

**Webster Burner Information**

**5.0 ratings**

Boiler Size	Burner Model	Motor		Firing Sequence <sup>[1]</sup>		Standard UL Flame Safeguard			Gas Train		
		HP	Voltage	Gas and Gas/#2 Oil	#2 Oil	Gas	#2 Oil	Gas/#2 Oil	Size <sup>[4]</sup>	Min. Pres.	Max. Pres.
4F-63	JB1-03	1/3 [2]	120/60/1	On-Off	On-Off	RM7897A/UV	R7184A/UV	RM7897C/UV	1	7" w.c.	14" w.c.
4F-78	JB1-03	1/3 [2]	120/60/1	On-Off	On-Off	RM7897A/UV	R7184A/UV	RM7897C/UV	1	7" w.c.	14" w.c.
4F-92	JB1-03	1/3 [2]	120/60/1	On-Off	On-Off	RM7897A/UV	R7184A/UV	RM7897C/UV	1	7" w.c.	14" w.c.
4F-107	JB1-03	1/3 [2]	120/60/1	On-Off	On-Off	RM7897A/UV	R7184A/UV	RM7897C/UV	1	7" w.c.	14" w.c.
4F-127	JB1-05	1/2	120/60/1	L-H-O LFS	On-Off	RM7897A/UV	R7184A/UV	RM7897C/UV	1 1/4	7" w.c.	14" w.c.
4F-154	JB1-05	1/2	120/60/1	L-H-O LFS	On-Off	RM7897A/UV	R7184A/UV	RM7897C/UV	1 1/2	7" w.c.	14" w.c.
4F-180	JB1-05	1/2	120/60/1	L-H-O LFS	On-Off	RM7897A/UV	R7184A/UV	RM7897C/UV	1 1/2	7" w.c.	14" w.c.
4F-209	JB1-07	3/4	120/60/1	L-H-O LFS	L-H-O LFS	RM7897A/UV	R7184A/UV	RM7897C/UV	2	7" w.c.	14" w.c.
4F-240	JB1-07	3/4	120/60/1	L-H-O LFS	L-H-O LFS	RM7897A/UV	R7184A/UV	RM7897C/UV	2	7" w.c.	14" w.c.
4F-277	JB1-07	3/4	120/60/1	L-H-O LFS	L-H-O LFS	RM7897A/UV	R7184A/UV	RM7897C/UV	2	7" w.c.	14" w.c.
4F-311	JB2-10	1	240/60/1	L-H-O LFS	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	7" w.c.	28" w.c.
4F-345 <sup>[3]</sup>	JB2-10	1	240/60/1	L-H-O LFS	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	9" w.c.	28" w.c.
4F-360 <sup>[3]</sup>	JB2-10	1	240/60/1	L-H-O LFS	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	9" w.c.	28" w.c.
4F-450 <sup>[3]</sup>	JB2-10	1	240/60/1	L-H-O LFS	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	9" w.c.	28" w.c.
4F-563 <sup>[3]</sup>	JB2-20	2	230/460/3	L-H-O LFS	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2 1/2	9" w.c.	28" w.c.
4F-675	JB2-50	5	230/460/3	L-H-O LFS	L-H-O LFS	RM7897C/UV	RM7897C/UV	RM7897C/UV	2 1/2	9" w.c.	28" w.c.
4F-827	JB3-50	5	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	14" w.c.	28" w.c.
4F-993	JB3-75	7 1/2	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	27" w.c.	42" w.c.
4F-1157	JB3-75	7 1/2	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	27" w.c.	42" w.c.
4F-1323	JB3-100	10	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3H	27" w.c.	42" w.c.
4F-1654	HDRV5-75	7 1/2	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3		
4F-1985	HDRV7-100	10	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3		
4F-2315	HDRV7-150	15	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3		
4F-2645	HDRV7-200	20	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3		
4F-3075	HDRV7-200	20	230/460/3	Full Mod	Full Mod	RM7840L/UV	RM7840L/UV	RM7840L/UV	3		

[1] Explanation of Firing Sequences:

**Gas and Gas Sequence on Combination Gas/Oil Boilers**

On-Off Fixed fire with slow opening gas valve, fixed air.

On-Off LFS Low fire start (not proven), high fire run, Lo-Hi-Off gas valve, air control by linkage from 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 On-Off fixed fire, fix air.

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 is 1/3 hp and Oil & Combination Gas/Oil is 1/2 hp

[3] Burner model changes on firing Oil and Combination Gas/Oil:

4F-345 thru 450: JB2-15 which has a 1.5 hp motor and 230/460/3 voltage

4F-563: JB2-30 which has a 3 hp motor

[4] Gas trains for models 1654 and larger boilers are Siemens.

**Webster Burner Equipment**

Equipment	Fuel	Description
Control Cabinet	Gas, #2 Oil, Gas/#2 Oil	NEMA 1A with hinged door.
Control Voltage Transformer	Gas, #2 Oil, Gas/#2 Oil	Included when burner voltage is greater than 120/60/1.
Motor Starter	Gas, #2 Oil, Gas/#2 Oil	Contacting 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.
Signal Lights	#2 Oil	Direct spark (4F-63 to 4F-450).
	Gas, #2 Oil, Gas/#2 Oil	Gas/Electric (4F-563 and larger).
Air Flow Safety Switch	Gas, #2 Oil, Gas/#2 Oil	Two [power on and fuel on].
	Gas	All models; Exception on #2 oil models 4F-63 to 4F-450 with integral oil pump.
Gas Train	#2 Oil and Gas/#2 Oil	Models 4F-675 and larger.
	Gas and Gas/#2 Oil	UL gas train for minimum inlet pressure indicated on Burner Information table. Shipped unassembled and consisting of the following: 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 (Proof of closure on 4F-675 and larger). <u>Safety gas valve:</u> Solenoid type. <u>Metering valve:</u> 4F-675 and larger. <u>High and Low gas pressure switches:</u> 4F-311 and larger.
Oil Pump	#2 Oil and Gas/#2 Oil	Integral with burner (4F-63 to 4F-450). Separate oil pump set with motor and accessories mounted on boiler skid (4F-563 and larger).
Oil Pressure Gauge	#2 Oil and Gas/#2 Oil	All models.
Pilot Gas Controls	Gas, #2 Oil, Gas/#2 Oil	All models 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.