



**SERIES LN4S  
SCOTCH**

## Webster 30 PPM <sup>[1]</sup> Low Nox Burner Information

Boiler Size	Burner Model	Motor Horsepower <sup>[2]</sup>			Firing Sequence	Standard Flame Safeguard	Gas Train			FGR Line Size
	Gas and Gas/#2 Oil	Blower	Oil Pump	A/C	Gas and Gas/#2 Oil		Minimum Gas Pressure	Maximum Gas Pressure	Size	
LN4S-100	JBX2-*-50	5	NA	N/A	Full Mod	RM7840L/UV	1 psi	1 psi	2.5	6"
LN4S-125	JBX3-*-50	5	NA	N/A	Full Mod	RM7840L/UV	1 psi	1 psi	2.5	6"
LN4S-150	JBX3-*-75	7.5	NA	N/A	Full Mod	RM7840L/UV	1 psi	1 psi	3"	6"
LN4S-175	JBX3-*-76	7.5	NA	N/A	Full Mod	RM7840L/UV	1 psi	1 psi	3"	6"
LN4S-200	JBX3-*-100	10	NA	N/A	Full Mod	RM7840L/UV	2 psi	5 psi	3"	6"
LN4S-250	HDSX5-*-75A	7.5	NA	N/A	Full Mod	RM7840L/UV	2 psi	5 psi	3"	6"
LN4S-300	HDSX7-*-150A	15	1/3	2	Full Mod	RM7840L/UV	3 psi	7 psi	3"	6"
LN4S-350	HDSX7-*-200A	20	1/2	3	Full Mod	RM7840L/UV	3 psi	7 psi	3"	8"
LN4S-400	HDSX7-*-200B	20	1/2	3	Full Mod	RM7840L/UV	3 psi	7 psi	3"	8"
LN4S-500	HDSX7-*-300B	30	1/2	5	Full Mod	RM7840L/UV	3 psi	7 psi	3"	8"
LN4S-600	HDSX9-*-400B	40	1/2	5	Full Mod	RM7840L/UV	4 psi	7 psi	3"	10"
LN4S-700	HDSX9-*-500B	50	1/2	5	Full Mod	RM7840L/UV	5 psi	7 psi	3"	10"
LN4S-800	HDSX9-*-600B	60	1/2	7.5	Full Mod	RM7840L/UV	5 psi	7 psi	3"	10"

**Gas and Gas/#2Oil Firing Sequence**

ALL MODELS: FULL MODULATION WITH PROVEN LOW FIRE START, SYNCHRONIZED FUEL/AIR CONTROL WITH MODULATING MOTOR.

**NOTES:**

<sup>[1]</sup> EXPECTED EMISSIONS ARE 30 PPMVD OR LESS NO<sub>x</sub> (CORRECTED TO 3.0% O<sub>2</sub>) AND 400 PPMVD OR LESS CO (CORRECTED TO 3.0% O<sub>2</sub>) WHEN FIRING NATURAL GAS

<sup>[2]</sup> ALL BLOWER AND AIR COMPRESSOR MOTORS AVAILABLE 208-230-460/60/3, INDICATE JOBSITE ON ORDER. OIL PUMP MOTORS ARE 230/60/1; CONSULT FACTORY FOR OTHER VOLTAGES



**SERIES LN4S  
SCOTCH**

**Burner Equipment**

Equipment	Fuel	Description
Control Cabinet	Gas, Gas/#2 Oil	NEMA 1A with hinged door
Control Voltage Transformer	Gas, Gas/#2 Oil	Included
Motor Starter	Gas, Gas/#2 Oil	Magnetic starter with overload protection
Fusing	Gas, Gas/#2 Oil	Control circuit only
Ignition	Gas, Gas/#2 Oil	Gas/Electric pilot
Signal Lights	Gas, Gas/#2 Oil	(4) - power on, fuel valve open, call for heat, flame failure
Air Flow Safety Switch	Gas, Gas/#2 Oil	All Models
Gas Train	Gas, Gas/#2 Oil	UL gas train for minimum inlet pressure indicated on Burner Information table. Assembled, wired and mounted on unit consisting of the following: Manual shut off valve Gas pressure Regulator Manual leak test valve 100 & 125: Single Motorized Gas Valve with Proof of closure 150 & Larger: 2 Gas Valves Main Gas Valve: Motorized type Auxillary gas valve: Solenoid type High and Low gas pressure switches
Oil Pump	Gas/#2 Oil	Remote oil pump set with motor and accessories mounted on boiler skid
Oil Firing Type	Gas/#2 Oil	100 - 200: Pressure Atomizing 250 and larger: Air Atomizing
Pilot Gas Controls	Gas, Gas/#2 Oil	All models have gas/electric pilot, manual pilot shut-off valve, pilot gas pressure regulator and solenoid gas valve
Fuel Changeover	Gas/#2 Oil	Manual switch
Flue Gas Recirculation	Gas, Gas/#2 Oil	Induced flue gas recirculation, no external fan is required