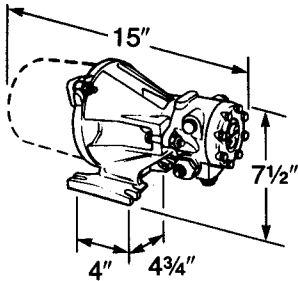




WASTE OIL TRANSFER PUMP APPLICATION, INSTALLATION, AND SERVICE GUIDE



1. APPLICATION

A. General. Suntec's compact transfer pump provides a simple, low cost means of supplying waste oil having a viscosity of up to 1500 centistokes, to remote tanks or heaters.

B. Pump and Motor Specifications. The transfer pump assembly is supplied with a single stage pump, floor mounted bracket, all necessary fasteners and couplings. The specifications for the pump and the motor are as follows:

<u>Pump</u>	<u>Motor</u>
Model NumberJ3NBN-A132B	Speed1725 rpm
Port Size { Inlet1/2" NPTF Outlet1/4" NPTF	Horsepower: (oil less than 1000 cSt)1/6 hp (oil more than 1000 cSt) ...1/4 hp
Pressure Range20-40 psi	MountingTwo-lug, Nema 48N
UL Strainer Rating10 GPH	
Flow18 gph max.*	<u>Assembly</u>
Speed1725 rpm	Transfer Pump Assembly (Includes Coupling and Motor Mounting Bolts):
Rotation (Viewing shaft end) ...CW	Less MotorBJ-1132R
Operating Vacuum ...20" Hg max.	With 1/6 Hp MotorBJ-1132M

*A greater flow rate than strainer rating requires a suitable external strainer.

2. INSTALLATION INSTRUCTIONS

A. General. The waste oil transfer pump should be installed in accordance with the National Board of Fire Underwriters requirements and local ordinances where applicable.

B. Piping. Figure 2 illustrates a typical buried tank installation. As indicated, 3/4" or 1" I.D. inlet line may be used and, depending on the size, the following restrictions apply to the horizontal run (H) allowed:

Inlet Line Size	Horizontal Run (H)
3/4" I.D.	30' Max.
1" I.D.	90' Max.

NOTE

The above line lengths were calculated on the waste oil conditions listed below. These conditions must be met to ensure optimum performance of the transfer pump:

Multi-weight oils such as 10W-30W maintained at 32°F minimum.
Straight-weight oils such as 40W, 50W, 90W and heavier gear lubes maintained at 50°F minimum.

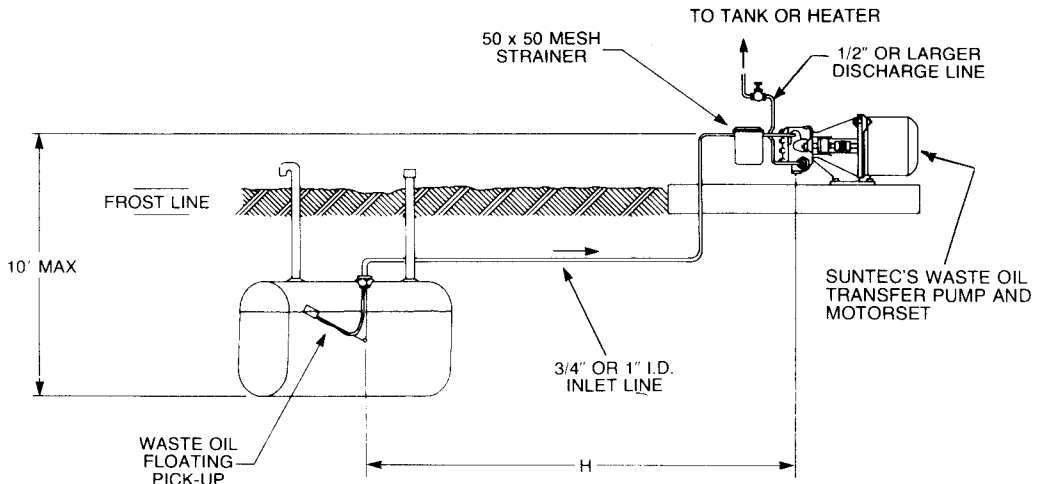


Figure 2. Typical Buried Tank Installation

C. Strip Heaters. It may be necessary to install strip heaters in order to control the temperature and viscosity of the oil within the limits previously stated. If required, refer to the instructions provided with the heaters for correct installation.

D. Pump Connections. Connections at the pump should be made in accordance with Figure 3. As noted, a vacuum gage should be installed in the unused inlet port. During operation, vacuum should not exceed 20" Hg. A pressure gage, if required, may be installed in the bleed port.

E. Two-pipe Installations. Two-pipe installations are not recommended. However, if a two-pipe system is used, a 10 psi relief valve must be installed between the return line and the inlet line within 2 feet of the pump. Return line pressure of more than 10 psi could cause premature failure of the pump shaft seal.

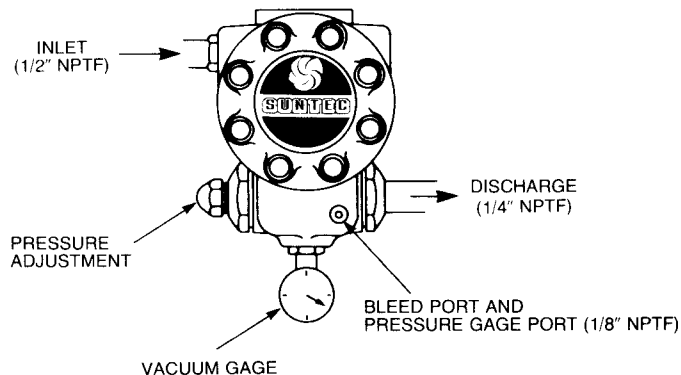


Figure 3. Pump Connections

3. START-UP

- A. If possible, fill pump with clean 10W-30W oil thru inlet port.
- B. Start pump and open bleed valve. Bleed pump in this manner for several minutes or until air-free oil is observed flowing from bleed port.

4. SERVICE

Service the transfer pump in accordance with form number 440057. Refer to form number 400316 for parts identification and ordering information.