99	0.98	0.99	0.98
Sensible Cooling Capacity	33,800	67,620	33,200	67,000	35,838	63,210	35,244	62,230
SUPPLY FAN								
Fan Type	Radial EC				Radial EC			
Air Flow (CFM)	1,710	3,180	1,710	3,180	1,940	3,300	1,940	3,300
CONDENSER FAN								
Fan Type	Axial EC				Axial EC			
Air Flow (CFM)	2,300	4,000	2,300	4,000	2,300	4,000	2,300	4,000
REFRIGERANT								
Refrigerant	R410A				R410A			
ENERGY INDEX[2]								
EER Energy Efficiency Ratio (Btu/W*h)	11.35	10.30	11.10	10.15	11.40	11.25	11.15	11.10
POWER SUPPLY REQUIREMENTS								
Voltage + Configuration	460V 3 PH + GND				460V 3 PH + GND			
DIMENSIONS								
Length (in)	31.5	47.25	31.5	47.25	31.5	47.25	31.5	47.25
Depth (in)	27.375				27.375			
Height (in)	84.25				84.25			
Net Weight (lbs)	520	680	520	680	490	640	490	640

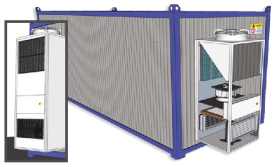
HIGH EFFICIENCY

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 / LON). 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)

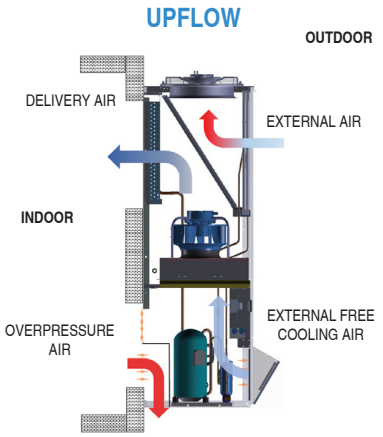
5. 10+ year life span & full frontal access for easy maintenance

[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

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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