Liebert MCR Mini Computer Room

Liebert Foundation MCR is featured in this Scenario: **Scenario B 1-2 Racks Single Phase page 10**

The Liebert Foundation MCR is a self-contained rack enclosure system that includes a load-sized, precision cooling unit located at the bottom of the enclosure, with the option of a top mount design, supplying cool air to sensitive equipment on all levels. A back-up cooling system ensures environmental security. Power can be supplied and protected through an optional Liebert GXT online UPS or Liebert PowerSure PSI line interactive UPS.

Features & Benefits

Flexibility:	Higher Availability:	Lowest Total Cost Of Ownership:
▪ Designed as a plug-and-play system ready to install. ▪ Wheel-mounted cabinet for easy relocation. ▪ Adjustable racks and rack rails support a wide variety of equipment. ▪ Optional top mounted precision cooling allows maximum use of internal rack space or can be used to double cooling capacity with the internal precision cooling unit.	▪ Cools IT equipment to eliminate downtime from overheating. ▪ Lockable door protects against unauthorized access. ▪ Specially designed door gasket and sealed cable entrance ensure stable cooling environment. ▪ Back-up cooling assures continued cooling in the event of a power loss. ▪ Improved cable access and management improves airflow to reduce overheating of protected IT equipment.	▪ Competitively priced as an integrated system, compared to purchasing separate components. ▪ Simplified plug-and-play installation reduces overall implementation time, reducing costs. ▪ Optional energy saver control saves money by allowing back-up cooling to operate as primary enclosure cooler. ▪ Integrated precision cooling reduces potential downtime costs by assuring proper system operation.

Frequently Asked Questions

Question	Resolution
Can't I just buy a cabinet and put in an air conditioner?	The Liebert Foundation MCR provides a complete solution. There is no need to purchase and install separate add-on components. The Liebert Foundation MCR is a self-contained system ready to go right from the start with components that are specifically designed to work together.
What if we decide to move our offices?	The Liebert Foundation MCR is mounted on wheels so it is easy to install and relocate. Just position the unit and hook it up for installation. It's just as easy to relocate as needs or room layouts change.
What if we don't have a special room for our computer system?	The Liebert Foundation MCR accommodates spaces not designed for cooling. It fits through standard-sized doorways and is air-cooled so it can operate without access to chilled water.
Isn't it going to get really hot inside that cabinet?	The Liebert Foundation MCR includes computer-grade high availability precision cooling plus a backup cooling module that removes heat in the event of a power outage.

Competitive Comparison

Feature	Liebert Foundation MCR	APC High-Density Cooling Enclosure (HDCE)	Rittal LCP	Sanmina Ecobay	The Liebert Advantage
Complete, self-contained unit	Includes rack, cooling, monitoring and control.	Includes rack, coil fan only, no active cooling (i.e. compressor is outside the rack).	Includes rack, coil fan only, no active cooling (i.e. compressor is outside the rack).	Includes rack, coil fan only, no active cooling (i.e. compressor is outside the rack).	The self-contained Liebert unit provides plug-and-play installation with no on-site assembly or mechanical connections required.
Cooling method	Self-contained air cooled.	Chilled water cooling.	Chilled water cooling.	Chilled water cooling.	The self-contained cooling system does not introduce water piping into the room or in the rack with equipment. Features low-noise operation, suitable for use in occupied spaces.
Backup ventilation capability	Backup cooling module provides cooling during a loss of utility power or high internal temperature conditions.	No backup ventilation.	No backup ventilation.	Spring-loaded door opens for backup ventilation.	Backup cooling module of the Liebert Foundation MCR ensures cooling in emergency conditions for higher availability without the use of spring-loaded doors that require additional space clearances and may conflict with safety codes or practices.
Fits through standard sized doorways	23.5" W x 37.5" D x 77" H	39" W x 48" D x 90" H	36" W x 40" D x 80" H	26" W x 46" D x 86" H	Liebert Foundation MCR is designed to fit through standard-sized doorways.
Fan location	Located at the bottom.	Side of cabinet.	Side of cabinet.	In rear door of cabinet.	Liebert Foundation MCR provides its air circulation/cooling function even when the rear door is open for service access.
Airflow type	Rear of unit.	Side of unit.	Side of unit.	Located in rear door.	The air flow pattern in the Liebert Foundation MCR provides a more uniform air circulation throughout the cabinet to prevent hot spots within the enclosure.

