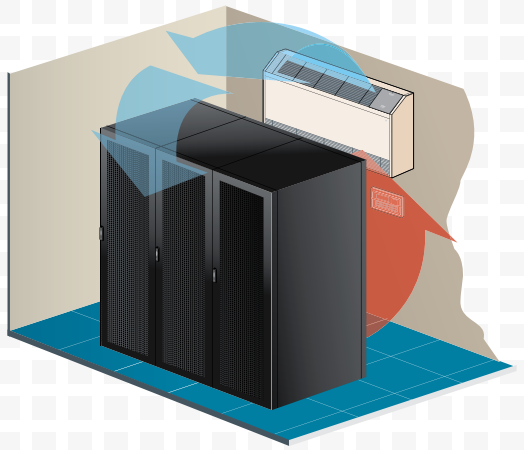
Precision Cooling
For *Business-Critical Continuity™*

Liebert® DataMate™

Economical, Space-Saving Cooling Systems For Sensitive Electronics

EMERSON
Network Power

Precision Cooling Designed To Fit The Smallest Spaces



Liebert DataMate precision environmental systems are the perfect solution for cramped quarters requiring temperature and humidity control for sensitive electronics. And while the systems are matched to meet the needs of computers, they are also designed to be convenient for the people sharing space with the protected equipment.

Space-saving. The slim, compact Liebert DataMate may be wall- or floor-mounted, and requires minimal service access, limiting floor space requirements.

High sensible cooling capacity. Unlike "comfort" air conditioners, Liebert precision cooling systems are designed for the cooling requirements of electronic equipment—80% of the capacity dedicated to the removal of dry "sensible" heat, and 20% for control of humidity.

Reliable. The Liebert DataMate installed-base is a testimonial to system reliability. Components include a compressor; a high efficiency copper-tube, aluminum-fin evaporator coil; and a double inlet, direct drive fan.

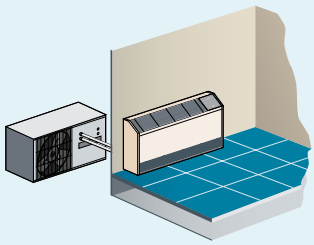
Quiet. The units are designed to operate quietly with the compressor vibration-isolated from the chassis. The cabinet is also insulated to further ensure quiet operation. On many models, the compressor-containing condensing unit can be remotely located to further reduce noise levels in the controlled space. Quiet-Line outdoor condensing units are available for 6-8 dba sound level reduction over the standard models.

Flexibility options. Liebert DataMate 60Hz systems are available in capacities of 1.5, 2 and 3 tons in air, water, glycol, and a self-contained 3 ton chilled water model (3-Ton models only in 50Hz). Systems may be configured as self-contained or separated from the condensing unit, depending on the model.

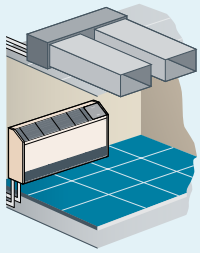
Easy installation. All Liebert DataMate components are precharged, and require no field brazing, evacuation or charging. Precharged refrigerant lines are available to connect evaporator and remote condensing unit modules when required.

Two-speed fan operation. High speed provides quiet operation and maximum cooling. Low speed provides maximum dehumidification and lowest sound level. The speed can be automatically or manually selected.

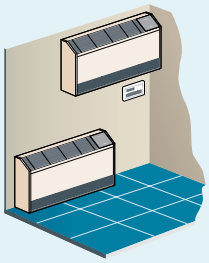
Corrosion-Resistant Cabinet. Durability is ensured with Powder Coated Paint panels.



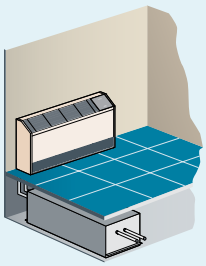
Outdoor Air Cooled. Suitable for roof or ground level site. The condensing unit is designed for operation as low as -30˚F.



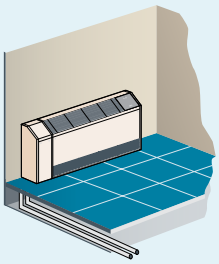
Indoor Air Cooled. For high-rise and other applications where roof or ground level locations are impractical. May be located above the dropped ceiling and ducted to the outside. Designed for operation down to -20˚F ambient.



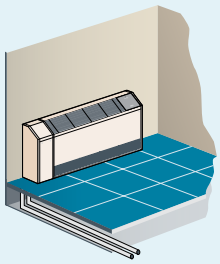
The compact Liebert DataMate system requires minimal floorspace; when wall-mounted, no floorspace is required.



Water/Glycol Cooled Remote. Utilizes an existing water or glycol loop. Condensing unit is located under the raised floor or above the dropped ceiling.



Water/Glycol Cooled Integral. Totally packaged. A single power and water supply connection puts the unit in operation.



Chilled Water. This unit simply connects to a chilled water loop, for quick and easy installation.

Indoor and outdoor condensing unit options maximize Liebert DataMate installation options for better system flexibility. Outdoor models are available in Quiet-Line and High Ambient versions.

