

OMC

Oil Management Control

The OMC is available in multiple voltages for various refrigerants, and maintains a proper oil level in the compressor crankcase. It is ideal for use with Copeland Scroll™ compressors and all brands of semi-hermetic compressors.



Compressor Protection

Prevents Compressor burnout and system downtime
Compressor lockout feature alerts repeated low oil for early system diagnosis and resolution



Simple Installation

Adapters available for various compressor types



Easy Monitoring

Optional Side Sight Glass provides oil level viewing from multiple directions
Oil level float ball in sight glass allows quick visual indication
Visual alarm and status lights



Reliable Performance

System debris retention magnet for reliable operation
Hall-effect sensing technology unlike optical sensors, eliminates false detection of possible oil foaming



Cost Savings

Multiple voltage ratings eliminate need for stepdown transformer



Code Compliance

Self-contained electrical enclosure with conduit connections for field service wiring



LED Display

Power - Green
Fill - Yellow
Alarm (low oil) - Red



Competitive Comparison Chart

Features	Emerson OMC	Brand A	Brand B
Voltages	*24V 50/60Hz (OMB) 120V 50/60Hz 220-240V 50/60Hz	24V 50/60Hz 115V 50/60Hz 230V 50/60Hz	24V 60Hz (Requires Step-Down Transformer For Higher Voltage)
Sight Glass	Forward & Side Option	Side Only	Forward Only
Solenoid Port (Flow)	0.062"	0.059"	0.05"
Five Time Alarm Lockout Feature	Yes	No	No
Specified by Copeland on Scroll Compressors	Yes	No	No
U.S. Patents	Yes	No	Yes

*See OMB for 24V offering

Ordering Information

Description	Standard		Transcritical CO2		Ammonia	
	Item Number	Model Number	Item Number	Model Number	Item Number	Model Number
24V 50/60 Hz, Dual Sight Glass			1815412	OMC D24CO2S	066992	OMC D24NH3
120V 50/60 Hz, Dual Sight Glass	096806	OMC D120S	1815404	OMC D120CO2S	066938	OMC D120NH3
220-240V 50/60 Hz, Dual Sight Glass	096807	OMC D240S	1808095	OMC D240CO2S	066939	OMC D240NH3

Models also available without strainer and with a single sight glass upon request

Specifications

	OMC	OMC NH3	OMC CO2
Maximum Working Pressure (MWP)	870 psig		1885 psig
Solenoid min/max OPD	0/350 psig		0/1450 psig
Supply Voltage	120V or 220-240V, 50/60 Hz	24V, 120V OR 220-240V, 50/60 Hz	
Solenoid Coil	EMF		
Current Consumption	0.15 Amp (120V) 0.07 Amp (220-240V)		0.6 Amp (24V) 0.15 Amp (120V) 0.07 Amp (220-240V)
Time Delay for Low Level Signal	10 seconds		
Time Delay After Setpoint Recovery	5 seconds		
Alarm Delay Time (Including Alarm Contact)	120 seconds		
Alarm Switch	SPDT		
Alarm Contact Rating	10A @ 120VAC 50/60 Hz, 5A @ 250VAC 50/60 Hz, 3A @ 30VDC		
Refrigerant Compatibility	Class A1 (incl. subcritical CO2)	Ammonia	Transcritical CO2
Refrigerant Temperature	-40° to 180°F Maximum		
Ambient Temperature - Storage	-40° to 120°F Maximum		
Ambient Temperature - Intermittent	-40° to 120°F Maximum		
Oil Supply Fitting	1/4" Male SAE		
	(Brass)	(Stainless Steel)	(Brass)

R-5059 (3/20) Replaces 2016WR-47 (10/17)

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