



BURNER SPEC & DATA SHEET

SERIES LC™ & SERIES LCE™ **WEBSTER MODEL “JB” BURNER** **FOR GAS, LIGHT OIL, AND GAS/LIGHT OIL**

STANDARD EQUIPMENT

1. Burner mounted control panel including on/off control switch, control circuit fuse, power-on, fuel-on, call for heat, and flame failure lights and terminal strip.
2. Air flow safety switch on gas and gas/oil burners. Optional on oil.
3. Spark ignited gas pilot on gas and gas/oil burners. Direct spark ignition on oil.
4. Manual fuel changeover switch on gas/oil burners.

OPTIONAL EQUIPMENT

1. Air flow safety switch on oil burners.
2. Step-down control circuit transformer.
3. Automatic fuel changeover on gas/oil burners.
4. Proven low fire start for L and H control systems.
5. Controls to comply with FM, IRI and other codes. Contact your local Peerless® Representative or PB Heat, LLC for availability.
6. Various combustion controls. Contact your local Peerless® Representative or PB Heat, LLC for availability.
7. Burner motor voltages: 120/60/1 (LCE-13 thru 20), 240/60/1 (LC-04 thru 12, LCE-19 thru 20), 208/230/460/60/3 (LC-04 thru LCE-18).

Standard Gas Control Systems:

- A - On-off operation with single position air.
- L - Low-high-off operation with low fire start and two position air.

Standard Oil Control Systems:

- ALFS - On-off operation with low fire start and single position air.
- L - Low-high-off operation with low fire start and two position air.
- M - Full modulation with proven low fire start. Requires proportional controller.

Optional Gas Control Systems:

- H - Low-high-low operation with low fire start and two position air. Requires SPST controller.
- M - Full modulation with proven low fire start. Requires proportional controller.

Optional Oil Control Systems:

- H - Low-high-low operation with low fire start and two position air. Requires SPST controller.
- MP - Full modulation with proven low fire start. Required proportional controller.

WEBSTER MODEL "JB" BURNER FOR GAS, LIGHT OIL, AND GAS/LIGHT OIL

BOILER MODEL	I=B=R INPUT (1)		OVERFIRE PRESSURE IN. W.C. (2)	STANDARD BURNER MODEL		
	GAS MBH	OIL GPH		GAS	OIL	GAS/OIL
LC-04	686	4.75	+0.22	JB1G-03	JB1O-03	JB1C-03
LC-05R	808	6.10	+0.22	JB1G-03	JB1O-03	JB1C-03
LC-05	881	6.10	+0.24	JB1G-03	JB1O-03	JB1C-03
LC-06	1,077	7.50	+0.26	JB1G-03	JB1O-03	JB1C-03
LC-07	1,273	8.80	+0.27	JB1G-03	JB1O-03	JB1C-03
LC-08	1,469	10.20	+0.28	JB1G-03	JB1O-05	JB1C-05
LC-09	1,664	11.60	+0.29	JB1G-05	JB1O-05	JB1C-05
LC-10	1,860	12.80	+0.30	JB1G-05	JB1O-07	JB1C-07
LC-11	2,056	14.20	+0.31	JB1G-07	JB1O-07	JB1C-07
LC-12	2,252	15.60	+0.32	JB1G-07	JB1O-07	JB1C-07
LCE-13	2,464	17.00	+0.24	JB2G-10	JB2O-10	JB2C-10
LCE-14	2,657	18.40	+0.25	JB2G-10	JB2O-10	JB2C-10
LCE-15	2,850	19.80	+0.26	JB2G-10	JB2O-10	JB2C-10
LCE-16	3,043	21.00	+0.27	JB2G-10	JB2O-10	JB2C-10
LCE-17	3,236	22.50	+0.28	JB2G-10	JB2O-10	JB2C-10
LCE-18	3,429	24.00	+0.29	JB2G-10	JB2O-10	JB2C-10
LCE-19	3,622	25.00	+0.30	JB2G-15	JB2O-15	JB2C-15
LCE-20	3,815	26.50	+0.31	JB2G-15	JB2O-15	JB2C-15
LCE-21	4,027	28.00	+0.31	JB2G-30	JB2O-30	JB2C-30
LCE-22	4,239	29.50	+0.31	JB2G-30	JB2O-30	JB2C-30
LCE-23	4,451	31.00	+0.32	JB2G-30	JB2O-30	JB2C-30
LCE-24	4,663	32.50	+0.32	JB2G-30	JB2O-30	JB2C-30

(1) Based on No. 2 fuel oil with a heating value of 140,000 BTU/gal. and Natural Gas with a heating value of 1000 BTU per cu. ft., 0.60 specific gravity at a maximum altitude of 2000 ft. Consult factory for higher altitudes.

(2) With + 0.10" W.C. at flue outlet when firing at I=B=R Input.

