



BURNER SPEC & DATA SHEET

SERIES SC™

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. Cadmium 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 PB Heat, LLC 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-05	1	2.50	60 B	1/4"	80%	140	B2YA-8916	20
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

PO Box 280 • Bally, PA 19503-0280