

RADIANT TUBE BURNERS

4727



WESMAN

COMBUSTION EQUIPMENT

WESMAN SERIES 4727 RADIANT TUBE BURNERS

are open fired and feature wide turndown. Inherent is the advantage that a pull-through burner prevents furnace contamination if small tube leaks develop. A soft, slow burning flame is drawn through the tube by an eductor or fan at the tube exhaust. Because the burner is open and tube can be easily cleaned. Fluctuations in suction or occasional puffs do not affect flame stability with the open burner design. The annular pilot is an integral part of the burner, allowing its flame to be clearly observed at all firing rates.

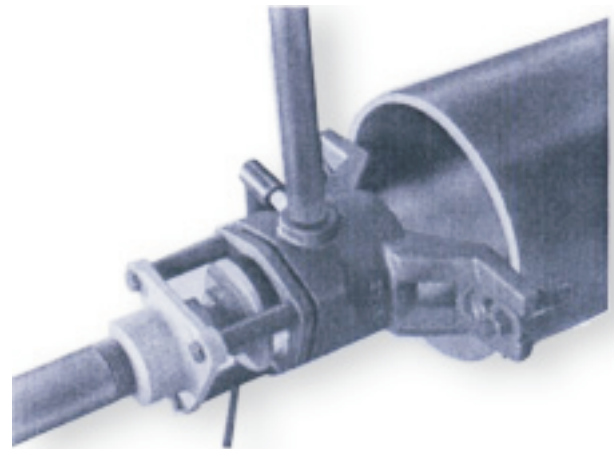
MODEL 4727-A: Tubes ranging from with 3 1/2" to 4" ID require A flange. Tubes with 4" or 4 1/2" ID require two 3/8" studs (mounted on the inside of the tube).

CAPACITY: Series 4727 Pull-Thru burner capacities range from 100,000 to 750,000 Btu/hr depending on tube size.

GAS PRESSURE: Requirement at burner is 5-8 osi.

PILOT: 4727 Burner's annular manual or spark ignited pilot requires 4 osi air. Individual pilot mixers can be used, or multiple pilots in same control zone can be supplied by a common mixer. Capacity 25,000 Btu/hr at 2"wc mixture pressure.

DRILL DESIGNATION	NOZZLE DIAMETER INCHES	NATURAL GAS FLOW		GAS NOZZLE PART NUMBER
		5 OSI PRESSURE	8 OSI PRESSURE	
-	-	0	0	04A-1341-9
#19	0.166	105	130	04A-1341-10
#10	0.193	145	180	04A-1341-1
#2	0.221	190	240	04A-1341-2
#C	0.242	230	290	04A-1341-14
1/4	0.250	245	310	04A-1341-3
#1	0.272	295	370	04A-1341-4
9/32	0.281	315	395	04A-1341-13
5/16	0.313	375	475	04A-1341-11
21/64	0.328	435	550	04A-1341-5
#T	0.358	500	630	04A-1341-6
3/8	0.375	550	695	04A-1341-12
13/32	0.406	670	840	04A-1341-7



MODEL 4727-B: Tubes ranging from with 5" to 7" ID require two 3/8" studs (mounted on the inside for 6 1/2" or 7" 10 tubes).

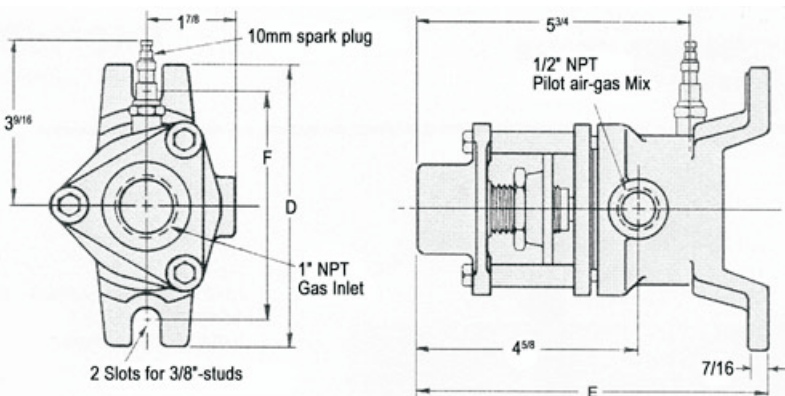
If the distance from the burner end of the tube to inside wall of the furnace is greater than 13 1/2" consult WESMAN

BURNER AND EDUCTOR SELECTION

1. Btu/hr input.
2. Type of gas and pressure available.
3. 10 of tube.
4. Suction available at burner (or length and configuration of tube, suction at exhaust, and furnace operating temperature).
5. Spark or manual ignition.

TUBE SUCTION: Suction required is only enough to overcome pressure loss in the tube itself. Pressure drop across the burner is negligible. Tube loss may range from 0.2" to 1.0"wc depending on length, 10, configuration and temperature. Suction should be provided by an eductor or fan at the tube exhaust.

OPERATION: Although the most common control for radiant tube burners is on-off, the 4727 Burner works well with high-low-off or modulating control systems. A 7218 Atmospheric Regulator in burner gas line can be cross-connected to the eductor primary air supply. Alternate method is to control gas only with a solenoid or motorized valve.



To order, specify: 4727-8ize Code (A or B)-E (with electrode when applicable) and nozzle drill designation from table. 4727-A Burner less Electrode with Gas Nozzle # 10 drill
 4727-A-E Burner Complete with Electrode with Gas Nozzle 'f4 drill
 4727-B Burner less Electrode with Gas Nozzle blank
 4727-B-E Burner Complete with Electrode with Gas Nozzle # 1 drill

SINCE THE GAS FLOW RATE CAN VARY DUE TO VARIATIONS IN THE TUBE PRESSURE, USE THIS GAS FLOW CHART ONLY AS A GUIDE. USE AN 8697 METERING ORIFICE TO MEASURE THE ACTUAL FLOW IF HIGHER ACCURACY IS DESIRED.

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