

■ Precision Cooling
For *Business-Critical Continuity™*

Liebert® MC™ Microchannel Coil Condenser

High Efficiency, Quiet Operation Air Cooled Condenser



The Liebert® MC™ Microchannel Coil Condenser Efficient, Quiet Air Cooled Condenser

As IT budgets constrict, data center managers require new, higher levels of energy efficiency to provide the innovations and technologies that today's critical business needs demand.

The Liebert MC Condenser from Emerson Network Power is an air-cooled condenser designed to deliver energy efficiency. With an exclusive microchannel coil design, this condenser offers a highly efficient, system-matched heat rejection solution that reduces energy costs and operational expenses.

The Liebert MC Condenser:

- Improves unit and system efficiency at full and partial loads
- Increases condenser full load energy efficiency by 30-50%
- Reduces refrigerant volumes and decreases refrigerant charge levels in matched condensers – by more than 50% on non-Lee-temp systems and more than 20% on Lee-temp systems
- Is compatible with Copeland® Digital Scroll™ Technology compressors

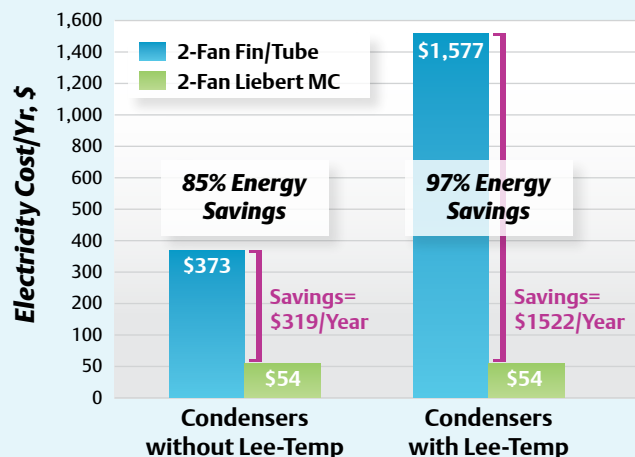
Lowest Total Cost of Ownership:

- EC Fan reduces annual condenser energy requirements 50-95% over traditional condensers
- Liebert MC condenser reduces annual energy requirements of Computer Room Air Conditioning (CRAC) systems by 5-10% (15-25% for Lee-Temp systems)
- Reduced refrigerant requirements - lower installation cost
- Microchannel coil provides enhanced energy efficiency and 20-50% lighter installed weight

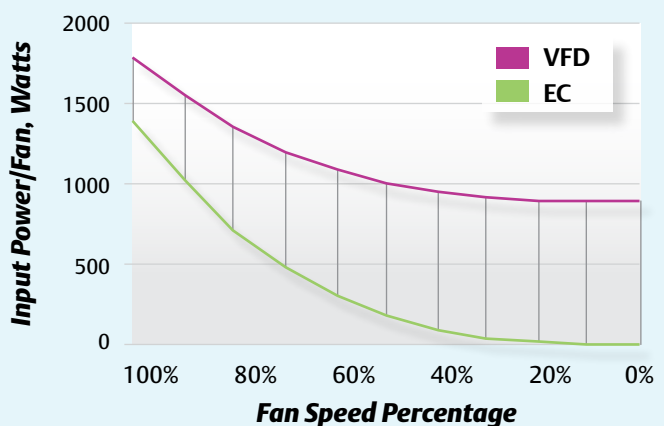
Ideally Suited For Use With:

- Liebert CRV™
- Liebert Challenger 3000™
- Liebert DS™
- Liebert DSE™, consult your local representative

Liebert MC Condenser Energy Savings – Reduced Operating Expenses



Liebert MC condenser operates with higher efficiency than fin and tube condensers, with an annual savings of up to 85%. The savings are even greater when the Lee-Temp winter operation option is applied.



