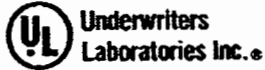


# Model G Specification Data

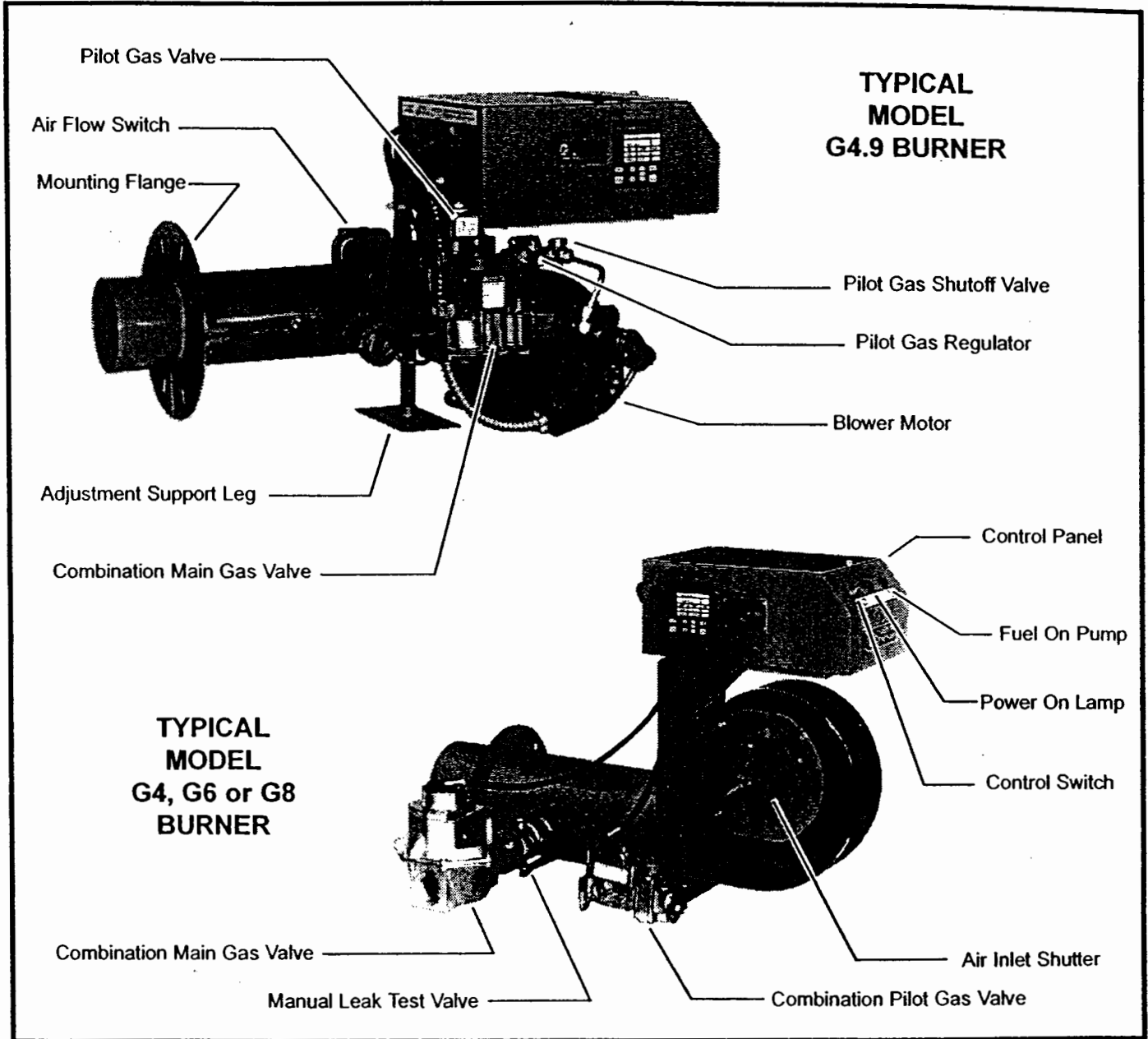
<b>1</b>	<b>G</b>	<b>15.1</b>	Rev. 3
4-97	Replaces	3-95	

