

GAS, LIGHT & HEAVY OIL BURNER FOR Scotch Marine/Watertube Applications



S1 SERIES BURNER

Up to <9 PPM ULTRA LOW NO_x
37,800 - 63,000 MBTU/HR

FEATURES

- Natural gas, propane gas, air atomized #2 and #6 oil and combination gas/oil fuel options
- Standard Emissions, <30 PPM Low NOx, and <30 - <9 PPM Ultra Low NOx available
- Cam trim with 14-point range for consistent air/fuel ratios
- Advanced control options include Parallel Positioning, O₂ trim, variable speed drives and more
- Top or bottom FGR connection option (LNS1 Models Only)
- Low NOx with FGR capabilities (LNS1/NTS1 Models Only)
- Gas manifold on oil burners standard for easy upgrade to combination units
- Hinged rear door for easy access and maintenance
- Backward-curved impeller provides adequate combustion air for various furnace pressures
- Air atomizing low pressure oil nozzle (Steam atomization optional)

CAPACITIES AND SPECIFICATIONS

S1 Series

Burner Sizes	462	504	546	588	630
Gas Input (MBtu/hr)	46,200	50,400	54,600	58,800	63,000
Oil Input (US gph)	330	360	390	420	450
Boiler HP @80% Eff.	1,100	1,200	1,300	1,400	1,500
Blower Motor HP	50	60	75	75	100
Furnace Pressure ("W.C.)	8	8	8	8	8
Shipping Weight (lbs)	6,000	6,500	7,000	7,500	7,500

LNS1 Series

Burner Sizes	462	504	546	588	630	630
Gas Input (MBtu/hr)	42,000	46,200	50,400	54,600	58,800	63,000
Oil Input (US gph)	300	330	360	390	450	450
Boiler HP @80% Eff.	1,000	1,100	1,200	1,300	1,400	1,500
Blower Motor HP	50	60	100	100	125	125
Furnace Pressure ("W.C.)	8	8	8	8	8	8
Shipping Weight (lbs)	7,000	7,500	8,000	8,500	8,750	8,750

NTS1 Series

Burner Sizes	336	378	420	462	504	546	588	630
Gas Input (MBtu/hr)	33,600	37,700	41,800	46,000	50,200	54,400	58,600	63,000
Oil Input (US gph)	240	270	300	330	360	390	420	450
Boiler HP @80% Eff.	800	900	1,000	1,100	1,200	1,300	1,400	1,500
Blower Motor HP	50	50	60	75	100	100	100	125
Furnace Pressure ("W.C.)	8	8	8	8	8	8	8	8
Shipping Weight (lbs)	7,500	8,000	8,500	9,000	9,000	9,300	9,500	9,500

Notes:

1. Input is based on fuel Btu content, listed furnace pressure and altitude of 2,000 feet or less. Consult factory for higher altitudes.
2. Consult factory if furnace pressure exceeds listed value.
3. Gas input based on natural gas with 1,000 Btu/cu.ft. and 0.60 gravity.
4. Gas pressure based on zero furnace pressure. For total pressure at manifold, add furnace pressure.
5. Oil input based on 140,000 Btu/gal.
6. Consult factory for 50Hz. applications.



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