



# BURNER SPEC & DATA SHEET

## **SERIES TCII™** **CARLIN MODEL “CRD/FFD” BURNERS** **FOR OIL**

### STANDARD EQUIPMENT

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

1. Lo-Hi-Off operation with two-position air control.
2. Low fire hold switch.
3. Cadmium cell flame detector.
4. 30 second pre-purge/30 second post-purge.
5. 115 Volt/1 Phase/60 Hertz Voltage.

#### **801CRD Burner:**

1. Lo-Hi-Off operation with two-position air control.
2. Low fire hold switch.
3. Cadmium cell flame detector.
4. 30 second pre-purge/30 second post-purge.
5. 230 Volt/1 Phase/60 Hertz Voltage.

#### **1050FFD Burners:**

1. Lo-Hi-Off operation with two-position air control.
2. Low fire hold switch.
3. Cadmium cell flame detector on Model TCII-09.
4. 30 second pre-purge/30 second post-purge on Model TCII-09.
5. Ultraviolet flame detector on Model TCII-10.
6. 30 second pre-purge/15 second post-purge on Model TCII-10.
7. Air flow switch on Model TCII-10.

#### **1150FFD Burners:**

1. Lo-Hi-Off operation with two-position air control.
2. Low fire hold switch.
3. Ultraviolet flame detector.
4. 30 second pre-purge/15 second post-purge.
5. Air flow switch.

### OPTIONAL EQUIPMENT

1. Control panel, burner or remote mounted with on/off switch, control circuit breaker (for control circuit) and terminal strip. Also available are indicator lights, alarm bell, and step-down control circuit transformer.
2. Lo-Hi- Lo burner operation.
3. Diaphragm air flow switch (702CRD, 801CRD, 1050FFD under 25 GPH).
4. Various combustion controls. Contact your local Peerless® Representative or PB Heat, LLC for availability.

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

BOILER MODEL	INPUT GPH (1)	OVERFIRE PRESSURE IN. W.C. (2)	BURNER MODEL	STANDARD COMBUSTION CONTROL	3450 RPM MOTOR HP	STANDARD MOTOR VOLTAGE VOLTS/PHASE/HERTZ	INITIAL SETTINGS (3)	
							HEAD	AIR SHUTTER
TCII-04	7.9	0.36	702CRD	CCT-60200	1/2	115/1/60	7/16"	5/8"
TCII-05	10.2	0.59	702CRD	CCT-60200	1/2	115/1/60	1-1/4"	15/16"
TCII-06	12.2	0.82	801CRD	CCT-60200	3/4	230/1/60	1/2"	11/16"
TCII-07	14.4	0.46	801CRD	CCT-60200	3/4	230/1/60	5/8"	3/4"
TCII-08	16.6	0.61	801CRD	CCT-60200	3/4	230/1/60	1"	7/8"
TCII-09	17.8	0.45	1050FFD	CCT-60200	1	230/1/60	7/8"	1/2"
TCII-10	21.0	0.60	1050FFD	RM7840L	1	230/1/60	3/4"	1/4"
TCII-11	23.0	0.55	1150FFD	RM7840L	1-1/2	230/1/60	1/8"	3/4"
TCII-12	25.5	0.61	1150FFD	RM7840L	1-1/2	230/1/60	7/16"	5/8"
TCII-13	27.5	0.62	1150FFD	RM7840L	1-1/2	230/1/60	11/16"	7/8"
TCII-14	29.5	0.69	1150FFD	RM7840L	1-1/2	230/1/60	1"	7/8"
TCII-15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TCII-16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TCII-17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TCII-18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) Based on Commercial Standard Number 2 fuel oil with a heating value of 140,000 BTU/gal. at a maximum altitude of 2000 feet. Consult factory for higher altitudes.

