

AIR-COOLED, MAGNETIC BEARING CHILLER



FEATURES & BENEFITS

1 Optimized for Higher Water Temps

- Ideal for modern data center workloads
- 65-75°F supply water temp (SWT)
- 16-20°F ΔT (w/broader operating capability)

2 Modular Design

- 350-500 ton modular capacity for rapid, scalable deployment

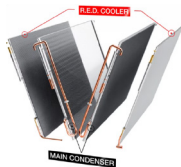
3 Efficient & Reliable

- Stable operation across load, ambient, and power disturbances
- Oil-free, variable-speed compressors
- Designed for low-lift operation
- OEM support for installation and maintenance



4 Compact Footprint

- Minimizes recirculation risk
- More capacity in less space
- Fits in a 40', High Cube container
- Reduced crane, rigging, steel, and pad requirements



R.E.D. Cooler

Reduced Exergy Depletion

Patented solution features an independent subcooling coil, separate from the main condensing circuit, creating an additional heat rejection stage which improves the thermodynamic cycle increasing efficiency and cooling capacity

		350T	500T
COOLING CAPACITY ^{1,2}			
Gross Cooling Capacity	kW (RT)	1,207 (343)	1,768 (503)
EFFICIENCY ¹			
Total Power Input	kW	305	456
Coefficient of Performance	kW/kW	3.95	3.88
kW/RT Ratio	kW/RT	0.89	0.907
SERIES EVAPORATOR			
Type		Flooded	Flooded
Quantity		2	2
Water Flow Rate ¹	GPM	516	757
Evaporator Water Volume	GAL	57	91
Minimum Required System Volume	GAL	1,321	1,321
Connection Size	in	5"	6"
CONDENSER FANS			
Type	in	36" Axial EC	36" Axial EC
Number of Fans		16	20
COMPRESSORS			
Type		Centrifugal	Centrifugal
Number of Compressors		2	4
Refrigerant Circuits		2	4
Refrigerant		R515B	R515B
Factory Refrigerant Charge	lbs	1,499	1,896
SOUND ³			
Sound Power Level (LwA)	dB(A)	108	107
Sound Pressure Level (LpA)	dB(A)	75	74
ELECTRICAL			
Power Supply	V / Ph / Hz	460V / 3Ph / 60Hz	460V / 3Ph / 60Hz
Full Load Amps ¹	A	537	1,018
PHYSICAL			
Dimensions	ft	31.2' x 7.41' x 8.20'	31.2' x 7.41' x 8.20'
Operating Weight	lbs	23,589	30,865

¹ Performance based on 66°F/82°F (18.9°C/27.8°C entering/leaving water temperature and 108°F (42°C) ambient temperature using 100% water.

² AHRI 550/590 Certified.

³ Sound data based on ISO 9614.

ABOUT US

Based in Pittsburgh, PA, the Critical Power Solutions Division (CPSD) is a business unit of [Mitsubishi Electric Power Products, Inc. \(MEPPI\)](http://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.

