

EMERSON CLIMATE TECHNOLOGIES-Oil Controls AOF High Efficiency Oil Filter

Highly Recommended for Scroll Compressors

The AOF is designed to protect the compressor from dirt and all solid contaminants including metallic magnetic particles. It is ideal for use with compressors that require a 4 micron or higher filtration rating.



Features

- Corrosion resistant epoxy powder paint finish
- 3/8" SAE connections for easy installation in oil lines
- 100% efficient to 4 micron particles; 99% efficient to 3 micron particles
- Compatible with all oils
- High debris capacity with low pressure drop

Specifications

- Maximum working pressure: 680 psig
- UL/CUL file number: SA 3124

Ordering Information

PCN	Lay-in	Diameter	Description
064952	9.63	3.06	AOF 303

EMERSON CLIMATE TECHNOLOGIES-Oil Controls AOF High Efficiency Take-Apart Oil Filter

The AOF is designed to protect the compressor from dirt and all solid contaminants including metallic magnetic particles. It is ideal for burnout/clean-up situations.



Features

- Compatible with all oils
- Solid copper connections
- Quick change filter cartridge
- Corrosion resistant epoxy powder paint finish
- 100% efficient to 4 micron particles; 99% efficient to 3 micron particles
- 3/8 ODF connections
- Quick removal cover design simplifies filter replacement
- High debris capacity with low pressure drop

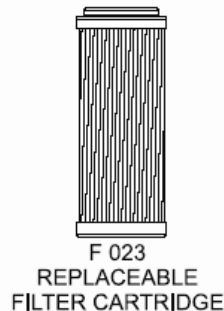
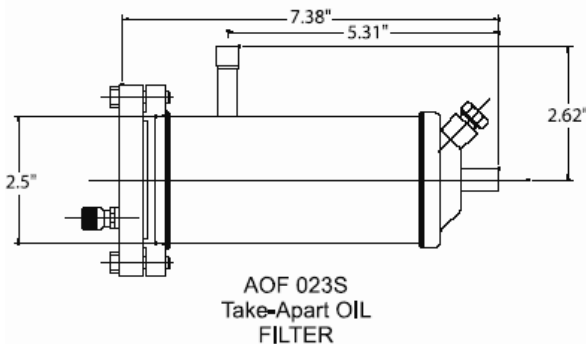
Specifications

- Maximum working pressure: 500 psig
- UL/CUL file number: SA 7175

Ordering Information

PCN	Description
062784	AOF 023S*
064799	FO23 Cartridge

*Cartridge not included



EMERSON CLIMATE TECHNOLOGIES-Oil Controls AOFD 553 Oil Filter Drier

The AOFD is designed specifically for refrigerant systems that use POE oil. POE oil is hygroscopic in nature, which means that it attracts and absorbs water. Moisture in a closed system can produce acid and will harm the compressor. The AOFD protects compressors by removing moisture and trapping contaminants.



Features

- Designed to clean and dry POE Oil
- 3/8" male flare connections for easy replacement
- Large filter surface area to provide maximum filtration
- Contains desiccant for moisture removal
- Designed to operate at a very low pressure drop
- 10 micron filtration for optimum oil cleaning
- Dual access valves for pressure drop monitoring

Specifications

- UL/CUL file number: SA3124

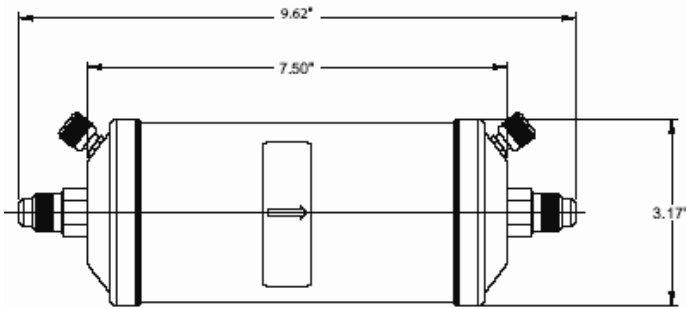
AOFD Water Capacity Table

Refrigerant Type	Drops @ 125° F
R-22	497
R-134A	518
R-404A	518
R-407C	435

Ordering Information

PCN	Description
062829	AOFD 553 Oil Filter Drier

Dimensional Data



EMERSON CLIMATE TECHNOLOGIES-Oil Controls OMB

The OMB is a compressor crankcase oil level protective control ideal for use with Copeland Scroll® models ZF, ZB, ZR and ZS. It is also recommended for Copeland® brand products, Carlyle, Bitzer, and other semi-hermetic compressors.