The EC Fans in the Liebert MC condenser operate at greater efficiency than the variable speed VFD and fixed speed motors. The chart above shows the watt savings at multiple indoor load levels to produce fan speed variation. Two fan condenser at 60°F ambient temperature.

Two-Fan Microchannel Coil Condenser

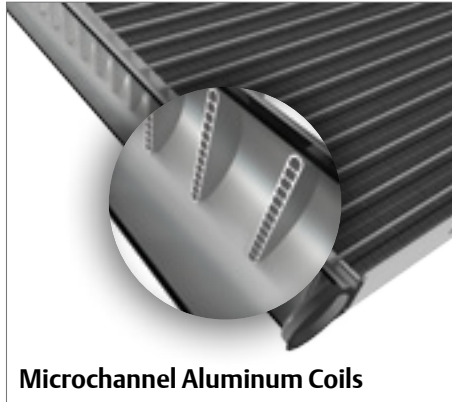


Flexibility:

- Multiple voltage and refrigerant configurations available to match heat removal needs
- 2.5 -5.5 dBA lower sound level than alternative condensers, allowing installation in regulated environments
- Condenser is compatible with R-410A, R-407C and R-22 refrigerants

Higher Availability:

- Liebert® iCOM™ to condenser communications improve condenser control, and offer enhanced monitoring capability both at the Liebert iCOM local display and at a BMS interface
- Highly reliable and efficient fan motor and controls
- Helps systems meet government energy efficiency standards, seismic and wind load regulations to IBC2007, and OSHPD compliance



Microchannel Aluminum Coils

The Liebert MC™ Condenser leverages cutting-edge technologies such as a microchannel coil and EC fans, to deliver unmatched levels of operational efficiency.



Liebert MC is compatible with indoor cooling units equipped with Copeland® Digital Scroll™ Technology compressors and Liebert iCOM controls, allowing variable speed operation for cooling efficiency and reduced operating costs.

Reduced refrigerant requirements, Reduced sound levels

95°F Match-ups										
Liebert MC model	Refrigerant type	# of Fans	Liebert MC Ref, LB	Fin/Tube Ref, LB	% Ref Red'n	Liebert MC Sound Pressure dBA	Fin/Tube Sound Pressure dBA	Sound Red'n, dBA	Liebert Indoor Cooling Unit	
MCS028	R-407C	1	2.2	5	56%	69.5	72.5	3.0	BU042A	
		1	2.2	8	73%	69.5	72.5	3.0	BU067A	
MCM028	R-410A	1	2.2	7	69%	69.5	72.5	3.0	CRV020	
MCM040		1	3.5	16	78%	70.0	75.5	5.5	CRV035	
MCM080	R-407C	2	6	14	57%	73.0	75.5	2.5	DS028A	
MCM080		2	6	14	57%	73.0	75.5	2.5	DS035A	
MCM080		2	6	14	57%	73.0	75.5	2.5	DS042A	

Standard (Non-Lee-Temp)

Reduced refrigerant requirements result in lower installation costs

Liebert MC has a consistently lower sound level at all indoor/outdoor conditions. The fin and tube condenser has a larger variance and higher sound levels under similar indoor/outdoor conditions. Measured at 1 meter.

Compatible with Liebert systems operating with Digital Scroll compressors

Liebert® MC™ Condenser – Technical Specifications

Liebert MC model	MCS028	MCS028	MCM028	MCM040	MCM080	MCM080	MCM080
Refrigerant type	R-407C		R-410A		R-407C		
# of Fans	1	1	1	1	2	2	2
Liebert MC Ref, LB	2.2	2.2	2.2	3.5	6	6	6
Liebert MC Sound Pressure dBA	69.5	69.5	69.5	70.0	73.0	73.0	73.0
Weight LB	229	229	229	244	473	473	473
Liebert Indoor Cooling Unit	BU042A	BU067A	CRV020	CRV035	DS028A	DS035A	DS042A

Note: 95°F Match-ups, Standard (Non-Lee-Temp).

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