

Q SERIES

TECHNICAL DATA INFORMATION PACKET

**INDUSTRIAL
COMBUSTION**

Technical Data

Q Series

Gas Only Configuration

UL / cUL listed

.55 - 3.8 MMBTU/H

Standard equipment:	Combustion Control System options:	Fuel options:
Variable RPM blower, panel signal lights (Power, Fuel, Ignition, Failure), combustion air proving switch, safety shutoff valves, 120/1/60 control circuit, burner mounted panel, and a shipped loose gas train (where applicable).	Flame safe guard with integrated parallel positioning control	Main Fuel: Natural or propane gas Igniter Fuel: Natural gas or propane

Series Features

◊ Optional Feature

	Q6-055	Q6-075	Q6-100	Q6-130	Q6-150	Q8-175	Q8-200	Q8-250	Q8-300	Q8-340	Q8-380
Flame Safeguard											
Open Damper Purge Control w UV Scanner	•	•	•	•	•	•	•	•	•	•	•
Mode of Operation											
Low-High-Low Firing ¹	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊
Full Modulation Firing ²	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊
Turndown											
Turndown on Natural Gas	1.5:1	2:1	2.7:1	3.3:1	4:1	3.5:1	4:1	5:1	4:1	4.5:1	5:1
Combustion Control System											
Parallel Positioning System	•	•	•	•	•	•	•	•	•	•	•
Ignition											
Direct Spark	•	•	•	•	•	•	•	•	•	•	•
Gas Components											
Butterfly Rate Control Valve	•	•	•	•	•	•	•	•	•	•	•
Gas Shutoff Cock	•	•	•	•	•	•	•	•	•	•	•
Solenoid and Diaphragm SSOV	•	•	•	•	•	•	•	•			
Motorized and Solenoid SSOV	◊	◊	◊	◊	◊	◊	◊	◊	•	•	•
Single Motorized with POC	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊
Gas Pressure Switches	•	•	•	•	•	•	•	•	•	•	•

1. A low/high pressure or temperature switch can optionally be provided to operate the burner in low-high-low mode.

2. A load control device and sensor can optionally be provided to operate the burner in full modulation mode.

Standard Ratings

Q Series

Gas Only Configuration

	Gas Input MBH	BHP @ 80% Eff.	Blower Motor Watts	Furnace Pressure ("w.c.)	Standard Gas Train Pipe Size (in.)	Min. Gas Pressure ("w.c.)	Low Pressure Gas Train Pipe Size (in.)	Low Gas Pressure Inlet ("w.c.)	Fresh Air Inlet Size (in.)	Air Inlet Orifice Size (in.)
Model No. & Frame Size										
Q6-055	550	13	345	1.0	1.5	4.0	1.5	4.0	4.4	1.46
Q6-075	750	18	345	1.0	1.5	4.0	1.5	4.0	4.4	1.71
Q6-100	1,000	24	345	1.0	1.5	4.0	1.5	4.0	4.4	1.94
Q6-130	1,250	30	345	1.0	1.5	4.0	1.5	4.0	4.4	2.29
Q6-150	1,500	36	345	0.75	1.5	6.0	2.0	4.0	4.4	2.56
Q8-175	1,750	42	732	1.0	1.5	6.0	2.0	4.0	4.4	2.52
Q8-200	2,000	48	732	1.0	1.5	6.0	2.0	4.0	4.4	2.74
Q8-250	2,500	60	732	0.75	1.5	10.0	2.0	4.5	4.4	3.16
Q8-300	3,000	71	1,836	2.00	2.0	6.8	2.0	6.8	4.9	-
Q8-340	3,400	81	1836	1.80	2.0	8.9	2.0	8.9	4.90	-
Q8-380	3,800	90	1836	1.60	2.0	11.1	2.0	11.1	4.90	-

