

Webster Burner Information

Boiler Size	Burner Model	Motor		Firing Sequence ^[1]	Standard UL Flame Safeguard			Gas Train		
		HP	Voltage		Gas	#2 Oil	Gas/#2 Oil	Size ^[2]	Min. Pres.	Max. Pres.
3-40	JB1-05	1/2	120/60/1	L-H-O LFS	RM7897C/UV	R7284U/UV	RM7897C/UV	1 1/2	8" w.c.	28" w.c.
3-50	JB1-07	3/4	120/60/1	L-H-O LFS	RM7897C/UV	R7284U/UV	RM7897C/UV	1 1/2	8" w.c.	28" w.c.
3-60	JB2-07	3/4	120/60/1	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	1 1/2	9" w.c.	28" w.c.
3-70	JB2-10	1	240/60/1	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	6" w.c.	28" w.c.
3-80	JB2-15	1 1/2	240/60/1	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	8" w.c.	28" w.c.
3-90	JB2-20*	2	230/460/3	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	7" w.c.	28" w.c.
3-100	JB2-30	3	230/460/3	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2 1/2	9" w.c.	28" w.c.
3-125	JB2-50	5	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	2 1/2	15" w.c.	28" w.c.
3-150	JB3-50	5	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	9" w.c.	28" w.c.
3-175	JB3-75	7 1/2	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	13" w.c.	28" w.c.
3-200	JB3-75	7 1/2	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	16" w.c.	28" w.c.
3-250	JB3-100	10	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	25" w.c.	28" w.c.
3-300	HDS5-50A	5	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	30" w.c.	10 psig
	HDRV5-75	7 1/2	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	1.3 psig	10 psig
3-350	HDS5-50A	5	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	30" w.c.	10 psig
	HDRV5-75	7 1/2	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	1.7 psig	10 psig
3-400	HDS5-75A	7 1/2	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	1.75 psig	10 psig
	HDRV5-100	10	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	2 1/2	2.2 psig	10 psig
3-500	HDS5-100B	10	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	2 1/2	2 psig	10 psig
	HDRV7-150	15	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	2 1/2	3.4 psig	10 psig
3-600	HDS5-100B	10	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	2 1/2	2 psig	10 psig
	HDRV7-200	20	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	2.3 psig	10 psig
3-700	HDS7-200B	20	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	3.25 psig	10 psig
	HDS7-250B	20	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	3.0 psig	10 psig
3-800	HDS7-300B	30	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	4.0 psig	10 psig
3-900	HDS9-400C	40	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	4.8 psig	10 psig
3-1000	HDS9-600C	60	230/460/3	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	6.0 psig	10 psig

[1] Explanation of Firing Sequences:

Gas and Gas Sequence on Combination Gas/Oil Boilers

L-H-O LFS Low fire start (not proven), high fire run, air control by linkage to motorized gas valve.

Full Mod Full modulation with proven low fire start, synchronized fuel/air control by modulating motor.

Oil and Oil Sequence on Combination Gas/Oil Boilers

On-Off LFS Low fire start (not proven), high fire, oil cylinder air control. Reduced input start with by-pass.

Full Mod Full modulation with proven low fire start, synchronized fuel/air control by modulating motor. With oil metering valve and oil pressure regulating valve.

[2] Gas trains for 400 hp and larger boilers are Siemens.

*Revised 8-23-19: JB2-20 was JB2-15



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Webster Burner Equipment

Equipment	Fuel	Description
Control Cabinet	Gas, #2 Oil, Gas/#2 Oil	NEMA 1A with hinged door; Remote shipped loose on models 3-300 to 3-800.
Control Voltage Transformer	Gas, #2 Oil, Gas/#2 Oil	Optional.
Motor Starter	Gas, #2 Oil, Gas/#2 Oil	Contactora with single phase motor, magnetic starter with overload protection with 3-phase motor.
Fusing	Gas, #2 Oil, Gas/#2 Oil	Control circuit only.
Ignition	Gas and Gas/#2 Oil	Gas/Electric pilot.
	#2 Oil	Direct spark (3-40 to 3-100). Gas/Electric (3-125 to 3-800).
Signal Lights	Gas, #2 Oil, Gas/#2 Oil	Two [power on and fuel on]; (3-40 to 3-250).
	Gas, #2 Oil, Gas/#2 Oil	Four [power on, fuel on, call for heat, and flame failure]; (3-300 to 3-800).
Air Flow Safety Switch	Gas, #2 Oil, Gas/#2 Oil	All models; Exception on oil models 3-40 to 3-125 with integral oil pump.
Gas Train	Gas and 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. <u>Automatic gas valve</u>: Diaphragm type with On-Off sequence. Motorized all others. (2) Safety gas valves. <u>Metering valve</u>: Models 3-200 to 3-800. <u>High and Low gas pressure switches</u>: Models 3-80 to 3-800. <u>Normally open valve</u>: Models 3-400 to 3-800.
Oil Pump	#2 Oil and Gas/#2 Oil	Integral with burner (3-40 to 3-125). Separate oil pump set with motor and accessories mounted on boiler skid (3-150 to 3-800).
Oil Pressure Gauge	#2 Oil and Gas/#2 Oil	All models.
Pilot Gas Controls	Gas, #2 Oil, Gas/#2 Oil	All units with gas/electric pilot have manual pilot shut-off valve, high gas pressure regulator and solenoid gas valve.
Fuel Changeover	Gas/#2 Oil	Manual switch.