WEBSTER MODEL "JB" BURNER FOR GAS, LIGHT OIL, AND GAS/LIGHT OIL

BOILER MODEL	STANDARD GAS TRAIN			INITIAL AIR SETTINGS (3)	
	INCHES IPS	PRESSURE - IN. W.C.		LOW FIRE	HIGH FIRE
		MIN.	MAX.		
LC-04	1	2.1	28	1/8"	1/2"
LC-05R	1 1/4	2.7	28	1/8"	11/16"
LC-05	1 1/4	2.7	28	1/8"	1/2"
LC-06	1 1/4	4.1	28	1/8"	7/8"
LC-07	1 1/4	6.0	28	1/8"	1"
LC-08	1 1/2	6.3	28	1/8"	1 1/8"
LC-09	2 1/2	6.8	28	1/4"	1"
LC-10	2 1/2	4.8	28	1/4"	1"
LC-11	2 1/2	5.9	28	3/16"	1 1/8"
LC-12	2 1/2	5.0	28	3/16"	1 11/16"
LCE-13	2 1/2	5.7	28	15/16"	1 1/8"
LCE-14	2 1/2	6.7	28	7/8"	1 1/4"
LCE-15	2	5.3	28	1 1/16"	1 3/8"
LCE-16	2	6.0	28	1 1/16"	1 1/2"
LCE-17	2	6.8	28	7/8"	1 1/4"
LCE-18	2 1/2	6.0	28	1"	1 3/8"
LCE-19	2 1/2	6.7	28	1"	1 3/8"
LCE-20	2 1/2	7.7	28	1"	1 5/8"
LCE-21	2 1/2	7.7	28	1 1/8"	1 7/8"
LCE-22	2 1/2	8.6	28	1 1/8"	2 1/8"
LCE-23	2 1/2	9.5	28	1 1/4"	2 1/4"
LCE-24	2 1/2	8.0	28	1 1/4"	2 3/8"

(3) Start-up settings only. Final settings must be determined using combustion test equipment.

BOILER MODEL	STANDARD COMBUSTION CONTROL			STANDARD CONTROL SYSTEM		3450 RPM MOTOR HP		STANDARD MOTOR VOLTAGE (4)
	GAS	OIL	GAS/OIL	GAS	OIL	GAS	OIL	
LC-04	RM7897A	R7184A	RM7897C	A	ALFS	1/3	1/3	120/60/1
LC-05R	RM7897A	R7184A	RM7897C	A	ALFS	1/3	1/3	120/60/1
LC-05	RM7897A	R7184A	RM7897C	A	ALFS	1/3	1/3	120/60/1
LC-06	RM7897A	R7184A	RM7897C	A	ALFS	1/3	1/3	120/60/1
LC-07	RM7897A	R7184A	RM7897C	L	L	1/3	1/3	120/60/1
LC-08	RM7897A	R7184A	RM7897C	L	L	1/3	1/2	120/60/1
LC-09	RM7897A	R7184A	RM7897C	L	L	1/2	1/2	120/60/1
LC-10	RM7897A	R7184A	RM7897C	L	L	1/2	3/4	120/60/1
LC-11	RM7897A	R7184A	RM7897C	L	L	3/4	3/4	120/60/1
LC-12	RM7897A	R7184A	RM7897C	L	L	3/4	3/4	120/60/1
LCE-13	RM7897C	RM7897C	RM7897C	L	L	1	1	240/60/1
LCE-14	RM7897C	RM7897C	RM7897C	L	L	1	1	240/60/1
LCE-15	RM7897C	RM7897C	RM7897C	L	L	1	1	240/60/1
LCE-16	RM7897C	RM7897C	RM7897C	L	L	1	1	240/60/1
LCE-17	RM7897C	RM7897C	RM7897C	L	L	1	1	240/60/1
LCE-18	RM7897C	RM7897C	RM7897C	L	L	1	1	240/60/1
LCE-19	RM7897C	RM7897C	RM7897C	L	L	1 1/2	1 1/2	3 Phase
LCE-20	RM7897C	RM7897C	RM7897C	L	L	1 1/2	1 1/2	3 Phase
LCE-21	RM7897C	RM7897C	RM7897C	L	L	3	3	3 Phase
LCE-22	RM7897C	RM7897C	RM7897C	L	L	3	3	3 Phase
LCE-23	RM7897C	RM7897C	RM7897C	L	L	3	3	3 Phase
LCE-24	RM7897C	RM7897C	RM7897C	L	L	3	3	3 Phase

(4) For 3 phase, specify 208/60/3, 230/60/3 or 460/60/3.

BOILER MODEL	NOZZLES - DELAVAN			OIL PRESSURE - PSIG		STANDARD FUEL UNIT	
	QTY	GPH	PATTERN	LOW FIRE	HIGH FIRE	WEBSTER	GEARSET GPH (5)
LC-04	1	4.00	60 B	N/A	145	22R220D	45
LC-05R	1	4.00	60 B	N/A	200	22R220D	45
LC-05	1	4.00	45 B	N/A	240	22R220D	45
LC-06	1	4.50	45 B	100	280	22R220D	45
LC-07	1	5.50	45 B	100	260	22R220D	45
LC-08	1	6.00	60 B	100	290	22R220D	45
LC-09	2	3.50	60 B	100	275	22R220D	45
LC-10	2	3.75	60 B	100	290	22R220D	45
LC-11	2	4.25	60 B	100	285	22R220D	45
LC-12	2	4.50	60 B	100	305	22R220D	45
LCE-13	2	5.00	45 B	100	290	22R221D	70
LCE-14	2	5.50	45 B	100	280	22R221D	70
LCE-15	2	6.00	45 B	100	275	22R221D	70
LCE-16	2	6.00	45 B	100	300	22R221D	70
LCE-17	2	6.50	45 B	100	300	22R221D	70
LCE-18	2	7.00	45 B	100	295	22R221D	70
LCE-19	2	7.50	45 B	100	280	22R322D	105
LCE-20	2	8.00	45 B	100	275	22R322D	105
LCE-21	2	8.00	45 B	100	300	22R322D	REMOTE PUMP
LCE-22	2	8.50	45 B	100	300	22R322D	REMOTE PUMP
LCE-23	2	9.00	45 B	100	295	22R322D	REMOTE PUMP
LCE-24	2	10.00	45 B	100	270	22R322D	REMOTE PUMP

(5) For sizing filters, piping and remote pump sets. Not a U.L. nozzle rating.

PB HEAT, LLC

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