**Forced Draft Gas Burner  
Using Natural or L. P. Gas**

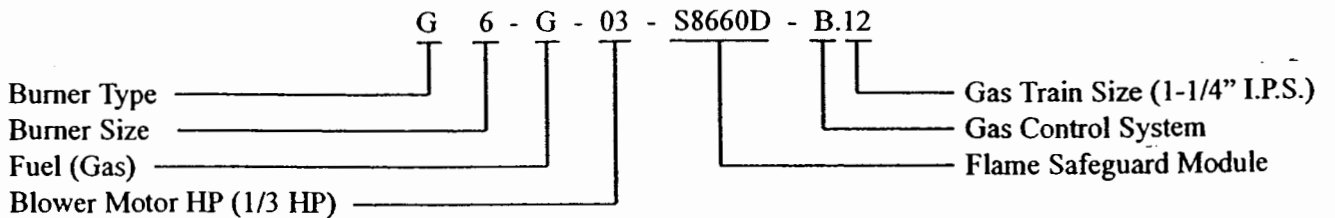
**PAT. NO. 5,090,897**



■ ON - OFF



## Burner Numbering System



**1** Use Order Entry and Equipment Pricing Form 1196 when placing order.

## Specifications and Capacities

BURNER MODEL	MOTOR HP	DIFFUSER O.D.	FIRING RATE RANGE (MBH) [1]					APPROX. SHIP WT.
			FIREBOX PRESSURE					
			-10	0	+25	+50	+75	
G4.9	1/10	3-3/8	275-400	250-400	225-400	--	--	45
		3-5/8	150-250	150-250	150-250	--	--	
		3-3/4	125-200	100-200	100-175	--	--	
G4	1/4	3-1/4	400-600	400-600	400-550	400-500	--	60
G6	1/3	5-13/16	550-650	500-600	500-550	500-550	490-500	90
		5-9/16	700-900	650-850	650-800	600-800	600-750	
		5-5/16	850-1150	800-1100	800-1050	750-1000	700-950	
G8	1/3	7-1/2	1050-1350	1050-1350	1050-1300	1050-1250	--	110
		7-7/16	1350-1700	1350-1650	1300-1550	1250-1500	1200-1450	
		6-3/4	1650-2300	1650-2250	1550-2200	1500-2100	1450-1950	
		6.0	1900-2500	1850-2500	1800-2500	1750-2500	1750-2500	

- On-Off Operation
- Natural or L.P. Gas
- Flame Rectification
- 30 Second Prepurge
- Combustion Control/ignition Module
- Intermittent Gas Pilot Ignition
- 115 Volt - 60 Hz - 1 Phase
- Maximum Inlet Gas Pressure is 14" wc
- U.L. Listed

[1] Capacity based on higher heating value (HHV) of natural gas and at an elevation of 2000 ft. MSL. Capacity will be reduced 4% for each additional 1000 ft. of elevation.

## Standard Equipment

- Blower Motor and Blower Assembly
- Air Inlet Shutter
- Integral Motor Overload Protection
- Combustion Safety Control with Integral Pilot Ignition
- Internal Gas Pilot with Combination Ignition Electrode and Sensor
- Pilot Solenoid Valve
- Pilot Gas Pressure Regulator
- On-Off Control Switch
- Power On Light
- Main Fuel On Light
- 24 Volt Control Transformer
- Diaphragm Air Flow Switch
- Combination Gas Valve and Regulator
- Manual Leak Test Valve
- G4.9 Supplied with Redundant Gas Valve
- Second Automatic Safety Shutoff Valve - (G4 - G8)

