

NOXmatic® Mini • Ultra Low NOx Burner

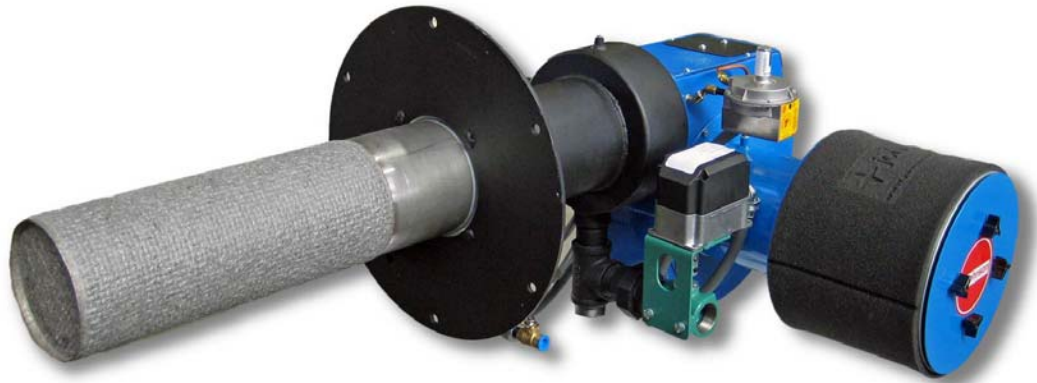


NOXmatic®
Mini

johnson burners

Ultra Low NOx Compliance Out Of The Box For Smaller Boilers

No FGR • Easy Installation • Fast Commissioning
Commercial Size • Industrial Grade Construction



Standard Equipment

- Heavy duty construction burner housing
- Ultra low NOx stainless steel fiber mat firing head
- Integral air blower with premium efficiency motor
- Air control damper with servo motor
- Gas-electric pilot system with pilot gas train
- Air filter with washable element and pre-filter sleeves
- Butterfly gas control valve with servo motor
- Main gas shutoff valves
- Main gas pressure regulator

State of the Art Controls

- NEMA 12 enclosure
- UL listed flame safeguard programmer
- Precise parallel-positioning linkage-less fuel-air ratio controller with position feedback
- Touchpad operator interface
- Annunciating lights for system status
- Cal Code lights for low water and high water
- Alarm horn and silencing switch

Optional Equipment

- Variable Frequency Drive (VFD) for air blower motor
- Linkage controls in lieu of linkage-less for 20 ppm NOx

System Specs

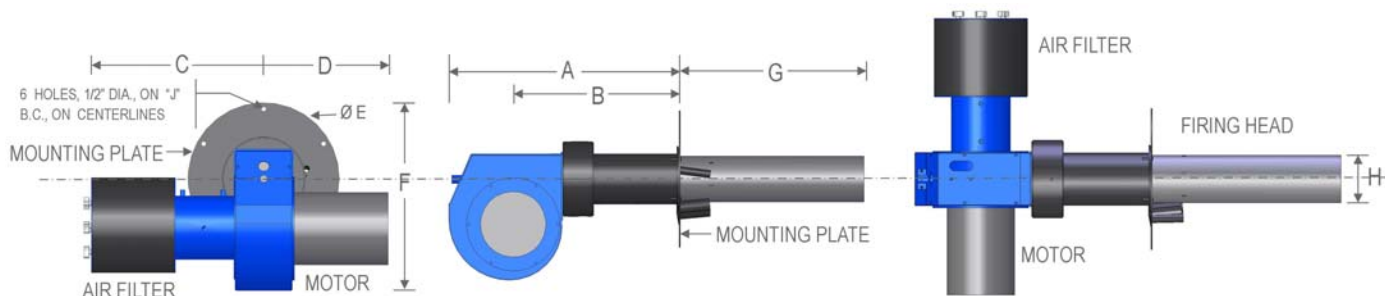
Capacities:	20 to 150 boiler HP
Fuels:	Natural Gas, LPG
Applications:	Scotch (firetube), Firebox, Flexitube, Watertube Boilers
Emissions:	9 ppm NOx with linkage-less controls 20 ppm NOx with linkage
Standards:	UL standard; CSD-1, IRI, FM, NFPA optional
Motor Voltage:	230V, 3 Ph, 60 Hz

Capacities and Specifications

Burner Size	Capacities ⁽¹⁾ Gas MBH	Boiler HP	Blower Motor HP ⁽²⁾	Emissions ⁽³⁾		
				NOx (ppmvd) with linkage-less controls	NOx (ppmvd) with linkage	CO (ppmvd)
NMM – 20	840	20	¾	9	20	50
NMM – 30	1,260	30	1	9	20	50
NMM – 40	1,680	40	1½	9	20	50
NMM – 50	2,100	50	1½	9	20	50
NMM – 60	2,520	60	2	9	20	50
NMM – 80	3,360	80	3	9	20	50
NMM – 100	4,200	100	5	9	20	50
NMM – 125	5,250	125	7½	9	20	50
NMM – 150	6,300	150	7½	9	20	50

- (1) Gas input based on 1,000 BTU/CF gas & 0.64 specific gravity. Boiler capacity based on 80% combustion efficiency. Burner capacity and blower motor HP rated for 0.75" w.c. furnace pressure at sea level and 60 cycle motor power.
 (2) Higher furnace pressure may require a larger burner size and motor HP requirements. Consult factory for job specific requirements.
 (3) Typical emissions corrected to 3% O₂ dry basis.

Dimensions (Inches)



BACK VIEW

SIDE VIEW

PLAN VIEW

Burner Size	A	B	C	D	E	F	G ⁽⁴⁾	H	J
20	21.63	13.0	24.15	13.32	12.63	19.38	16	4.13	11.63
30	21.63	13.0	24.15	13.32	12.63	19.38	23	6.0	16.25
40	21.63	13.0	24.15	13.32	12.63	19.38	23	6.0	16.25
50	30.38	22.0	20.25	13.32	17.75	22.0	25	6.0	16.25
60	43.5	33.1	26.84	14.36	20.0	27.4	28	8.0	18.0
80	43.5	33.1	26.84	14.36	20.0	27.4	28	8.0	18.0
100	43.5	33.1	26.84	16.0	20.0	27.4	32	8.0	18.0
125	43.5	33.1	28.5	16.0	24.0	29.2	32	8.0	22.0
150	43.5	33.1	28.5	16.0	24.0	29.2	37	8.0	22.0

- (1) All dimensions are subject to change without notice. Consult factory for current information.
 (2) Dimensions and specifications may change according to the application and emission targets.
 (3) Minimum firetube diameter shall be dimension "H" plus 12 inches.
 (4) Typical length. Actual length varies depending on boiler configuration.

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Your authorized S.T. Johnson distributor