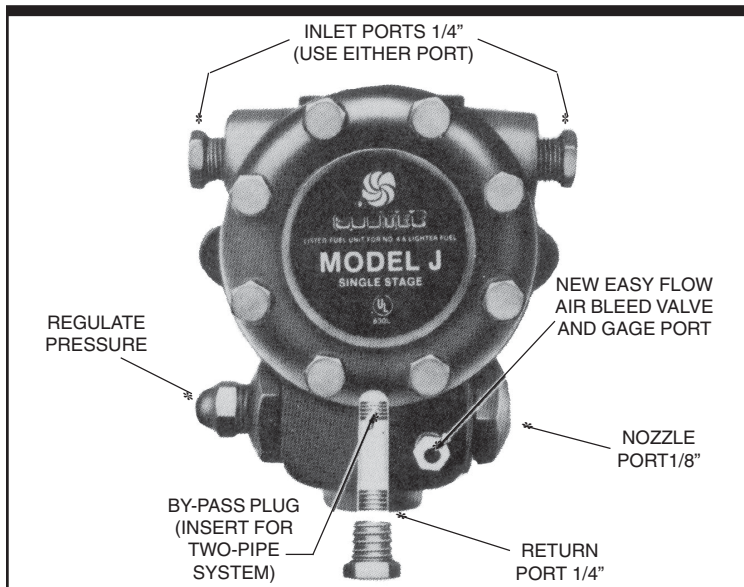


# SUNTEC ROTA-ROLL® FUEL UNITS

## MODEL J SINGLE-STAGE AND MODEL H TWO-STAGE



### **GENERAL INFORMATION • ALL SYSTEMS**

1. Oil lines should not be smaller than 1/2" O.D. copper tubing. See line sizing charts in this section or check line sizing on page III-7 of this manual.
2. Oil lines must be airtight. Check all connections and fittings. Do not use teflon tape. Do not use compression fittings.
3. During initial start-up or on a dry system, prime the pump with clean lubricating oil or motor oil.
4. Return line pressure must never exceed 10 PSI. Higher pressures can damage the seal or cause leaks.
5. **Mounting Position** -- J pumps can be mounted in any position. H pumps can be mounted with the piston chamber (regulating valve) horizontal at either the top or bottom.

## ONE-PIPE SYSTEM

Do not install by-pass plug! Connect inlet line to pump inlet. Start burner. Open easy flow bleed valve one turn CCW. Bleed unit until all air bubbles disappear. Tighten easy flow bleed valve. Figures 1 and 2 show typical one-pipe installations. J and H pumps are not recommended for lifts (H) above two feet or 2 inches mercury inlet vacuum with the exception of the J2XXF pump.

For additional information, see Single-Pipe Installation Section, page III-1 of this manual. Figures 1 and 2 are typical one-pipe systems.

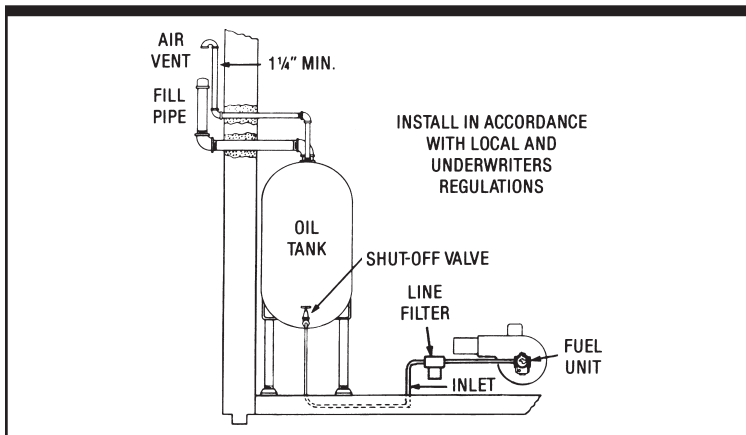


FIGURE 1

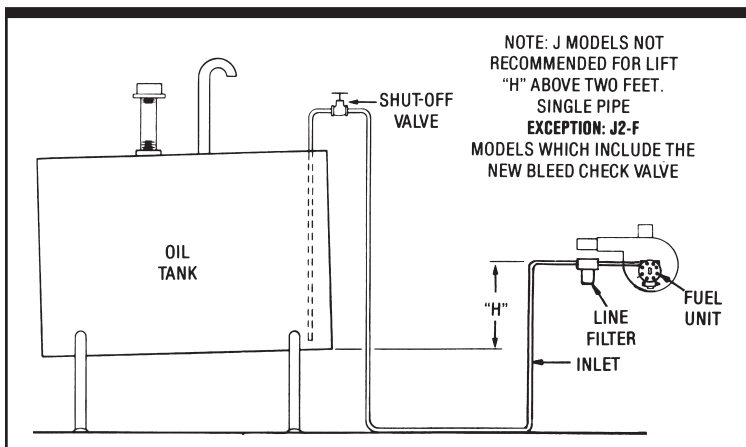


FIGURE 2

L=Line Length in Feet	H=Head in Feet	Q=Firing Rate in GPH
$\frac{3}{8}" \text{ Line } L = \frac{2 \cdot .75H}{.0086 Q}$	$\frac{1}{2}" \text{ Line } L = \frac{2 \cdot .75H}{.00218 Q}$	

If tank is above pump, change - to +. Fittings, valves, and filters will reduce total length allowed.

## TWO-PIPE SYSTEM

Install by-pass plug inside the return port of the pump, using an allen wrench and making sure it is tight. (See illustration at the beginning of this section.) On a connected two-pipe, the fuel pump is selfpriming. Model J can be used two-pipe to 12-inch mercury vacuum; Model H can be used to 17-inch mercury vacuum. For additional information, see Two-Pipe Section, page III-3 of this manual. Figures 3 and 4 are illustrations of typical two-pipe installations.

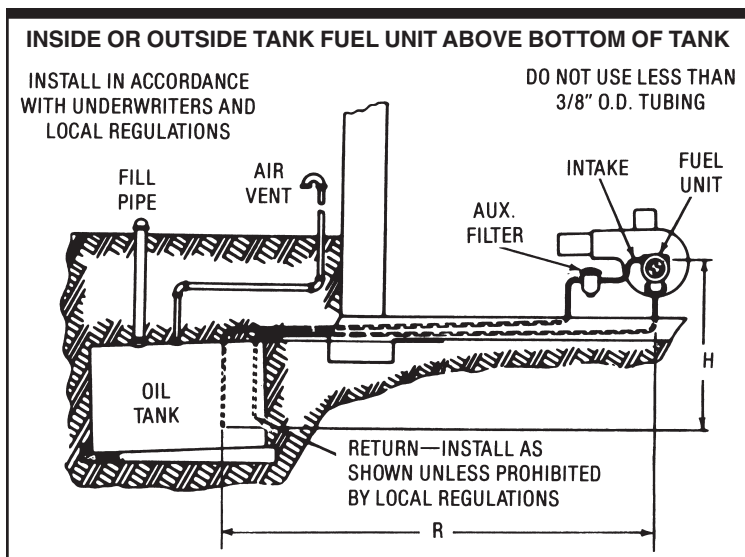


FIGURE 3

Maximum recommended horizontal run for suction or return. For conditions longer than the charts, please contact factory. Although there is a chart for 3/8" copper lines, it is recommended that you not use less than 1/2" copper tubing. On all installations, running vacuum and return line pressure should be checked before leaving any installation.