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Specifications

ENCLOSURE DIMENSIONS

Model	Overall Frame Dimensions			Rack		Adjustable Rack Depth		Internal Rack Height	
	Height*	Width**	Depth***	Width	Available Width	B****			
	In. (mm)			In. (mm)	In. (mm)	Max In.(mm)	Min In.(mm)	RACK U	In. (mm)
HD_780	77 (1956)	23.5 (597)	30 (762)	19 (483)	17.8 (450)	22.5 (571.5)	18.5 (470)	42	73.5 (1867)
HD_788	77 (1956)	23.5 (597)	38 (965)	19 (483)	17.8 (450)	30.5 (775)	26.5 (673)	42	73.5 (1867)
RD_780	77 (1956)	27.5 (699)	30 (762)	23 (584)	22.8 (580)	22.5 (571.5)	18.5 (470)	42	73.5 (1867)
RD_788	77 (1956)	27.5 (699)	38 (965)	23 (584)	22.8 (580)	30.5 (775)	26.5 (673)	42	73.5 (1867)

* Casters add 1.5" to overall height of frame = 2000mm.
** Side panels add 0.75" each to overall width of frame.
*** Doors add 0.1" each to overall depth of frame, BCM option adds an additional 3.00" to overall depth of frame.
**** Max dimension is for ex-factory configuration. Rails can be inverted to provide an additional 4.00" of adjustment.
***** EX Expansion system option available in 3 sizes, increases front and/or rear depth (nominal / actual): 2" / 2"; 4" / 3.85"; 6" / 5.5."

ECM (Environmental Cooling Module) PERFORMANCE DATA

	Rated Capacity	Supported Load		Height	Width	Depth	Total Heat Rej.	Input Power (1PH)						Sound
Model Number	BTUH (Watts)	BTUH (Watts)	Max Ambient	In (mm) - U	In (mm)	In (mm)	BTUH (Watts)	Volts	Hertz	FLA	WSA	OPD	Plug	Lpa (1.5 m)
ECM1000L*-C60	5315 (1557)	2811 (824)	105°F / 41°C	12.25 (311)-7	17.43 (443)	29 (737)	7146 (2094)	120	60	7.3	8.6	15	NEMA 5-15P	52
ECM2000L*-C60	6897 (2021)	5621 (1647)	105°F / 41°C	12.25 (311)-7	17.43 (443)	29 (737)	10935 (3204)	120	60	9.8	11.7	15	NEMA5-15P	52

"* T (top mount) and R (rack mount). Top mount weight does not include interface plenum. The interface plenum for a 19"" rack x 30 "" deep cabinet is 38 lbs."
Sound data based on sound pressure A- weighted scale for free field spherical radiation at 1.5 meters from cabinet.
Sound data reflects only rack mount design. Consult factory for top mount data.

BCM (Back-Up Cooling Module) PERFORMANCE DATA

	Rated Capacity	Supported Load		Height	Width	Depth	Weight	Total Heat Rej.	Input Power (1PH)					Sound
Model Number	BTUH (Watts)	BTUH (Watts)	Max Ambient	In (mm) - U	In (mm)	In (mm)	lbs (kg)	BTUH (Watts)	Volts	Hertz	FLA	WSA	OPD	Lpa (1.5 m)
BCM 1000L-60	N/A	2811 (824)	105°F / 41°C	35.0 (889)	15.5 (393.7)	3.75 (95.2)	47 (21.3)	3038 (890)	120	60	1.0	1.3	15	57
BCM 2000L-60	N/A	2811 (824)	105°F / 41°C	35.0 (889)	15.5 (393.7)	3.75 (95.2)	47 (21.3)	3038 (890)	120	60	2.0	2.5	15	59

Above BCM weight includes rear door weight of 17 Lbs.
Sound data based on sound pressure A- weighted scale for free field spherical radiation at 1.5 meters from cabinet.

Liebert MCR Mini Computer Room Related Products

Liebert OpenComms EM and Liebert OpenComms vEM-14 Controllers
Liebert OpenComms EM controllers are network-enabled devices for monitoring temperature, humidity and contact closures inside critical environments, including racks and small computer rooms.

Liebert PowerSure PSI
The most price competitive UPS in its class with a factory-installed Liebert IntelliSlot web card for network communications. Available in 1000, 1440, 1920, 2200 and 3000 VA ratings.

Liebert GXT
A fault-tolerant, network-enabled UPS capable of delivering data center quality power protection to racks and small rooms. Available in 500, 700, 1000, 1500, 2000, 3000, 6000, and 10,000 VA.

Liebert MicroPOD™
Maintenance bypass switch that permits scheduled maintenance or UPS replacement without discontinuing power to critical equipment.

Liebert Nform
A simple to use monitoring and communications software solution that combines network monitoring of power and cooling equipment.

Liebert MultiLink™ Shutdown Software
Monitors UPS battery status and warns users of impending power loss and automatically shuts down systems in a safe and orderly manner.

Liebert MP Advanced Power Strips
“Smart” power strips allowing customers to monitor and control equipment at the receptacle level.