



# BURNER SPEC & DATA SHEET

## **SERIES SC™**

### **POWER FLAME MODEL "C" BURNER FOR GAS, LIGHT OIL, AND GAS/LIGHT OIL**

#### STANDARD EQUIPMENT

1. Control panel with on/off control switch, power-on and main fuel lights and terminal strip.
2. Spark ignited gas pilot.
3. Air flow safety switch.
4. Cadmium cell flame detector for oil and ultraviolet flame detector for gas and gas/oil.

#### OPTIONAL EQUIPMENT

1. Step-down control circuit transformer and control circuit fuse.
2. Proven low fire start for L-H-O and L-H-L control systems.
3. Controls to comply with FM, IRI and other codes. Contact your local Peerless® Representative or PB Heat, LLC for availability.
4. Various combustion controls. Contact your local Peerless® Representative or PB Heat, LLC for availability.
5. Burner motor voltages: 230/60/1, 208/60/3, 230/60/3. 460/60/3.

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

O-O - On-off operation with one position air. SC/SCT-09 & 10 for oil is on-off operation with low fire. start and one position air.

#### **Optional Control Systems:**

L-H-O - Low-high-off operation with low fire start and two position air.

L-H-L - Low-high-low operation with low fire start and two position air. Requires SPST controller.

MOD - Full modulation with proven low fire start. Requires potentiometer control.

**POWER FLAME MODEL "C" 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
SC/SCT-05	433	3.00	+0.20	CR1-G-10	CR1-O-10	CR1-GO-10
SC/SCT-06	506	3.50	+0.20	CR1-G-10	CR1-O-10	CR1-GO-10
SC/SCT-07	577	4.00	+0.20	CR1-G-10	CR1-O-10	CR1-GO-10
SC/SCT-08	649	4.50	+0.20	CR1-G-10	CR1-O-10	CR1-GO-10
SC/SCT-09	722	5.00	+0.20	CR1-G-10	CR1-O-10	CR1-GO-10
SC/SCT-10	794	5.50	+0.20	CR1-G-10	CR1-O-10	CR1-GO-10

(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.

BOILER MODEL	STANDARD COMBUSTION CONTROL			STANDARD CONTROL SYSTEM	3450 RPM MOTOR HP	STANDARD MOTOR VOLTAGE
	GAS	OIL	GAS/OIL			
SC/SCT-05	RM7897A	R7184P	RM7897C	O-O	1/3	115/60/1
SC/SCT-06	RM7897A	R7184P	RM7897C	O-O	1/3	115/60/1
SC/SCT-07	RM7897A	R7184P	RM7897C	O-O	1/3	115/60/1
SC/SCT-08	RM7897A	R7184P	RM7897C	O-O	1/3	115/60/1
SC/SCT-09	RM7897A	R7184P	RM7897C	O-O	1/3	115/60/1
SC/SCT-10	RM7897A	R7184P	RM7897C	O-O	1/3	115/60/1

**POWER FLAME MODEL "C" BURNER FOR GAS, LIGHT OIL, AND GAS/LIGHT OIL**

BOILER MODEL	STANDARD GAS CONTROL TRAIN			INITIAL AIR SETTINGS (3)	
	INCHES IPS	PRESSURE - INCHES W.C.		TOP	BOTTOM
		MIN.	MAX.		
SC/SCT-05	1"	3.7	14	5/8"	Closed
SC/SCT-06	1"	4.0	14	3/4"	Closed
SC/SCT-07	1"	4.3	14	7/8"	Closed
SC/SCT-08	1"	4.1	14	1"	Closed
SC/SCT-09	1"	4.4	14	1 1/8"	Closed
SC/SCT-10	1"	4.4	14	1 1/4"	Closed

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

BOILER MODEL	NOZZLES - STEINEN			OIL PRESSURE - PSIG		STANDARD FUEL UNIT	
	QTY	GPH	PATTERN	LOW FIRE	HIGH FIRE	SUNTEC	GEARSET GPH (4)
SC/SCT-05	1	1.75	90 S	N/A	300	B2TA-8249	21
SC/SCT-06	1	2.25	90 S	N/A	240	B2TA-8249	21
SC/SCT-07	1	2.50	90 S	N/A	255	B2TA-8249	21
SC/SCT-08	1	2.75	90 S	N/A	270	B2TA-8249	21
SC/SCT-09	1	3.00	90 S	N/A	280	B2TA-8249	21
SC/SCT-10	1	3.25	90 S	N/A	250	B2TA-8249	21

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

**PB HEAT, LLC**  
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