

INSTRUCTION SHEET

Coalescing Oil Separator Filter Replacement

INTRODUCTION

Filter Specifications

Westermeyer Industries' coalescing filter elements are over 99% efficient for a 0.3 micron oil mist and particulate.

Items Needs

To replace a coalescing filter the following items are necessary:

- Evacuation pump
- Wrenches (Cover Plate)
 - COS4 Series 9/16"
 - OS6 Series W-1902 W-1903
 - OS12-31 1-1/8"
 - OS12-41
 - OS14-31 1-5/16"
- Sockets (Filter Cap)
 - COS4-05 7/16"
 - COS4-07
 - OS14-31 3/4"
 - All Others 1/2"
- Refrigerant oil
- Gasket Scraper

INSTALLATION

Preparation

1. Isolate the oil separator from system
2. Evacuate all refrigerant
3. Ensure there is no internal pressure in the separator

Replacement

1. Remove bolts on top cover plate and remove plate
2. Remove 5/16" nut on top of filter
3. 90-016K only: remove filter cap (there will be a pull tab on top if applicable)
4. Remove filter by pulling straight up
5. Install new filter over threaded rod; ensure filter is completely seated
6. 90-016K only: place included filter cap on top of filter with rod passing through it

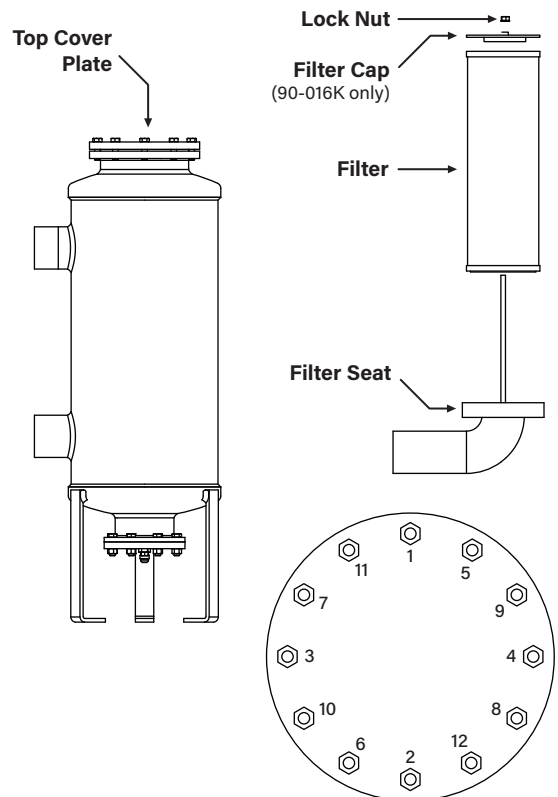
7. Install lock nut on rod; tighten to 1.5 ft·lbs on models with 1/4" rod, 4 ft·lbs on larger models.

Over-tightening can cause damage to the filter. Under-tightening may cause the filter to leak and not function properly.
8. Remove old gasket in top cover plate and replace with supplied gasket; put a small amount of refrigerant oil on surface of gasket
9. Reinstall cover plate and tighten bolts evenly in a criss-cross pattern as shown below. Do not add lubricant to bolts.

3/8"	30 ft·lbs
3/4"	300 ft·lbs
7/8"	500 ft·lbs
10. Evacuate all pressure from the separator
11. Open valves and turn system back on
12. Check for leaks

Accessories

Westermeyer Industries recommends using the **RDP-01 Differential Pressure Monitor** with all coalescing oil separators to indicate when filter replacement is necessary.



