



# BURNER SPEC & DATA SHEET

## **SC/SCT™ SERIES** **CARLIN MODEL “GAS” AND “CRD” BURNER** **FOR GAS AND LIGHT OIL**

### STANDARD EQUIPMENT

#### **301GAS Gas-Fired Burners:**

1. 60200FR microprocessor control with flame signal test jack.
2. Direct spark ignition.
3. Flame rod flame detector.
4. Low and high gas pressure switches.
5. Air flow safety switch.

#### **201CRD and 301CRD Oil-Fired Burners:**

1. On-off operation with single position air.
2. Cad cell flame detector.
3. Solenoid oil valve.

### OPTIONAL EQUIPMENT

1. Control panel, burner or remote mounted, with on/off control switch, circuit breaker (for control circuit), power-on and main fuel lights and terminal strip. Also available are additional indicator lights, control circuit fuse, alarm bell and step-down control circuit transformer.
2. Controls to comply with FM, IRI and other codes. Contact your local Peerless® Representative or Peerless® Boilers for availability.

#### **Standard Control Systems:**

- O-O – On-off operation with one position air.

**CARLIN MODEL "GAS" AND "CRD" BURNER FOR GAS AND LIGHT OIL**

BOILER MODEL	I=B=R INPUT		OVERFIRE PRESSURE IN. W.C. (3)	STANDARD BURNER MODEL	
	GAS MBH (1)	OIL GPH (2)		GAS	OIL
SC/SCT-05	433	3.00	+0.20	301GAS	201CRD
SC/SCT-06	506	3.50	+0.20	301GAS	201CRD
SC/SCT-07	577	4.00	+0.20	301GAS	201CRD
SC/SCT-08	649	4.50	+0.20	301GAS	201CRD
SC/SCT-09	722	5.00	+0.20	301GAS	201CRD
SC/SCT-10	794	5.50	+0.20	301GAS	301CRD

(1) Based on Natural Gas with heating value of 1,000 BTU per cu. ft., 0.60 specific gravity at a maximum altitude of 2000 ft. Consult factory for higher altitudes.

(2) 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.

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

BOILER MODEL	STANDARD COMBUSTION CONTROL		STANDARD CONTROL SYSTEM	3450 RPM MOTOR HP		STANDARD MOTOR VOLTAGE
	GAS	OIL		GAS	OIL	
SC/SCT-05	60200-02FR	CCT-60200	O-O	1/6	1/4	120/60/1
SC/SCT-06	60200-02FR	CCT-60200	O-O	1/6	1/4	120/60/1
SC/SCT-07	60200-02FR	CCT-60200	O-O	1/6	1/4	120/60/1
SC/SCT-08	60200-02FR	CCT-60200	O-O	1/6	1/4	120/60/1
SC/SCT-09	60200-02FR	CCT-60200	O-O	1/6	1/4	120/60/1
SC/SCT-10	60200-02FR	CCT-60200	O-O	1/6	1/4	120/60/1

**CARLIN MODEL "GAS" BURNER FOR GAS-FIRED BOILERS**

BOILER MODEL	STANDARD GAS CONTROL TRAIN			NAT. GAS ORIFICE DRILL SIZE	INITIAL AIR BAND SETTINGS (5)		PROPANE ORIFICE SIZE
	INCHES IPS	PRESSURE-INCHES W.C.			NAT.	LP	
		MIN. (4)	MAX.				
SC/SCT-05	1"	5.0	14	29/64"	30%	35%	3/8"
SC/SCT-06	1"	5.0	14	1/2"	50%	65%	13/32"
SC/SCT-07	1"	5.0	14	35/64"	40%	50%	7/16"
SC/SCT-08	1"	5.0	14	19/32"	60%	65%	29/64"
SC/SCT-09	1"	5.0	14	19/32"	40%	50%	15/32"
SC/SCT-10	1"	5.0	14	21/32"	55%	65%	1/2"

(4) Low incoming gas trains available.

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

**CARLIN MODEL "CRD" BURNER FOR OIL-FIRED BOILERS**

BOILER MODEL	NOZZLES B = DELAVAN SS = HAGO			HEAD SETTING	AIR BAND (5)	PUMP PRESSURE PSIG	STANDARD FUEL UNIT	
	QTY	GPH	PATTERN				SUNTEC	GEARSET GPH (6)
SC/SCT-06	1	3.00	60 B	1/2"	75%	140	B2YA-8916	20
SC/SCT-07	1	3.25	45 SS	5/8"	80%	150	B2YA-8916	20
SC/SCT-08	1	3.75	45 SS	5/8"	100%	140	B2YA-8916	20
SC/SCT-09	1	4.00	45 B	7/8"	100%	150	B2YA-8916	20
SC/SCT-10	1	4.50	45 B	3/4"	100%	150	B2YA-8916	20

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

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

**PB HEAT, LLC**

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