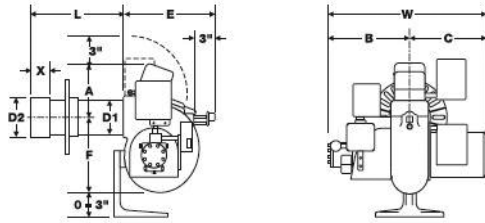
(2) With 0.10 inch W.C. at flue outlet when firing at Rated Input.

(3) Start-up settings only. Final settings are to be determined using combustion analysis equipment.

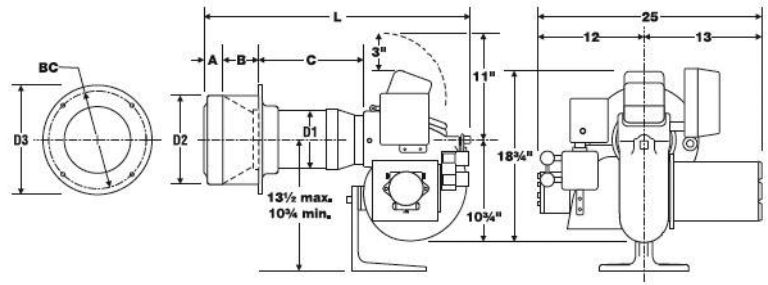
BOILER MODEL	NOZZLES - HAGO			OIL PRESSURE - PSIG		STANDARD FUEL UNIT	
	QTY	(No.) GPH	PATTERN	LOW FIRE	HIGH FIRE	SUNTEC	GEARSET GPH (4)
TCII-04	1	(1) 4.5	45 B	100	300	B2TA-8851	33
TCII-05	1	(1) 5.5	45 H	100	300	B2TA-8851	33
TCII-06	2	(1) 5.5/(1) 4.5	45 H	150	150	B2TA-8260	39
TCII-07	2	(1) 6.0/(1) 5.5	45 H	150	150	B2TA-8260	39
TCII-08	2	(2) 6.5	45 H	150	150	B2TA-8260	39
TCII-09	3	(1) 9.0/(1) 5.0 (1) 4.5	45 SS	100	100	J4PB-B1000G	46
TCII-10	3	(1) 9.0/(2) 6.0	45 SS	100	100	J4PB-B1000G	46
TCII-11	3	(1) 11.0/(2) 6.0 (1)	45 SS	100	100	J4PB-B1000G	46
TCII-12	3	12.0/(2) 6.5	45 SS	100	100	J4PB-B1000G	46
TCII-13	3	(1) 13.0/(2) 7.0	45 SS	100	100	J4PB-B1000G	46
TCII-14	3	(1) 14.0/(2) 7.5	45 SS	100	100	J4PB-B1000G	46
TCII-15	—	—	—	—	—	—	—
TCII-16	—	—	—	—	—	—	—
TCII-17	—	—	—	—	—	—	—
TCII-18	—	—	—	—	—	—	—

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

**702CRD 801 CRD**



**1050FFD 1150FFD**



BURNER MODEL	DIMENSIONS, INCHES													
	A	B	C	D1	D2	E	F	G1	G2	L	T1	T2	W	X
702CRD	7-1/2"	9-1/2"	10"	4-1/8"	5-7/8"	13"	9"	8-1/2"	11"	10-3/4" to 14-3/4"	1-1/2"	2-3/8"	19-1/2"	2-1/2"
801CRD	8"	12"	11"	5-1/4"	5-7/8"	14-1/2"	10-1/2"	8-1/2"	11"	10" to 15"	1-1/2"	2-1/2"	23"	3"

BURNER MODEL	DIMENSIONS, INCHES									
	A	B	BC	C	D1	D2	D3	D4	L	
1050FFD	1-5/8"	4" to 5"	10"	11-1/2" to 7-1/2"	5-1/4"	8-5/8"	9"	9"	31-1/4"	
1150FFD	1-5/8"	4" to 5"	10"	11-1/2" to 7-1/2"	5-1/4"	8-5/8"	9"	9"	31-1/4"	

**PB HEAT, LLC**

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