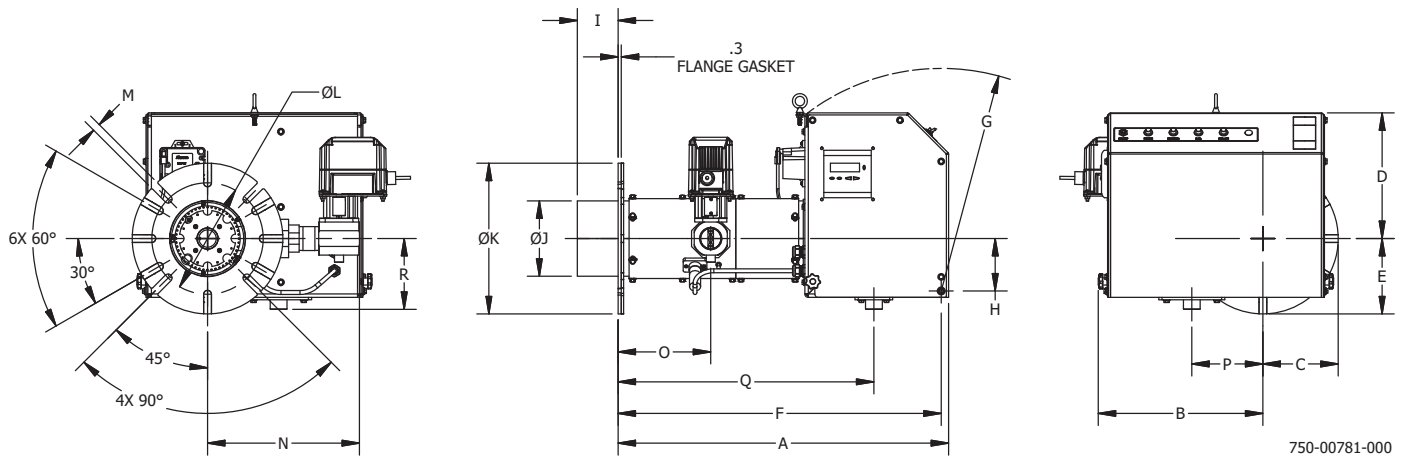
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Input is based on fuel BTU content, listed furnace pressure and altitude of 2,000 feet or less. If altitude > 2,000 feet and < 8,000 feet, derate capacity 4% per 1,000 feet over 2,000. Consult factory for higher altitudes. If furnace pressure exceeds listed value, derate capacity 5% for every 0.5" w.c. of pressure in excess of stated. Consult factory if derate exceeds 10%. Gas input is based on natural gas with 1,000 BTU/cu.ft. and 0.60 gravity. For total pressure at manifold, add furnace pressure. Consult factory for 50 Hz. applications.

Standard Dimensions

Q Series

Q: Gas Only Full Modulation Configuration



750-00781-000

Dimensions in inches

	DIM	Burner Model	
		Q6	Q8
OVERALL BURNER LENGTH	A	26.3	28.9
CENTER LINE TO LEFT SIDE	B	13.1	13.6
CENTER LINE TO RIGHT SIDE	C	6.0	8.5
CENTER LINE TO TOP	D	10.0	11.9
CENTER LINE TO BOTTOM	E	6.0	7.0
MOUNTING FLANGE TO HINGE	F	25.7	28.4
HINGE SWING RADIUS	G	17.7	20.6
CENTER LINE TO HINGE	H	4.2	3.9
EXTENSION	I	3.3	3.3
DIAMETER	J	6.0	8.0
OUTER DIAMETER OF MOUNTING FLANGE	K	12.0	14.0
BOLT CIRCLE DIAMETER	L	8.9	10.9
MOUNTING FLANGE SLOT WIDTH	M	0.6	0.6
CENTERLINE TO MAIN GAS INLET	N	12.1	13.1
MOUNTING FLANGE TO MAIN GAS INLET	O	7.4	7.4
BURNER SUPPORT TO CENTERLINE	P	5.7	3.4
BURNER SUPPORT TO MOUNTING FLANGE	Q	20.4	24.9
CENTERLINE TO SUPPORT BRACKET	R	5.6	5.3

Accompanying dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction.



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