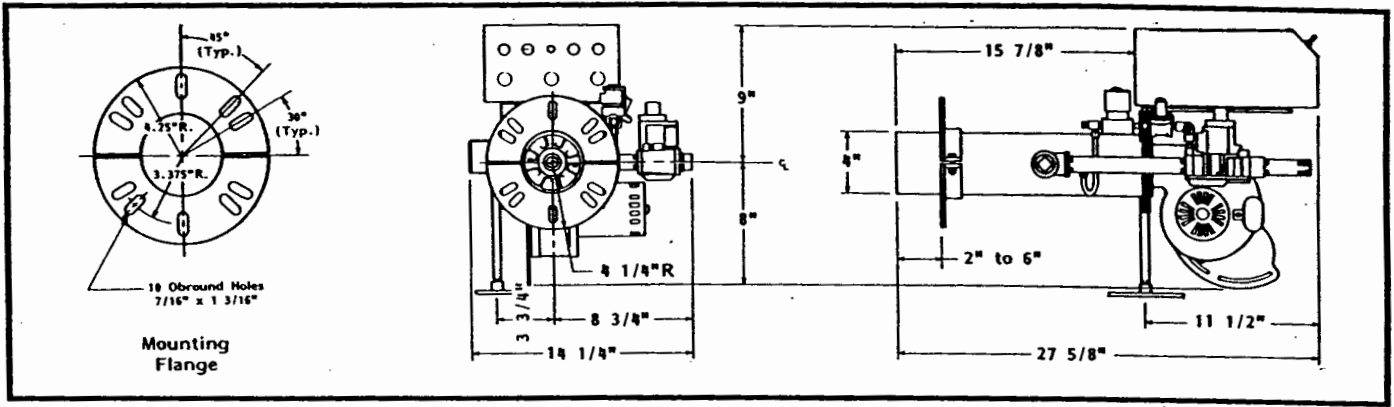
## Optional Equipment

- Swing Away Housing - (G4 - G8 Only)
- Main Manual Shutoff Valve
- Diaphragm Safety Shutoff Valve with separate Gas Pressure Regulator - (G4 - G8)

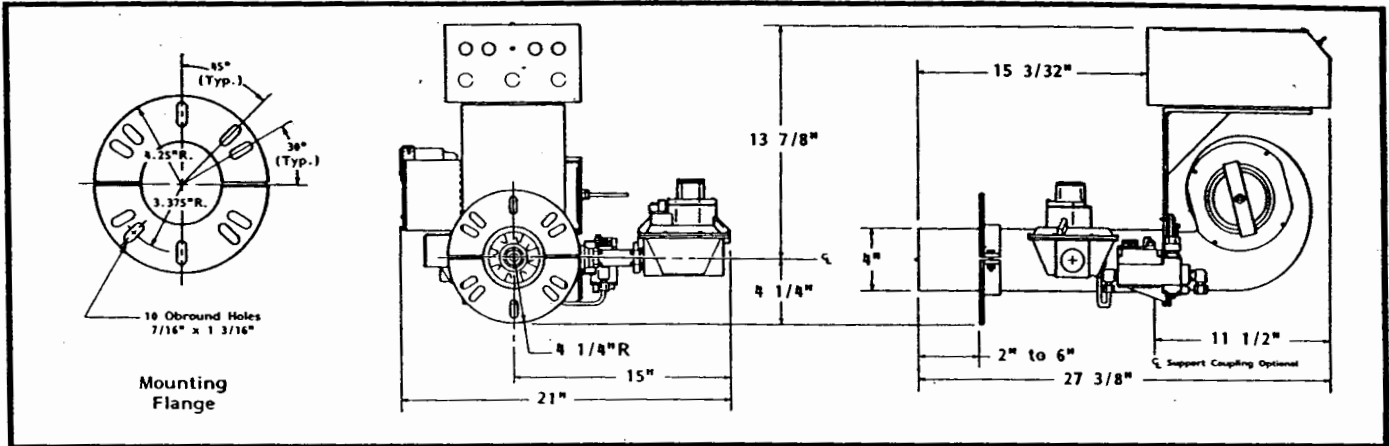
Figure 5

Dimensions

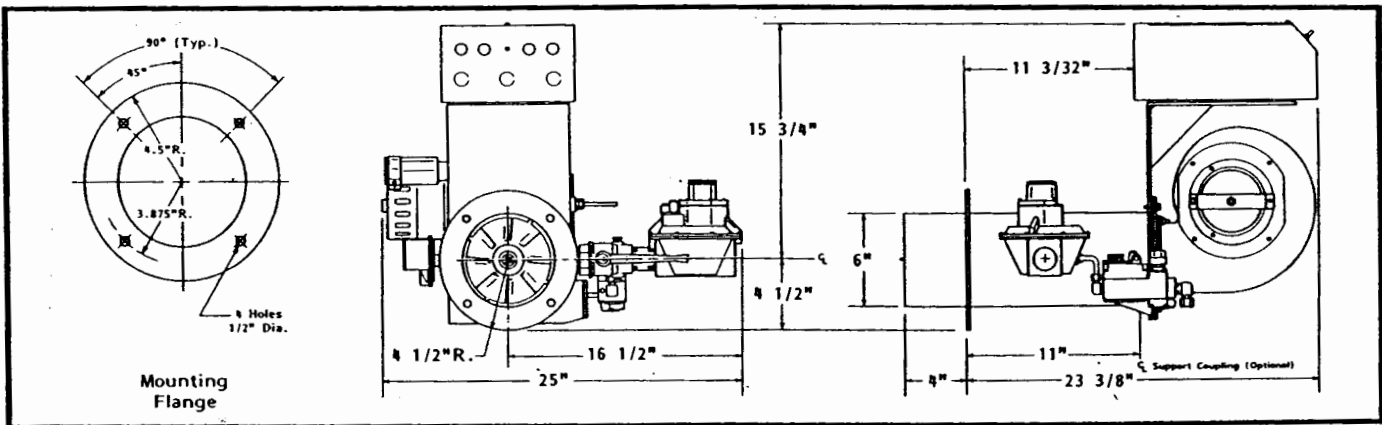
Dimensions May Be Changed Without Notice