Features

- Precision oil level measurement for maximum protection
- Easy monitoring with alarm and status lights
- Foam resistant design prevents nuisance trips unlike optical sensor designs
- Contaminant proof operation ensures accurate control
- Only approved oil level control for Copeland Scroll® Compressors
- 5-time lockout feature protects compressor from repeated low oil level condition

Nomenclature example: OMB-JB1 ASC2 24 50/60

OMB	JB1	ASC2 24 50/60
Oil Management Control	JB1 - Junction Box MO1 - Series Relief Connector	Solenoid Coil Model Number, Voltage, Frequency (included)

Ordering Information

Oil Management Control

PCN	Description
065365	OMB-JB1 ASC 2 24/50-60 - STD
065366	OMB-MO1 ASC 2 24/50-60 - STD

Adapters

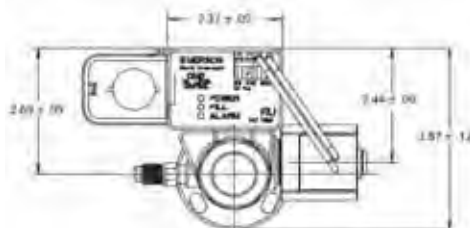
(to attach OMB to Copeland Scroll® compressor for new installation only)

PCN	Description
065668	OMB-ACA ADAPTER (3/4" x 14 NPTF) Copeland® Glacier, ZF, ZS, ZB
065667	OMB-ACB ADAPTER (1 1/8" x 12 UNF) Copeland® A/C ZR
066077	OMB-ACD ADAPTER (1 1/4" x 12 UNF) Copeland® A/C Summit Series
066078	OMB-ACE ADAPTER (1 3/4" x 12 UNF) Copeland® Specter Series
-	OMB-AUA ADAPTER Copeland® 6D semi-hermetic

Service Parts

PCN	Description
048638	Inlet Flare Screen
020877	Sight Glass O-Ring
064812	Mounting O-Rings (3 pieces)
049191	KS-30112 Solenoid Repair Kit

Dimensional Data



Unit must be mounted horizontally for correct operation.



Specifications

- Maximum working pressure: 640 psi
- Solenoid MOPD: 350 psi
- Supply voltage: 24 V AC, 50/60 Hz
- Solenoid coil: ASC 2L 24 V AC, 50/60 Hz
- Current consumption: 0.6A
- Time delay for low level signalling: 5-10 seconds
- Time delay for after setpoint recovery: 5-10 seconds
- Alarm delay time: 120 seconds
- Alarm switch: SPDT
- Alarm contact rating: 10A @ 125; 5A @ 220 V AC 50/60 Hz
- Refrigerant compatibility: HFC, HCFC, CFC
- Oil temperature: 180°F Max.
- Storage and transport temperature: 140°F Max.
- Operating ambient temperature: 120°F Max.
- Oil supply fitting: 1/4" Male SAE
- UL/CUL file number: SA8547
- Transformer VA requirements*: 25"

*NOTE: Field supplied transformer should always be of the same primary voltage as the electrical supply

EMERSON CLIMATE TECHNOLOGIES-Oil Controls W-OLC Mechanical Oil Level Regulator

The W-OLC controls the oil level in the compressor crankcase with a float operated valve and keeps the oil level at the compressor manufacturer's recommended level. It is a direct replacement of popular competitive models.

Specifications

- Maximum working pressure: 450 psi
- UL/CUL file number: SA8547
- Max. OPD: 30 psi

Features

- Corrosion resistant epoxy powder paint finish
- Universal mounting pattern for standard semi hermetic compressors