Specifications

		60Hz					50Hz	
		Air-Cooled System						
		with Outdoor Condensing Unit Split System			with Indoor Condensing Unit Split System		with Outdoor Condensing Unit Split System	with Indoor Condensing Unit Split System
Evaporator		DME020E	DME027E	DME037E	DME027E	DME037E	DME037E	DME037E
Condensing Unit		PFH020A	PFH027A	PFH037A	MCD24A	MCD36A	PFH036A	MCD35A
Net Capacity Data* - kW (Btuh) - High Fan Speed								
80°F DB (26.7°C) 38 %RH	Total	5.40 (18,500)	7.10 (24,200)	10.1 (34,600)	6.85 (23,300)	9.60 (32,700)	9.90 (33,800)	9.45 (32,300)
	Sensible	5.40 (18,500)	7.10 (24,200)	9.70 (33,100)	6.85 (23,300)	9.40 (32,000)	8.85 (30,200)	8.65 (29,500)
75°F DB (23.9°C) 45 %RH	Total	5.05 (17,200)	6.60 (22,500)	9.75 (33,200)	6.35 (21,700)	9.15 (31,300)	9.55 (32,500)	9.10 (31,100)
	Sensible	4.90 (16,700)	6.50 (22,200)	8.60 (29,400)	6.35 (21,600)	8.35 (28,500)	7.90 (26,900)	7.70 (26,300)
72°F DB (22.2°C) 50 %RH	Total	4.85 (16,500)	6.35 (21,700)	9.50 (32,400)	6.10 (20,800)	8.95 (30,600)	9.30 (31,800)	8.90 (30,400)
	Sensible	4.50 (15,400)	6.05 (20,600)	7.95 (27,100)	5.90 (20,100)	7.70 (26,200)	7.30 (24,900)	7.10 (24,300)

		60Hz						50Hz	
		Water Cooled			Glycol Cooled			Water Cooled	Glycol Cooled
Evaporator		DME020E	DME027E	DME037E	DME020E	DME027E	DME037E	DME037E	DME037E
Condensing Unit		DMC022WG	"DMC029WG/ MCD26W"	"DMC040WG/ MCD38W"	DMC022WG	"DMC029WG/ MCD26W"	"DMC040WG/ MCD38W"	MCD37W	MCD37W
Net Capacity Data* - kW (Btuh) - High Fan Speed									
80°F DB (26.7°C) 38 %RH	Total	5.90 (20,100)	7.95 (27,200)	11.4 (38,900)	5.15 (17,600)	6.75 (23,000)	9.65 (32,900)	11.3 (38,700)	9.30 (31,800)
	Sensible	5.80 (19,800)	7.90 (27,000)	10.3 (35,300)	5.15 (17,600)	6.75 (23,000)	9.40 (32,100)	9.55 (32,600)	8.60 (29,300)
75°F DB (23.9°C) 45 %RH	Total	5.50 (18,800)	7.55 (25,800)	11.0 (37,400)	4.80 (16,300)	6.25 (21,300)	9.20 (31,400)	11.0 (37,400)	8.95 (30,500)
	Sensible	5.15 (17,600)	7.10 (24,200)	9.20 (31,400)	4.75 (16,200)	6.25 (21,300)	8.35 (28,500)	8.55 (29,200)	7.60 (26,000)
72°F DB (22.2°C) 50 %RH	Total	5.35 (18,100)	7.35 (25,000)	10.7 (36,600)	4.60 (15,700)	6.00 (20,500)	8.95 (30,600)	10.7 (36,600)	8.75 (29,900)
	Sensible	4.75 (16,200)	6.55 (22,300)	8.55 (29,100)	4.35 (14,900)	5.85 (19,900)	7.70 (26,300)	7.95 (27,200)	7.05 (24,000)

		60 Hz	50 Hz
Evaporator		CHILLED WATER	
Condensing Unit		DME044C	DME044C
Net Capacity Data* - kW (Btuh) - High Fan Speed			
80°F DB (26.7°C) 38 %RH	Total	10.5 (36,000)	9.1 (31,100)
	Sensible	9.65 (32,900)	8.3 (28,200)
75°F DB (23.9°C) 45 %RH	Total	8.45 (28,900)	7.6 (25,900)
	Sensible	7.95 (27,100)	6.8 (23,200)
72°F DB (22.2°C) 50 %RH	Total	7.65 (26,100)	6.6 (22,600)
	Sensible	6.90 (23,500)	5.9 (20,200)

* The net capacity data has fan motor heat factored in for all ratings and the entering air conditions of 75°F (23.9 °C), 45%RH, is the standard rating condition for ASHRAE 127-2007. All capacities are nominal values; actual performance will be ± 5%."

Microprocessor control system.
The microprocessor control system, with its user-friendly wall-mount display, provides precise temperature and accurate alarm setpoints. Using touch-sensitive buttons, the monitor/control panel allows you to select and display time, temperature, humidity, alarm indication and other parameters.

Standard 60Hz units are CSA certified to the harmonized U.S. and Canadian product safety standard, CSA C22.2 No 236/UL 1995 for "Heating and Cooling Equipment" and are marked with the CSA c-us logo.

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