Q SERIES

0.4 TO 3.8 MM BTU/HR

H_2
HYDROGEN
BLEND READY

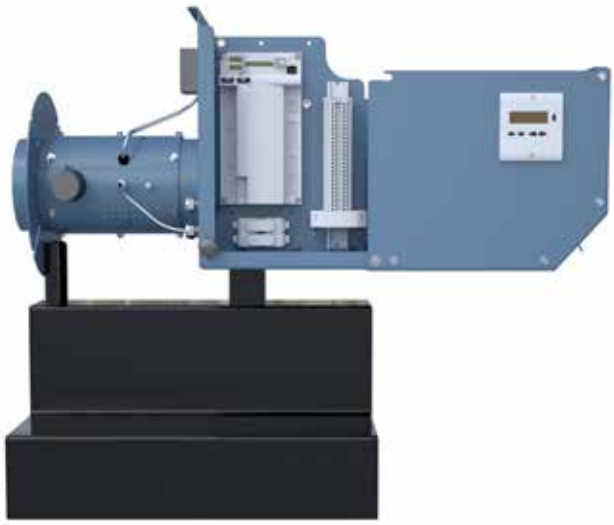
INDUSTRIAL
COMBUSTION

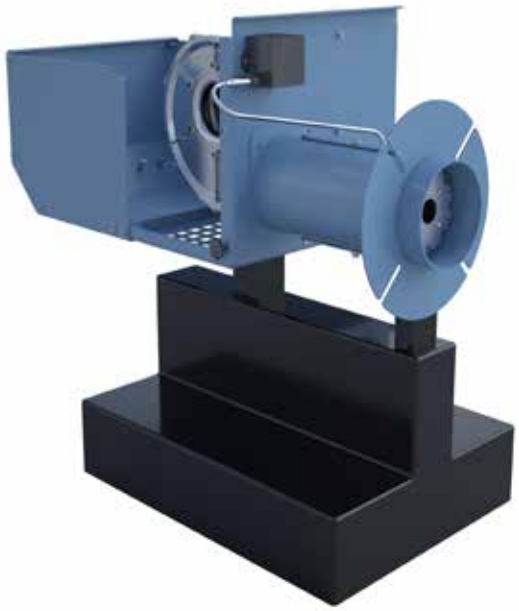
Advanced Engineering.

Ultra-Quiet Operation.

Designed around efficiency and operational simplicity, the Q series is perfect for cast iron sectional boilers, firebox, commercial watertube, firetube, furnace and oven applications. The standard Q series features linkageless operation with DC pulse width modulation and parallel positioning gas actuator control for increased efficiencies and ease of use. The whisper quiet, compact design has a totally enclosed, hinged burner housing and allows provisions for sealed combustion or fresh air intake. Advanced technology allows the Q series to offer low NOx, low CO emissions and up to 5:1 turndown on natural gas.

Compact design with SIMPLICITY and *cost savings* in mind.





Modes of Operation

Features low-high-low or full modulation utilizing a parallel positioning gas flow ratio control.

Easy Setup/ Commissioning

The parallel positioning gas actuator control with pulse width modulation make setup as easy as setting the main regulator and programming a curve.

Linkageless System

The linkageless system utilizes a DC pulse width modulation blower and gas actuator control to simplify burner setup and operation. The DC pulse width modulation reduces electrical and maintenance costs and produces a quiet operation; while the gas actuator controls the fuel and proportions the gas to a predetermined flow.

Compact Design

The fully enclosed air housing features a hinged cover which provides easy access to internal components and a whisper quiet operation.

Low Blower Motor HP

Advanced engineering provides increased combustion air fan efficiency requiring lower blower motor horsepower, thus increasing electrical savings.

The Q Burner Explained:

The standard Q series includes on/off, low-high-low, or full modulation linkageless operation with DC pulse width modulation and offers natural gas from 0.375 to 3.8 MM BTU per hour. Its totally enclosed, compact design allows provisions for sealed combustion or fresh air intake. Outside air can easily be connected to the blower inlet without any modifications to the burner. The optional low NOx Q series is capable of low NOx/CO emissions without FGR, providing flexibility, longevity and trouble free operation for the life of the burner.

Q Burner

Linkageless System standard for optimal control throughout the firing range

DC Pulse Width Modulation allows full blower speed control without the use of air dampers

Fully Enclosed Air Housing features a hinged cover for easy access to internal components and quiet operation

Combustion Air Fan efficient airfoil blade design smoothly lifts airflow over the entire blade, resulting in less motor horsepower requirements and significant noise reduction when compared to standard force draft fans

Sealed Combustion eliminates the need for outside air dampers and make-up air units typically required in every boiler room.

Low NOx Option allows the burner to meet most stringent NOx emission requirements.

UL & cUL listed

CSA Package listed

Uncontrolled Emissions Configuration

Burner Model	Q6-037	Q6-055	Q6-075	Q6-100	Q6-130	Q6-150	Q8-175	Q8-200	Q8-250	Q8-300	Q8-340	Q8-380
Gas Input (MBtu/hr)	375	550	750	1,000	1,250	1,500	1,750	2,000	2,500	3,000	3,400	3,800
BHP @ 80% Efficiency	9	13	18	24	30	36	42	48	60	71	81	90
Blower Motor HP	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4	1.5	2.0	2.5
Furnace Pressure (“w.c.)	1.0	1.0	1.0	1.0	1.0	0.75	1.0	1.0	0.75	2.0	1.8	1.6
Standard Gas Train Pipe Size (in.)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Min. Gas Pressure Required (“w.c.)	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	10.0
Air Inlet Orifice Size (in.)	1.25	1.50	1.80	2.25	2.95	-	3.45	3.80	-	-	-	-
Fresh Air Inlet Size (in.)	4.0	4.0	4.0	4.0	4.0	4.0	5.75	5.75	5.75	5.75	5.75	5.75
Shipping Weight	100	100	100	100	100	100	125	125	125	130	130	130

Input is based on fuel Btu content 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. Gas input is based on natural gas with 1,000 Btu/cu.ft. and 0.60 gravity. Consult factory for 50Hz. applications.

* For lower gas pressures please contact factory

HYDROGEN BLEND READY

*Can be used with a hydrogen blend up to a maximum of 20% H2. Wobbe index to be within 10% of NG. Supply pressure and gas valve sizing to be selected accordingly. For more information on hydrogen combustion please connect with Industrial Combustion or your local IC representative.

INDUSTRIAL COMBUSTION

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