



# Liebert®

MC™ Microchannel Coil Condenser

High Efficiency, Quiet Operation 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 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

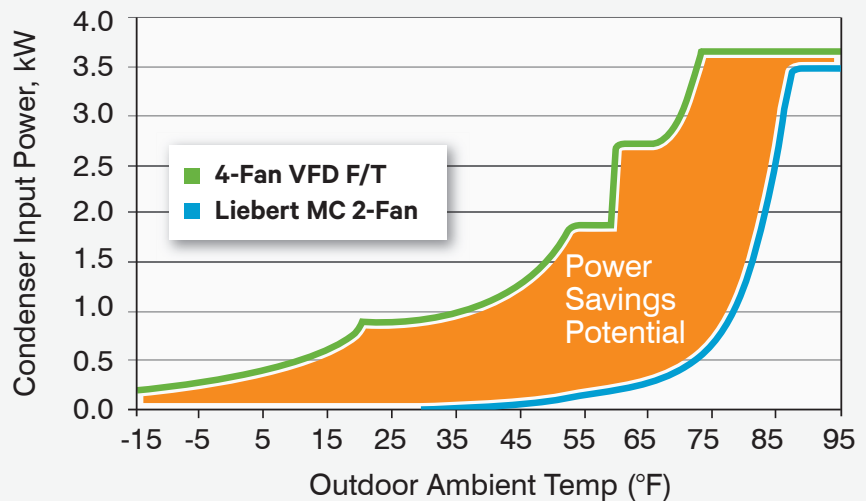
## EFFICIENT, QUIET AIR COOLED CONDENSER

### 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.

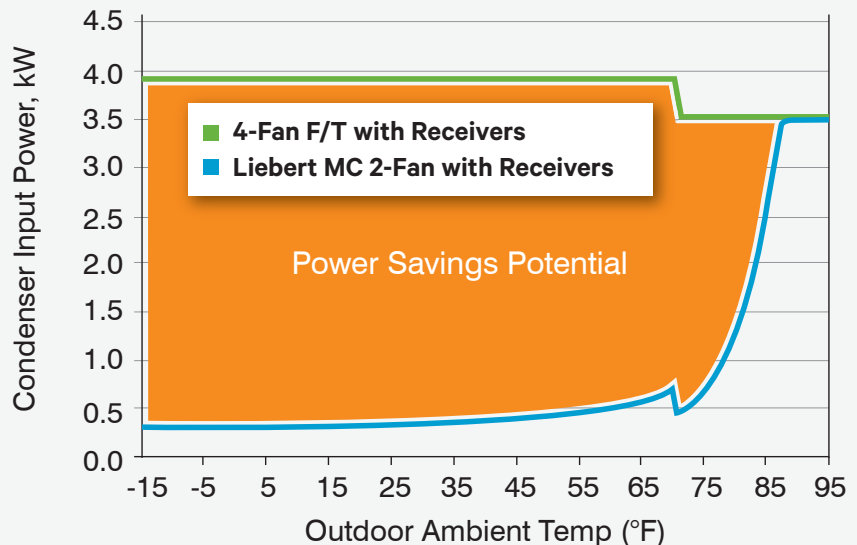
#### Standard Ambient Systems

30 Ton Liebert DS @ 100% Load



#### Low Ambient Systems (Flooded Receiver)

30 Ton Liebert DS @ 100% Load

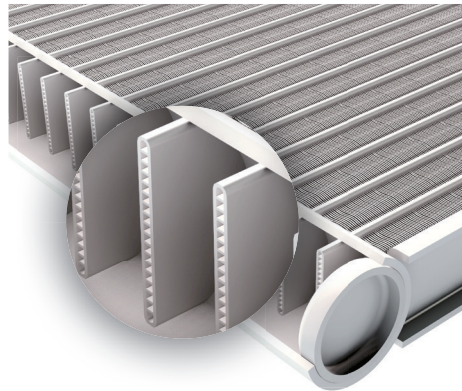


## Flexibility:

- 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

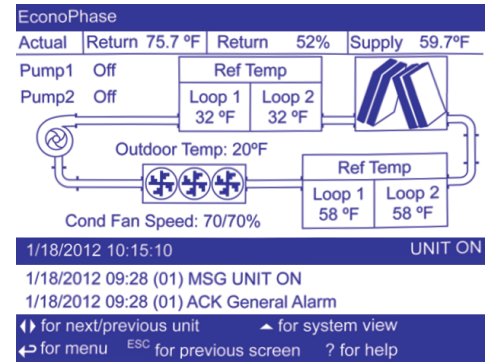
## Higher Availability:

- 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



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'

## Ideally Suited For Use With:

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



**Prasa Infocom & Power Solutions Pvt. Ltd.**

+91 8806660084 | [www.prasa-pl.com](http://www.prasa-pl.com) | [enquiry@prasa-pl.com](mailto:enquiry@prasa-pl.com)

**VertivCo.com** | Vertiv Headquarters, 1050 Dearborn Drive, Columbus, OH, 43085, USA

© 2016 Vertiv Co. All rights reserved. Vertiv and the Vertiv logo are trademarks or registered trademarks of Vertiv Co. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness herein, Vertiv Co. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.