



AMERICA'S BOILER COMPANY

**SERIES LN4S
SCOTCH**

Power Flame 30 PPM ^[1] Low Nox Burner Information

Boiler Size	Gas and Gas/#2 Oil	Motor Horsepower ^[2]			Firing Sequence	Standard Flame Safeguard	Gas Train			FGR Line Size
		Blower	Oil Pump	A/C	Gas and Gas/#2 Oil		Minimum Gas Pressure	Maximum Gas Pressure	Size	
LN4S-100	LNIC4-G/GO-30	3	1/2	N/A	Full Mod	RM7840L/UV	7.3" w.c.	14" w.c.	2"	6"
LN4S-125	LNIC4-G/GO-30	5	1/2	N/A	Full Mod	RM7840L/UV	9.9" w.c.	28" w.c.	2-1/2"	6"
LN4S-150	LNIC5-G/GO-30	7 1/2	1/2	N/A	Full Mod	RM7840L/UV	13.2" w.c.	28" w.c.	2-1/2"	8"
LN4S-175	LNIC6-G/GO-30	10	1/2	N/A	Full Mod	RM7840L/UV	9.9" w.c.	28" w.c.	3"	8"
LN4S-200	LNIC6-G/GO-30	10	1/2	N/A	Full Mod	RM7840L/UV	12.8" w.c.	28" w.c.	3"	8"
LN4S-250	LNICM9A-G/GO-30	5	1/2	5	Full Mod	RM7840L/UV	25.7" w.c.	10 psig	3"	8"
LN4S-300	LNICM9A-G/GO-30	5	1/2	5	Full Mod	RM7840L/UV	32.7" w.c.	10 psig	3"	10"
LN4S-350	LNICM9B-G/GO-30	7 1/2	1/2	5	Full Mod	RM7840L/UV	40.9" w.c.	10 psig	3"	10"
LN4S-400	LNICM10-G/GO-30	10	3/4	5	Full Mod	RM7840L/UV	63.0" w.c.	10 psig	3"	10"
LN4S-500	LNICM10B-G/GO-30	15	3/4	7 1/2	Full Mod	RM7840L/UV	91.0" w.c.	10 psig	3"	12"
LN4S-600	LNICM10C-G/GO-30	20	3/4	7 1/2	Full Mod	RM7840L/UV	90.0" w.c.	10 psig	3"	12"
LN4S-700	LNICM10C-G/GO-30	20	3/4	7 1/2	Full Mod	RM7840L/UV	94.0" w.c.	10 psig	3 3/4" (1)	12"
LN4S-800	LNICM11-G/GO-30	25	2	15	Full Mod	RM7840L/UV	74.8" w.c.	10 psig	3" HF	16"

Gas and Gas/#2 Oil Firing Sequence

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

FOOTNOTES:

(1) DUAL SIZE GAS TRAINS: LEAK TEST COCK, MAIN GAS VALVE AND AUXILIARY GAS VALVE ARE INDICATED BY THE FIRST NUMBER. GAS REGULATOR AND MAIN SHUTOFF COCK ARE INDICATED BY THE SECOND NUMBER.

NOTES:

^[1] EXPECTED EMISSIONS ARE 30 PPMVD OR LESS NOx (CORRECTED TO 3.0% O₂) AND 400 PPMVD OR LESS CO (CORRECTED TO 3.0% O₂) WHEN FIRING NATURAL GAS

^[2] 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



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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	Five (Power On, Main Fuel, Load Demand, FSG Alarm, Ignition On)
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: <ul style="list-style-type: none"> • 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