

TWO-PIPE SYSTEM - INLET AND RETURN LINE - FIGURE 3 :

REMOVE THE 1/4 NPTF PLUG FROM THE RETURN PORT AND DISCARD.

Then remove the 1/16" by-pass plug from the plastic bag attached to the unit and, with a 5/32" Allen wrench, insert it securely into the recessed port inside the return port (see figure 1). Finally, insert the return line fitting into the 1/4 NPTF return port and attach the return line.

WARNING: DO NOT BLOCK OR RESTRICT THE 1/4 NPTF RETURN PORT OR THE RETURN LINE!

AVERTISSEMENT : NE PAS BLOQUER OU RESTREINDRE LE RETOUR 1/4 NPTF OU LA LIGNE RETOUR !

The return line must terminate in the supply tank 3-4" above the supply inlet, or air can be introduced and cause loss of prime.

Priming is automatic, but may be accelerated by opening the bleed valve. See 2-P sketches below (figure 3), and see the chart or recommended line sizes and lengths.

OPERATING INFORMATION:

Max. Firing Rate: Use the decal nozzle rating, which may be less than the UL strainer rating

Vacuum Check: A vacuum gage may be installed in either 1/4 NPTF INLET PORT. Model A units should be used where the running vacuum does not exceed 6" Hg single pipe or 12" Hg two-pipe. Model B units should be used where the running vacuum does not exceed 17" Hg.

Pressure Check: Use only the 1/8 NPTF GAGE PORT or 1/8 NPTF NOZZLE PORT. DO NOT USE THE EASY FLOW BLEEDER VALVE PORT, as the reading will be too high for nearly all models of this series, resulting in a WRONG operating pressure

Cut-off Pressure: Units having cut-off can be checked by installing a pressure gage directly into the NOZZLE PORT. Run the unit briefly, shut it off and watch for the pressure to drop and then hold above zero.

TWO-PIPE SYSTEM

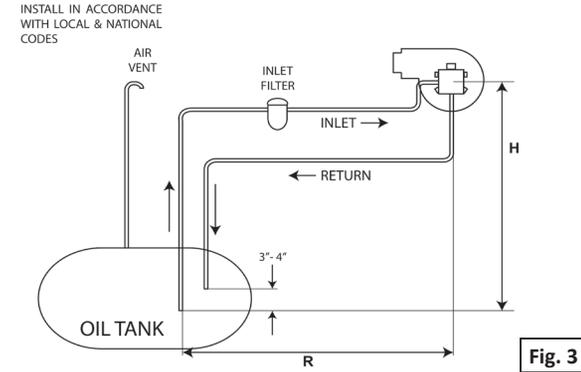


Fig. 3

ONE PIPE SYSTEM

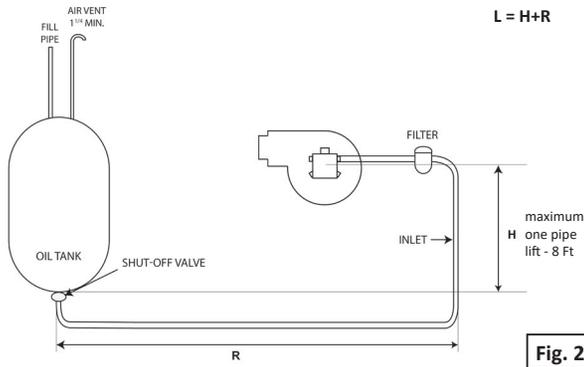


Fig. 2

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

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

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

NOTE: It is recommended to avoid 3/8" lines where feasible.

Inlet Tubing Size	Lift H (Ft.)	-Model A Single Stage-				Model B Two-Stage			
		1725 RPM		3450 RPM		1725 RPM		3450 RPM	
		3 GPH	7 GPH	3 GPH	7 GPH	3 GPH	7 GPH	3 GPH	7 GPH
3/8" O.D. Copper Tubing	0	86	70	84	71	100	91	93	80
	2	75	60	73	62	100	83	85	73
	4	64	50	63	53	89	75	77	66
	6	54	41	52	44	80	67	69	59
	8	43	32	42	35	70	59	60	52
	10	32	22	31	27	61	51	52	45
	12	21	13	21	18	51	43	44	38
	14	-	-	-	-	41	35	36	31
	16	-	-	-	-	32	27	27	24
18	-	-	-	-	22	-	-	-	
1/2" O.D. Copper Tubing	0	100	100	100	100	100	100	100	100
	2	100	100	100	100	100	100	100	100
	4	100	100	100	100	100	100	100	100
	6	100	100	100	100	100	100	100	100
	8	100	100	100	100	100	100	100	100
	10	100	90	100	100	100	100	100	100
	12	85	60	83	70	100	100	100	100
	14	42	30	41	35	100	100	100	100
	16	-	-	-	-	100	100	100	100
18	-	-	-	-	88	74	76	65	

(max. total line length L=H+R ; calculated for fuel viscosity 57 SSU)

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