VERTIV. | PRASA

Liebert®

MC™ Microchannel Coil Condenser

High Efficiency, Quiet Operation Air Cooled Condenser

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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 Vertiv™ 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 condensers without flooded receiver systems and more than 20% on condensers equipped with flooded receiver systems
- Is compatible with Copeland® Digital Scroll™ Technology compressors

Lowest Total Cost of Ownership:

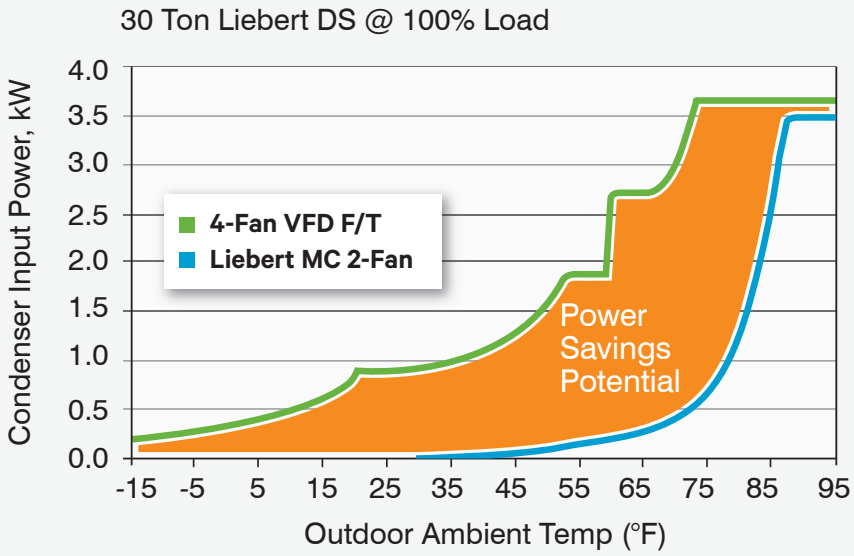
- Electrically Commutated (EC) Fans reduce annual condenser energy requirements 50-95% over traditional condensers
- Liebert MC condenser reduces annual energy requirements of Computer Room Air Conditioning (CRAC) systems by 5-10% (15-25% for flooded receiver systems)
- Reduced refrigerant requirements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

EFFICIENT, QUIET AIR COOLED CONDENSER

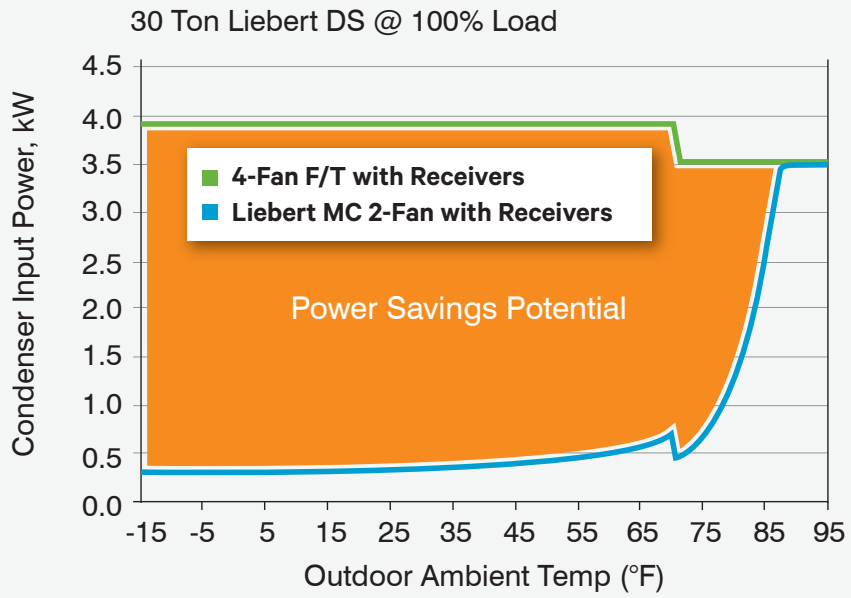
Liebert MC Condenser Energy Savings – Reduced Operating Expenses

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 flooded receiver system winter operation option is applied.

Standard Ambient Systems



Low Ambient Systems (Flooded Receiver)



Flexibility:

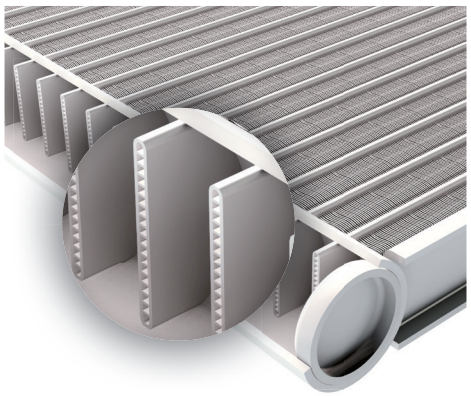
- Multiple voltage configurations available to match electrical needs
- 2.5 - 5.5 dBA lower sound level than alternative condensers, allowing installation in regulated environments
- Condenser is compatible with R-410A and R-407C refrigerants
- Quietline mode of operation - automatically controlled by the Liebert® iCOM™ indoor unit to operate fans at reduced speeds resulting in reduced sound levels

Higher Availability:

- Liebert® iCOM from indoor cooling system 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
- Industry's largest factory-trained service organization provides scheduled maintenance, 24 x 7 support, local parts, and an average 4 hour response time for service

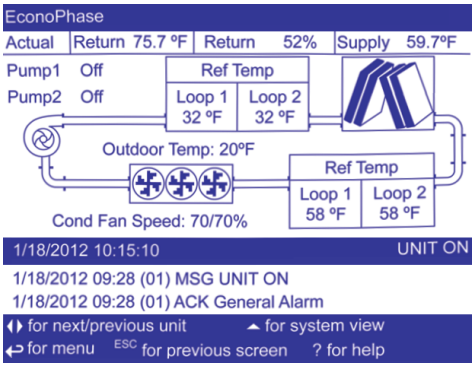
Ideally Suited For Use With:

- Liebert CRV™
- Liebert Challenger™ 3000
- Liebert DS™
- Liebert DSE™



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.

One-Fan Microchannel Coil Condenser

Two-Fan Microchannel Coil Condenser

Four-Fan Microchannel Coil Condenser

Liebert® MC™ Condenser – Technical Specifications

LIEBERT MC MODEL	REFRIGERANT TYPE	# OF FANS	REFRIGERANT CHARGE, LB	LIEBERT MC SOUND PRESSURE, DBA	WEIGHT, LB
MCS028	R-407C or R-410A	1	2.5	60	154
MCS056		2	5	63	288
MCM040		1	3.5	65	231
MCM080		2	8.5	68	441
MCM160		4	17	71	860
MCL055		1	5	68	344
MCL110		2	10	71	602
MCL165		3	Liebert DSE Only	73	891
MCL220		4	25	74	1186

Note: Standard (Non flooded receiver systems), Sound @ 10'

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