Low Intensity Accessory Instruction Sheet

U-Tube Installation Instructions & Specifications (P/N: TF1B)

Note: For use with HL2, DX2, XTS, CL, CX, RVA2, AG2, AG1, HLV or SV Models. Consult factory for CNG applications.

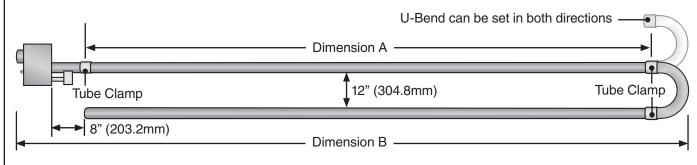
Parts List

- (1) TF1B 180° U-tube Fitting
- (1) TP-21B 4 in. Tube Clamp
- (1) TP-19B 4 in. Wire Hanger
- (2) TP-105 Reflector End Caps
- (8) TP-106 Reflector End Cap Clips

Note: Reflector fitting (P/N: RU) is not included. Reference warning below.

IMPORTANT! Refer to alternate instructions supplied with the U-tube fitting (P/N: TF1B) regarding baffle assembly instructions. One section of baffle must be removed if heater is installed with 4 in. (101.6 mm) O.D. U-tube accessory fitting (P/N: TF1B).

Figure 1 • Dimensions for Heater Installed with U-tube Fitting (P/N: TF1B)



Note: Measurements are nominal. Variances of 0 to 3 in. (76.2mm) may exist.

A 36 in. (914.4mm) minimum separation of vent products from combustion air intake is required.

Chart 1 • Minimum Distance From Burner Control Box to U-Bend (P/N: TF1B)

Model BTU/H Range*	Dimension A
40,000 to 100,000	10 ft. (3m)
110,000 to 125,000	15 ft. (4.6m)
130,000 to 175,000	20 ft. (6m)
200,000	25 ft. (7.6m)

^{*}Consult factory for CNG applications.

Chart 2 • Overall Dimensions for Heaters Configured with U-Bend (P/N: TF1B)

Tube Length	Dimension B	Notes
20 ft.	13'-0" / 156"	N/A
30 ft.	17'-8" / 212"	5EA-SUB required*
40 ft.	22'-8" / 272"	N/A
50 ft.	27'-4" / 328"	5EA-SUB required*
60 ft.	32'-4" / 388"	N/A
70 ft.	37'-2" / 446"	5EA-SUB required*
80 ft.	42'-0" / 504"	N/A

*When using the TF1B "U-bend" accessory fitting on 30 ft. (9m), 50 ft. (15m) or 70 ft. (21m) heater models, the 5EA-SUB accessory package is required and may only be ordered at the time of heater production. This option substitutes one 10 ft. (3m) tube and reflector section with two 5 ft. (1.5m) tube and reflector sections. Field corrections require (2)TR-60 packages.

A WARNING

The top Clearance to Combustibles is 18 in. (457.2 mm) when a U-tube fitting (P/N: TF1B) is installed without a reflector cover.

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Figure 2 • 45° Angle Mounting

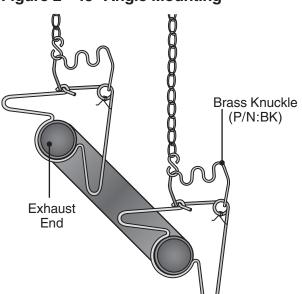


Figure 3 • TF1B U-tube Dimensions

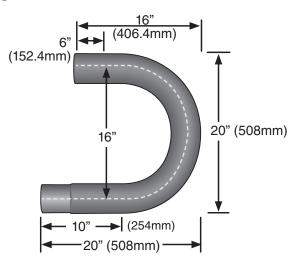


Figure 4 • Burner Control Box Dimensions - End View

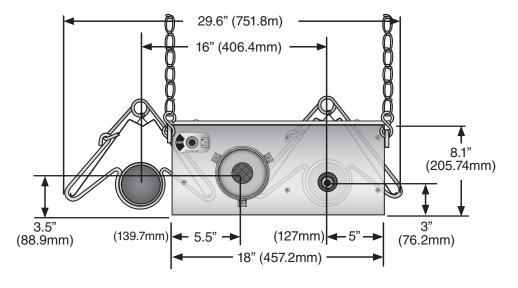
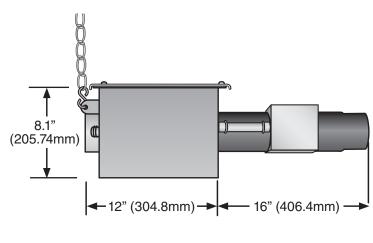


Figure 5 • Burner Control Box Dimensions - Side View



Note: When mounting a heater configured with a U-tube fitting (P/N: TF1B) on a 45° angle, the exhaust end of the heater must be placed higher than the burner end. The burner control box remain horizontal/level. Refer to Figure 2 above.

Note: Heaters configured with a TF1B can be mounted at a 15, 30 or 45 degree angle with two suspension points, using two Brass Knuckles (P/N: BK), #1 double-loop chains and S-hooks. Refer to Figure 2 above.