INSTRUCTION SHEET

Oil Separator
Installation Instructions

Westermeyer Industries Inc.
A COMPANY OF MUELLER INDUSTRIES

PROPER PIPING PRACTICES MUST BE FOLLOWED IN ALL INSTALLATIONS. THIS INSTRUCTION IS NOT INTENDED TO TEACH PIPING PRACTICES OR BE A SUBSTITUTE FOR THESE PROVEN METHODS.

Preparation

If a float is present, pre-charge the unit with the same oil used in the operating system.

- Oil can be added through the inlet or outlet connections. This should be done prior to brazing.
- The pre-charge amount is needed to activate the float mechanism and will ready it to return oil to the compressor or oil reservoir.

CAUTION: NOT PRE-CHARGING CAN CAUSE FLOAT DAMAGE AND WILL VOID THE FACTORY WARRANTY

Installation

1. Install the oil separator vertically between the compressor and condenser.
    - The separator should be placed reasonably close to the compressor to ensure the refrigerant gas will not condense in low ambient conditions.
    - Use proper piping practices to prevent excessive vibration in the discharge line. If vibration eliminators or mufflers are used, they should be piped before the oil separator.
    - Some models provide a mounting stud. If used, the nut should be torqued to 15 ft-lbs. If the oil separator has mounting legs, ensure the legs are properly attached to the mounting surface by bolting or welding.

    CAUTION: DO NOT SUPPORT THE OIL SEPARATOR BY THE DISCHARGE LINE ONLY. THIS MAY CAUSE FAILURE IN THE BRAZE AND WELD JOINTS
2. Attach the compressor discharge line to the inlet of the oil separator.
3. Attach the outlet of the oil separator to a discharge line check valve and then to the condenser.
    - The check valve will prevent liquid refrigerant migration during off cycles.
4. Connect the oil separator oil return (3/8" male flare connection) to the compressor fill port or suction line if using a single compressor, or the oil reservoir inlet connection if using a low-pressure multiple-compressor system.
    - The use of an in-line sight glass in this line can be helpful in determining that oil is flowing.
5. Silver braze the connections with a standard alloy used to join copper tubing to steel. This is usually a 45% silver brazing alloy. Low temperature tin-lead solders are **NOT ACCEPTABLE.**
    - On oil separators where brazing may take place near a flanged gasket, care must be taken to prevent the gasket from temperatures over 300°F.
6. If the oil separator is in a low ambient area, the oil separator should be insulated, and a heat band added to prevent liquid from condensing within the separator.

Coalescing Separator Filters

For coalescing separators, the coalescing filter should be replaced when the pressure drop between the inlet and outlet exceeds 15 psig. This can be monitored using the RDP-01 Differential Pressure Monitor.

- To remove the filter element, first reduce pressure to 0 PSIG, then remove the bolts on the flange cover plate.
- Remove the internal nut that holds the filter in place.
- Remove the old filter and install the new filter.
- Torque the filter nut to 40 in-lbs.
- Replace the flange gasket and re-install the flange cover plate.
- Torque bolts to the vessel-recommended value.

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Contact Westermeyer Industries for the most current documentation.