CO₂ Coalescing Oil Separator Filter Replacement

INTRODUCTION

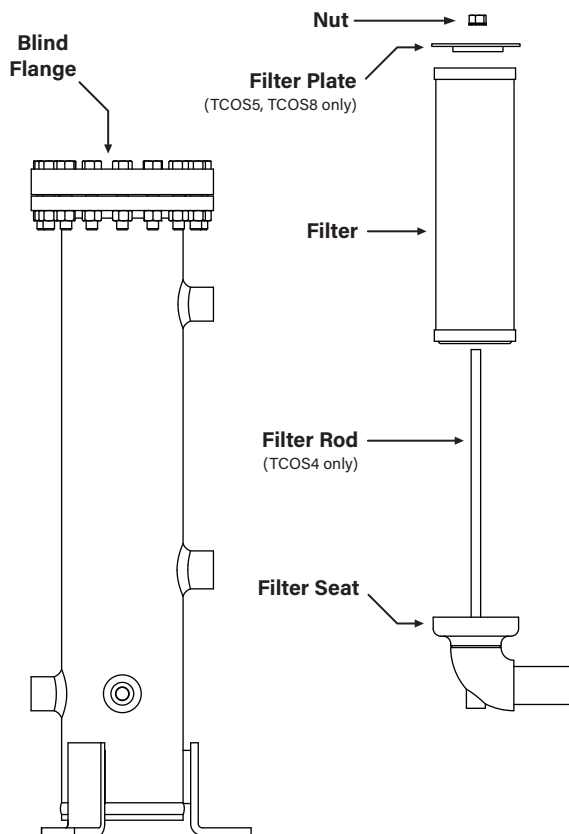
Filter Specifications

Westermeyer Industries' coalescing filter elements are over 99% efficient for a 0.3 micron oil mist and particulate.

Items Needs

- Evacuation pump
- Sockets:

MODEL	FLANGE	FILTER
TCOS4	1/2"	5/16"
TCOS5	1/2"	5/16"
TCOS8	5/8"	5/16"



INSTALLATION

Preparation

1. Isolate the oil separator from system
2. Evacuate all refrigerant from separator
3. Ensure there is no internal pressure on separator

Replacement

1. Unbolt and remove blind flange and gasket
2. Remove nut(s) on top of filter (or filter plate TCOS5, TCOS8 only)
3. (TCOS5, TCOS8 only) Remove filter plate
4. Remove filter by pulling straight out through flange
5. Inspect new gasket and filter seal for any debris; clean if necessary
6. Install new filter on filter seat, gasket side down; ensure properly seated against filter seat
7. (TCOS5, TCOS 8 only) reinstall filter plate
8. Reinstall nut(s); tighten to 40 in-lbs

Overtightening can cause damage to filter and/or filter plate studs
Undertightening may cause filter to bypass and not function properly

Install new flange gasket and reinstall blind flange. Finger tighten bolts, then torque bolts evenly in a star pattern in 15 ft-lb increments until the following torque values are reached.

TCOS4	55 ft-lbs
TCOS5	55 ft-lbs
TCOS8	115 ft-lbs

NOTE: If leaks occur after installation, reapply torque to flange bolts and add up to 10 ft-lbs of additional torque to overcome any relaxation that may have occurred

9. Evacuate all pressure from system
10. Open valves and restart system
11. Check for leaks
12. Discard any additional and old gaskets

OSC Series Coalescing Oil Separator Filter Replacement

INTRODUCTION

Features

Our multi-stage coalescing oil separators are designed for use in screw compressor applications where large amounts of oil removal is required. Included on the oil separators are multiple oil outlets to ensure there is an adequate supply of oil back to the compressors.

All models utilize a multi-stage separation process including a borosilicate glass filter designed to remove small oil particles and system contaminants. These filters are serviced and replaced through a manway cover.

Westermeyer Industries coalescing filter elements are over 99% efficient for a 0.3 micron oil mist and particulate.

FILTER REPLACEMENT

Preparation

1. Isolate the oil separator from the system
2. Evacuate all refrigerant from the oil separator
3. Ensure there is no internal pressure in the separator

Replacement

1. Unbolt and remove manway gasket and cover
2. Remove nut on top of filter(s)
3. Remove filter(s) by pulling straight out through manway
4. Inspect new gasket and filter seat for any debris; clean if necessary
5. Install new filter(s) on filter rod(s); ensure properly seated against filter plate(s)
6. Install lock nut(s) on rod(s); tighten to 4 ft-lbs
Note: overtightening can cause damage to the filter and/or filter rod; under-tightening may cause the filter to leak and not function properly
7. Install new manway gasket and cover; tighten the bolt hand-tight then torque to 100 ft-lbs
8. Evacuate all air from the system
9. Open valves and turn system back on
10. Check for leaks
11. Discard old gaskets and any additional gaskets

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NOTICES

For standard terms and conditions, please visit our website at www.westermeyerind.com

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