

IMPORTANT INFORMATION

This product is not compatible with fuel blends containing more than 5% biodiesel.

ONE-PIPE SYSTEM – FIGURE 2

DO NOT INSTALL BY-PASS PLUG! Connect inlet line to the pump inlet. Start burner. Arrange primary burner control for continuous operation during purging. Open easy flow bleed valve 1 turn CCW. Bleed unit until all air bubbles disappear – HURRIED BLEEDING WILL IMPAIR EFFICIENT OPERATION OF UNIT. Tighten easy flow bleed valve securely.

TWO-PIPE SYSTEM – FIGURE 3

REMOVE 1/16" BY-PASS PLUG FROM PLASTIC BAG ATTACHED TO UNIT. Remove 1/4" plug from return port. Insert by-pass plug (See Figure 1), tighten plug. Attach return and inlet lines. Start burner – Air bleeding is automatic. Opening Easy Flow Air Bleed Valve will allow a faster bleed if desired. Return line must terminate 3-4" above supply line inlet. (See Figure 3). Failure to do this may introduce air into the system and could result in loss of prime.

GENERAL INFORMATION – ALL SYSTEMS

IMPORTANT INFORMATION: long or oversized inlet lines may require the pump to operate dry during initial bleeding period. In such cases, the priming may be assisted by injecting fuel oil into the pump gearset. Under lift conditions, oil lines and fittings must be air tight. To assure this, "Pipe Dope" may be applied to both the used and unused inlet and both return fittings. **DO NOT USE TEFLON TAPE! DO NOT USE COMPRESSION FITTINGS!**

MOUNTING POSITION: Model "B" Two Stage Fuel Unit may be mounted in any position except upside down or shaft pointing upwards.

VACUUM CHECK: a vacuum gage may be installed in either of the 1/4" inlet ports or in the 1/4" return port (on single pipe installations), whichever is most convenient. The model "B" pump should be used where vacuum does not exceed 17" hg. Running vacuum is the total of all pressure drops (ΔP) from the tank to the inlet of the pump.

CAUTION

Pressurized or gravity feed installations must not exceed 10 PSI on inlet line or return line at the pump. A pressure greater than 10 PSI may cause damage to the shaft seal.

Models B2TA 8249, B2TA 8265 and B2TA 8930 have no internal nozzle line cut-off and require external shut-off valves.

ONE-PIPE SYSTEM

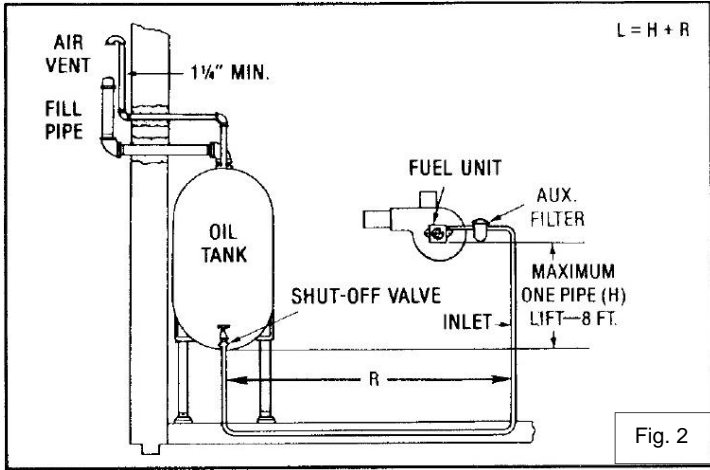


Fig. 2

This SUNTEC Model may be installed one-pipe with gravity feed or lift. The maximum allowable lift is 8 ft. – See Figure 2.

IMPORTANT: One-pipe installations must be absolutely air tight or leaks or loss of prime may result. Bleed line and fuel unit completely. **Bleed for 15 seconds after last air is seen from easy flow to be certain lines are air free.**

L = Line length in feet H = Head in feet Q = Firing Rate in GPH

	Tank below pump	Tank above pump
3/8" line	$L = \frac{6 - .75H}{.0086 Q}$	$L = \frac{6 + .75H}{.0086 Q}$
1/2" line	$L = \frac{6 - .75H}{.00218 Q}$	$L = \frac{6 + .75H}{.00218 Q}$

Fittings, valves, and filters will reduce total length allowed.

TWO-PIPE SYSTEM

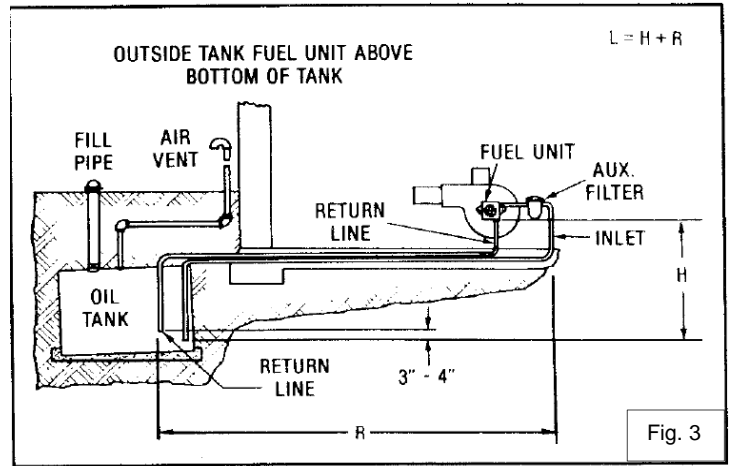


Fig. 3

MODEL B TWO-STAGE, HIGH-PRESSURE TWO-PIPE MAXIMUM LINE LENGTH (H+R)						
Lift "H" Figure 3	3450 RPM					
	3/8" O.D. Tubing		1/2" O.D. Tubing			5/8" O.D. Tubing
	10 GPH	16 GPH	10 GPH	16 GPH	23 GPH	23 GPH
0'	70'	60'	100'	100'	100'	100'
2'	64'	55'	100'	100'	100'	100'
4'	58'	50'	100'	100'	100'	100'
6'	52'	44'	100'	100'	100'	100'
8'	45'	39'	100'	100'	100'	100'
10'	39'	34'	100'	100'	100'	100'
12'	33'	28'	100'	100'	94'	100'
14'	27'	23'	100'	91'	76'	100'
16'	21'	18'	81'	70'	59'	100'
18'	-	-	57'	49'	41'	100'
-	-	-	-	-	-	-

Always terminate return line as shown in Figure 3. Line lengths include both vertical and horizontal lengths.

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