



# BURNER SPEC & DATA SHEET

## **LC/LCE™ SERIES** **CARLIN MODEL “CRD/FFD” BURNERS** **FOR LIGHT OIL**

### STANDARD EQUIPMENT

#### **301CRD Burner:**

1. On-off operation with single position air.
2. Oil solenoid valve.
3. Cad cell flame detector.
4. 10 sec. pre-purge.

#### **702CRD Burner:**

1. Low-high-off operation with two position air control. Low-high-low operation is optional with addition of SPST controller.
2. Low fire hold switch.
3. Cad cell flame detector.
4. 10 sec. pre-purge.
5. Optional motor voltage: 230/60/1.

#### **801CRD, 1050FFD and 1150FFD Burners:**

1. Low-high-off operation with two position air control. Low-high-low operation is optional with addition of SPST controller.
2. Low fire hold switch.
3. Cad cell flame detector (801CRD).
4. Ultraviolet flame detector (1050FFD/1150FFD).
5. 10 sec. pre-purge (801CRD).
6. 30 sec. pre-purge and 15 sec. post-purge timing (1050FFD/1150FFD).
7. Diaphragm air flow switch (1050FFD over 20 GPH and 1150FFD).
8. Optional motor voltages: 120/60/1, 208/60/3, 230/60/3, 460/60/3.

### OPTIONAL EQUIPMENT

1. Control panel, burner or remote mounted, with on/off control switch, circuit breaker (for control circuit) and terminal strip. Also available are indicator lights, alarm bell, and step-down control circuit transformer.
2. Diaphragm air flow switch (301CRD, 702CRD, 801CRD, 1050FFD under 20 GPH).
3. Various combustion controls. Contact your local Peerless® Representative or Peerless® Boilers for availability.

**CARLIN MODEL "CRD/FFD" BURNER FOR LIGHT OIL**

BOILER MODEL	I=B=R INPUT GPH (1)	OVERFIRE PRESSURE IN. W.C. (2)	BURNER MODEL	STANDARD COMBUSTION CONTROL	3450 RPM MOTOR HP	STANDARD MOTOR VOLTAGE	INITIAL SETTINGS (4)	
							HEAD	AIR SHUTTER
LC-04	4.75	+0.22	301CRD	CCT-60200	1/4	120/60/1	3/8"	75% (3)
LC-05R	5.60	+0.22	301CRD	CCT-60200	1/4	120/60/1	7/16"	80% (3)
LC-05	6.10	+0.24	702CRD	CCT-60200	1/2	120/60/1	3/16"	5/16"
LC-06	7.50	+0.26	702CRD	CCT-60200	1/2	120/60/1	3/8"	1/2"
LC-07	8.80	+0.27	702CRD	CCT-60200	1/2	120/60/1	1/2"	1/2"
LC-08	10.20	+0.28	702CRD	CCT-60200	1/2	120/60/1	1"	9/16"
LC-09	11.60	+0.29	801CRD	CCT-60200	3/4	230/60/1	1/4"	0
LC-10	12.80	+0.30	801CRD	CCT-60200	3/4	230/60/1	1/2"	1/4"
LC-11	14.20	+0.31	801CRD	CCT-60200	3/4	230/60/1	3/4"	1/8"
LC-12	15.60	+0.32	801CRD	CCT-60200	3/4	230/60/1	1"	1/4"
LCE-13	17.00	+0.24	801CRD	CCT-60200	3/4	230/60/1	1 1/16"	1/2"
LCE-14	18.40	+0.25	801CRD	CCT-60200	3/4	230/60/1	1 1/8"	1/2"
LCE-15	19.80	+0.26	1050FFD	RM7840L	1	230/60/1	7/8"	3/8"
LCE-16	21.00	+0.27	1050FFD	RM7840L	1	230/60/1	1"	3/8"
LCE-17	22.50	+0.28	1150FFD	RM7840L	1 1/2	230/60/1	1/8"	3/8"
LCE-18	24.00	+0.29	1150FFD	RM7840L	1 1/2	230/60/1	1/4"	3/8"
LCE-19	25.00	+0.30	1150FFD	RM7840L	1 1/2	230/60/1	3/8"	3/8"
LCE-20	26.50	+0.31	1150FFD	RM7840L	1 1/2	230/60/1	1/2"	1/2"
LCE-21	28.00	+0.31	1150FFD	RM7840L	1 1/2	230/60/1	5/8"	7/16"
LCE-22	29.50	+0.31	1150FFD	RM7840L	1 1/2	230/60/1	3/4"	3/8"
LCE-23	31.50	+0.32	1150FFD	RM7840L	1 1/2	230/60/1	1"	3/8"

(1) Based on No. 2 fuel oil with a heating value of 140,000 BTU/gal. 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.

(3) Air band setting.

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

BOILER MODEL	NOZZLES - HAGO			OIL PRESSURE - PSIG		STANDARD FUEL UNIT	
	QTY	GPH	PATTERN	LOW FIRE	HIGH FIRE	SUNTEC	GEARSET GPH (5)
LC-04	1	4.00	60 SS	—	140	B2YA-8916	20
LC-05R	1	4.50	60 SS	—	150	B2YA-8916	20
LC-05	1	3.50	45 P	100	300	B2TA-8851	33
LC-06	1	4.50	45 P	100	280	B2TA-8851	33
LC-07	1	5.00	45 P	100	300	B2TA-8851	33
LC-08	1	6.00	45 P	100	280	B2TA-8851	33
LC-09	2	5.50/4.00	45 H	150	150	B2TA-8260	61
LC-10	2	6.00/4.50	45 H	150	150	B2TA-8260	61
LC-11	2	6.00/5.50	45 H	150	150	B2TA-8260	61
LC-12	2	6.50/6.00	45 H	150	150	B2TA-8260	61
LCE-13	2	6.50/7.00	45 H	150	150	B2TA-8260	61
LCE-14	2	6.50/8.50	45 H	150	150	B2TA-8260	61
LCE-15	3	(1)10.00/(2)5.00	45 SS	100	100	H5PB-100	79
LCE-16	3	(1)10.00/(2)5.50	45 SS	100	100	H5PB-100	79
LCE-17	3	(1)11.00/(2)5.50	45 SS	100	100	H5PB-100	79
LCE-18	3	(1)12.00/(2)6.00	45 SS	100	100	H5PB-100	79
LCE-19	3	(1)12.00/(2)6.50	45 SS	100	100	H5PB-100	79
LCE-20	3	(1)13.00/(2)6.50	45 SS	100	100	H5PB-100	79
LCE-21	3	(1)13.00/(2)7.50	45 SS	100	100	H5PB-100	79
LCE-22	3	(1)13.00/(2)8.00	45 SS	100	100	H5PB-100	79
LCE-23	3	(1)14.00/(2)8.50	45 SS	100	100	H5PB-100	79

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

**PB HEAT, LLC**

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