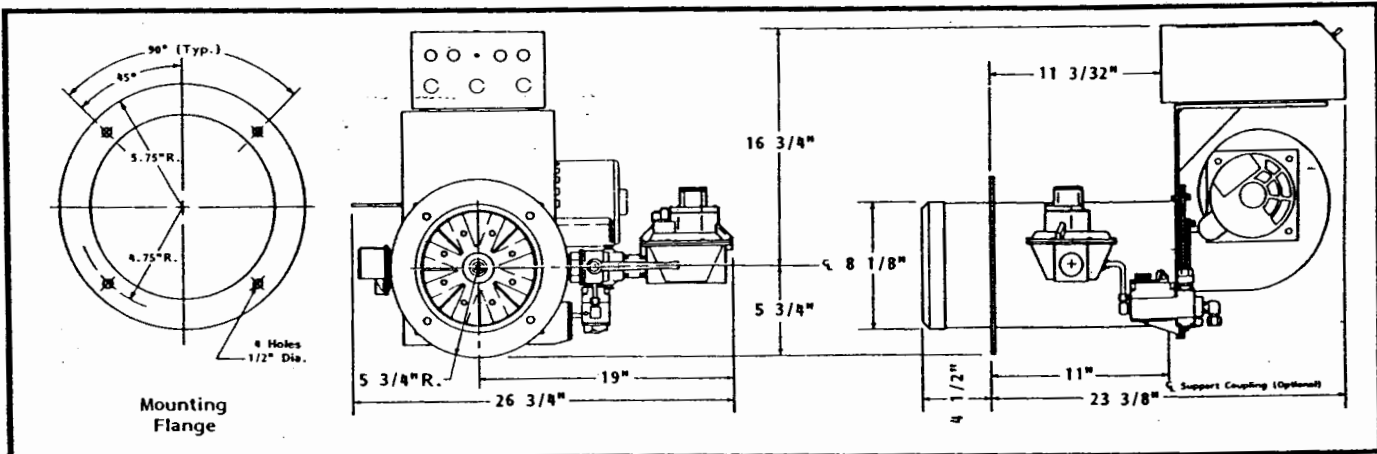
MODEL G4.9 BURNER



MODEL G4 BURNER



MODEL G6 BURNER



MODEL G8 BURNER

Minimum Recommended Combustion Chamber Dimensions (Inches)			
Input MBh	Rectangular Chamber		Round Chamber
	Inside Width	Inside Length	Inside Diameter
100-375	12	14	12
376-600	14	19	14
601-800	15	24	16
801-1000	18	29	18
1001-1200	20	34	20
1201-1400	21	39	22
1401-1600	22	44	22
1601-1800	24	49	24
1801-2000	26	54	26
2001-2200	27	57	28
2201-2500	28	60	28

**NOTE**

Combustion chamber dimensions may vary from table to fit job conditions. Floor area should not be less than 50 square inches per 100 MBh input. Larger floor areas are desirable as combustion chamber temperatures will be reduced giving longer refractory life. Combustion chamber length should not be less than 1 1/2 times the width. Combustion chamber height should equal chamber width or approximately twice the nozzle height of the burner from the floor. Recommended minimum distance from center line of burner head to the floor is 6".

**Typical Applications**

	<p><b>FIREBOX BOILER WITH COMBUSTION CHAMBER IN BASE</b></p> <p>The illustration at left shows the burner installed in a conventional firebox boiler using a standard base and combustion chamber.</p>
<p><b>FIREBOX BOILER FOR "FORCED DRAFT" FIRING</b></p> <p>The burner installation in a firebox type boiler designed for forced draft firing requires no refractory other than in the floor of the firebox and the burner frontplate. Special frontplates may be ordered with the burner to fit the boiler opening.</p>	<p><b>INSTALLATION IN SCOTCH MARINE BOILER</b></p> <p>May be installed in Scotch Marine boilers of either 2 or 3 pass design. Refractory frontplate may be ordered with burner to adapt burner to boiler and provide protection to non-water backed surfaces</p>