INSTRUCTION SHEET

Oil Reservoir
With Integrated Serviceable Filter

Westermeyer Industries Inc.
A COMPANY OF MUELLER INDUSTRIES

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1.1 OVERVIEW

Introduction

The "FL" and "FS" series are oil reservoirs with integrated serviceable oil filters. Typical system designs have an oil filter or strainer between the oil separator and reservoir. This hybrid approach provides the same performance while resulting in fewer leak joints, a more compact layout, and improved system integrity.

Performance & Features

- Working Pressure: 450 psi
- Available in 2, 3, and 4 gallon oil capacities
- Serviceable filter element
- Tapped and slotted flange for ease of assembly and removal
- Filter inlet/outlet available with Rotolock or sweat connections
- Steel construction with a powder paint finish

Filter Specifications

- 4-micron retention
- 99.5% effective at removing 4-micron particles and larger
- 330 square inches of filtering surface area
- Suitable for halocarbon refrigerants and all oil types

1.2 WARNINGS

Improper installation or misuse of this product may cause serious personal injury or damage to equipment and property.

THESE INSTRUCTIONS ARE PREPARED TO ASSIST QUALIFIED PERSONNEL TO SERVICE PRESSURE VESSEL EQUIPMENT. CONSUMERS ARE NOT QUALIFIED TO PERFORM THE INSTALLATION DESCRIBED BELOW.

Nitrogen Charge Warning

Westermeyer Industries pressure tests using nitrogen gas. Some residual pressure could be present in the tank. ***Use caution while removing threaded protectors.***

1.3 INSTALLATION

See diagram for locations of components and connections.

1. Mount the oil reservoir to a sturdy frame (BK-06B mounting bracket available).

2. Lightly oil Teflon gaskets with refrigerant oil before installing Rotolock valves. Front-seat the bottom Rotolock valve to prevent oil from draining out of the reservoir while filling.

3. Precharge the reservoir with the same type of oil that is used in the system. The oil can be added through the vent valve.

   The amount of oil added will depend on the nature of the installation. For new systems, fill to the top sight glass. For existing systems that have not used an oil separator or with an inefficient separator, fill the reservoir to the bottom sight glass.

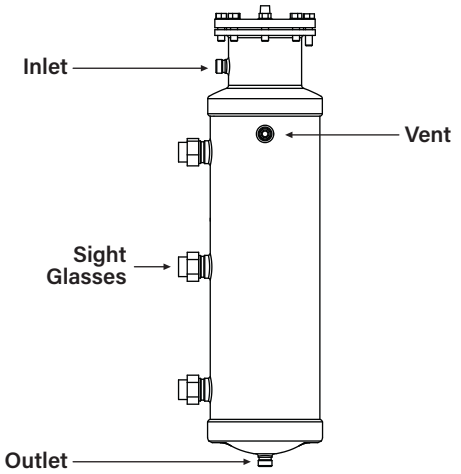
4. Install the 3/8" oil feed line from the oil separator to the inlet valve of the reservoir.

   Install a 3/8" line from the outlet valve to the oil header. The oil header should be sized properly to ensure proper oil feed to each oil regulator without obtaining a pressure drop.

5. Install the reservoir pressure valve and vent line to the reservoir and run line to the suction manifold.

6. Ensure that both the inlet and outlet valves are back-seated prior to running the system to allow oil flow.

7. The oil level in both the reservoir and compressor crankcase should be monitored for a few hours after startup and checked again several times in the first two weeks of operation. Oil may need to be added or drained from the reservoir until a constant oil level is maintained.



2.1 FILTER REPLACEMENT

Items Needed

- Evacuation pump
- Standard set of wrenches
- Refrigerant oil
- Gasket scraper
- Replacement filter & gasket

Preparation

1. Isolate the oil filter/reservoir from the system.
2. Evacuate all refrigerant.
3. Make sure there is no internal pressure in the filter/reservoir before proceeding.

Replacement

1. Remove bolts on top cover plate and remove plate.
2. Remove filter by pulling straight out by lift tab.
3. Wipe away any residual debris inside filter housing.
4. Install new filter. Ensure filter is properly seated.
5. Remove old gasket in top cover plate and replace with supplied gasket. Put a small amount of refrigerant oil on surface of gasket.
6. Ensure spring is properly seated in housing.
7. Begin threading the longest bolt and slide notched part of cover plate underneath it.
8. Reinstall bolts and tighten them evenly in a star pattern. (Cover plate torque: 30 ft-lbs).
9. Evacuate all air from filter/reservoir.
10. Open valves and turn system back on.
11. Check for leaks.

2.2 PARTS & ACCESSORIES

Replacement Parts

- **Filter Kit with Gasket**
  90-007K

  Includes: 90-007 Filter Element
  100-010 Gasket
- **Sightglass Kit with Gasket**
  45-005K

  Includes: 45-005 Sightglass
  100-022 Gasket
- **Valves**
  FL Series 50-002K (3)

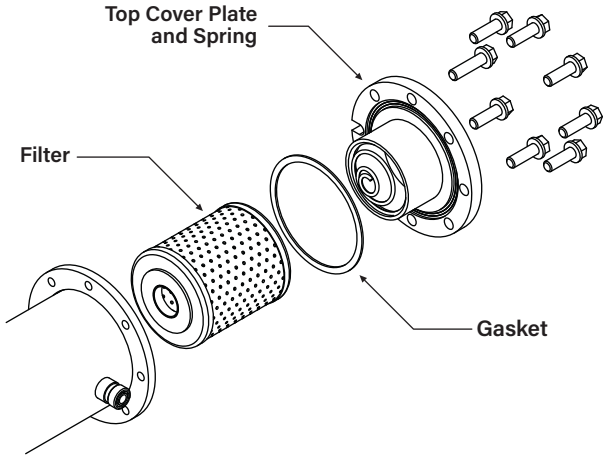
  FS Series 50-002K (1)
  50-013K (2)

Accessories

- **Refri-Shield™ Differential Pressure Monitor**
  RDP-01

  Westermeyer Industries recommends using an RDP-01 Differential Pressure Monitor with all oil filters to indicate when filter replacement is necessary.
- **Vent Valve**
  VV-10, VV-20, VV-30 (Selected based on pressure setting)

  The oil vent valve is used to maintain a positive pressure differential between the oil reservoir and the compressor, ensuring an adequate supply of oil to the oil regulators.
- **Mounting Bracket**
  BK-06B



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NOTICES

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

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Contact Westermeyer Industries for the most current documentation.