

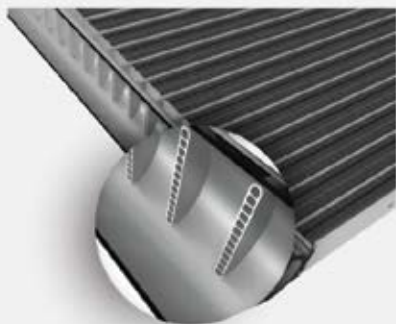
Vertiv™ CoolPhase Condenser

Standard and V-Shaped Condenser Range, R-454B



Benefits

- **Reduce operating costs** and improves unit and system efficiency at full and partial loads with EC fans that reduce annual condenser energy requirements 50-95% over traditional condensers
- **Reduce carbon footprint** with low GWP refrigerant, utilizing R-454B that meets environmental standards
- **Increased energy efficiency** of condenser at full load 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
- **Rapidly scalable** for faster deployments and time to market for mission-critical applications



Microchannel Aluminum Coils



MC040 One-Fan Microchannel Coil Condenser



MC220 Four-Fan Microchannel Coil Condenser

The Vertiv™ CoolPhase Condenser is an air-cooled condenser designed to deliver energy efficiency.

With a microchannel coil design, this condenser offers a highly efficient, system-matched heat rejection solution that reduces energy costs and operational expenses.

Higher availability

- Vertiv™ Liebert® iCOM™ from indoor cooling system to condenser communications improve condenser control, and over enhanced monitoring capability both at the Vertiv 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



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-454B refrigerants
- Quietline mode of operation - automatically controlled by the Vertiv™ Liebert® iCOM™ indoor unit to operate fans at reduced speeds resulting in reduced sound levels

Technical specifications

Physical Data	MCS028	MCS056	MCM040	MCM080	MCM160	MCL055	MCL110	MCL165	MCL220	MCV330	MCV430	MCV440
Refrigerant Type	R454B											
# of Fans	1	2	1	2	4	1	2	3	4	6	6	8
Refrigerant Charge, lbs	2.5	5	3.5	8.5	17	5	10	Vertiv™ EconoPhase Only	25	46.8	55.8	55.8
Sound Pressure, dBA	60	63	65	68	71	68	71	73	74			
Weight, lbs	154	288	231	441	860	344	602	891	1186	4,980	6,170	5,780

Condenser compatibility matrix

Indoor Unit	MCS028	MCS056	MCM040	MCM080	MCM160	MCL055	MCL110	MCL165	MCL220	MCV330	MCV430	MCV440
PX011	x		x			x						
PX018	x		x			x						
PX023			x	x		x						
PX029			x	x		x						
DS035		x		x	x		x					
DS042		x		x	x		x					
DS053		x		x	x		x		x			
DS070				x	x		x		x			
DS077				x	x		x		x			
DS105					x		x		x			
DA050				x			x	x				
DA080					x				x			
DA085					x							
DA125								x	x			
DA150								x	x			
DA165								x	x			
DA250										x	x	x
DA265										x	x	x

* For more detailed condenser pairings for specific models listed above, please consult the product User Manual.

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