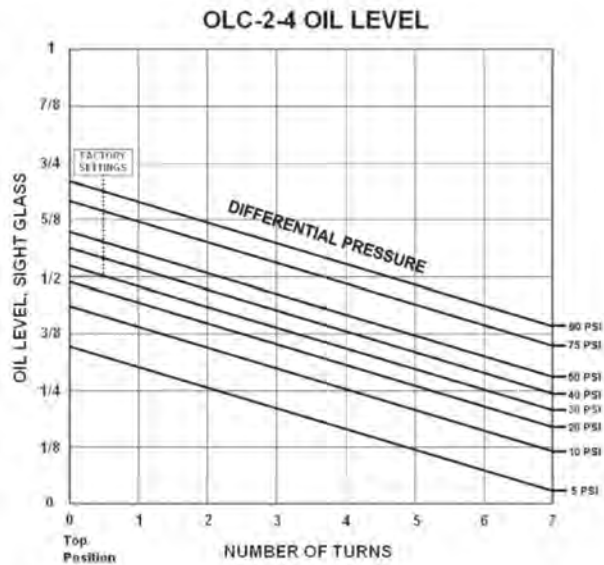
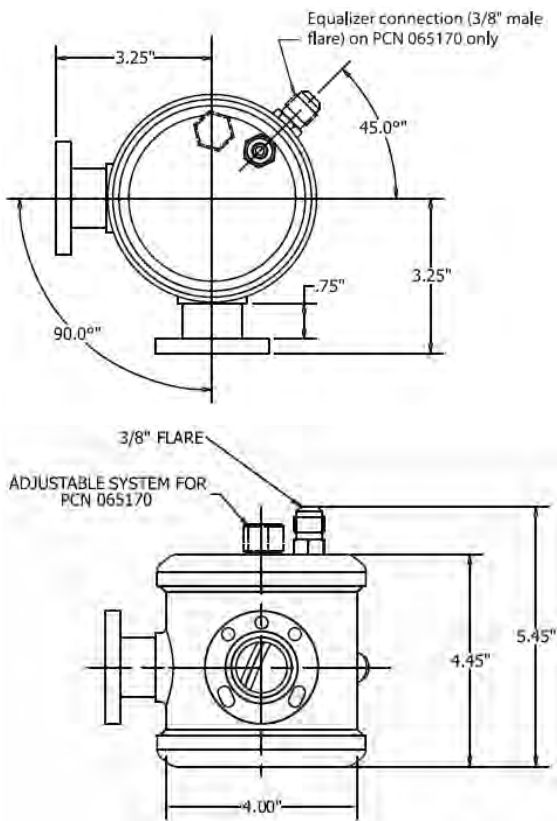
Nomenclature example: W-OLC-2

W-OLC	2
Series	Sight Glass*

* 2 = 1/2, 4 = 1/4, 2 -4 = adjustable

Ordering Information

PCN	Sight Glass Level	Description
064953	1/2 sight glass	W-OLC-2
064954	1/4 sight glass	W-OLC-4
065170	1/4 to 1/2 level (adjustable)	W-OLC-2-4



Note: Data Obtained using POE lubricant of 86⁰F with a 1 inch diameter sight glass

The Oil Level factory setting is in the middle of the Oil Level factory setting is in the middle of the Sight Glass at 30 PSI for the Oil Level Control. Located on the top of the control is the seal cap. Remove this to adjust the oil level. To adjust the stem, turn it clockwise and counterclockwise, respectively, to lower and raise the stem. One can determine the adjustment needed from the OLC-2-4 Oil Level Chart. One eighth of an inch increments are used to illustrate the oil level at a selection of differential pressure conditions.

Unlike our Competitors Controls no damage will occur when attempting to adjust beyond 7 turns. Our Design has a hard Stop to prevent damage.

In the case of an unexpected system defrost or load increase, large amounts of oil will return through the suction line. Consequently, the oil control will not be able to keep the oil level from rising beyond the control point.

See adapters page.

Refrigeration

EMERSON CLIMATE TECHNOLOGIES-Oil Controls Universal Acid Test Kit

The Universal Acid Alert Test Kit provides a reliable indication as to the acid level of the refrigeration oil.

Features

- Quick and easy test kit
- Universal acid test kit for use with all refrigeration lubricants
- By changing the percentage of oil sample taken, the acid number of the oil can be accurately determined
- Phase separation of the chemicals eliminates interference from discolored oil

Ordering Information



PCN	Description
064427	AA Kit Universal

EMERSON CLIMATE TECHNOLOGIES-Temperature Pressure Controls

Quick Select Guide

Application	Feature	Type
Commercial Refrigeration Air Conditioning Controls	Temperature Control, Adjustable Set Point and Differential	TS1
Commercial Refrigeration Air Conditioning Controls	Single Pressure Control, Adjustable Set Point and Differential	PS1
Commercial Refrigeration Air Conditioning Controls	Dual Pressure Control, Adjustable Set Point and Differential	PS2
Commercial Refrigeration Air Conditioning Controls	Differential PressureControl	FD113
Mini-Pressure Controls	Mini-Pressure Control	PSC
Mini-Pressure Controls	Electronic Fan Speed Control	FSX
Industrial Pressure Controls	Industrial Pressure Control, U.L. Approved	FF444

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration