



# BURNER SPEC & DATA SHEET

## **SC/SCT SERIES** **GORDON-PIATT MODEL "S4" BURNER** **FOR GAS AND GAS/LIGHT OIL**

### STANDARD EQUIPMENT

1. On/off control switch.
2. Air flow switch.
3. Spark ignited gas pilot.
4. Manual fuel changeover switch on gas/oil burners.

### OPTIONAL EQUIPMENT

1. Control circuit fuse.
2. Manifold gas pressure gauge.
3. Automatic fuel changeover on gas/oil burners.
4. Controls to comply with FM, IRI and other codes. Contact your local Peerless Representative or Peerless Boilers for availability.

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

B - On-off operation with single position air. (SC/SCT-05 thru 08)

H - On-off operation with low fire start and two position air. (SC/SCT-09 thru 10)

#### **Standard Gas/Oil Control Systems:**

B/F4B - Gas is on-off operation with single position air. Oil is on-off operation with low fire start and two position air. (SC/SCT-05 thru 08)

H/F4S - On-off operation with low fire start and two position air. (SC/SCT-09 thru 10)

#### **Optional Gas Control Systems (SC/SCT-09 & 10 Only):**

HX - Low-high-off operation with proven low fire start and two position air.

H4 - Low-high-low operation with low fire start and two position air. Requires SPST controller.

H4X - Low-high-low operation with proven low fire start and two position air. Requires SPST controller.

#### **Optional Gas/Oil Control Systems (SC/SCT-09 & 10 Only):**

HX/F4SX - Low-high-off operation with proven low fire start and two position air.

H4/F4S - Low-high-low operation with low fire start and two position air. Requires SPST controller.

H4X/F4SX - Low-high-low operation with proven low fire start and two position air. Requires SPST controller.

**GORDON-PIATT MODEL "S4" BURNER FOR GAS AND GAS/LIGHT OIL**

BOILER MODEL	I=B=R INPUT (1)		OVERFIRE PRESSURE IN. W.C. (2)	BURNER MODEL	
	GAS MBH	OIL GPH		GAS	GAS/OIL
SC/SCT-05	433	3.00	+0.20	S4.2-G-03	S4.2-GO-03
SC/SCT-06	506	3.50	+0.20	S4.2-G-03	S4.2-GO-03
SC/SCT-07	577	4.00	+0.20	S4.2-G-03	S4.2-GO-03
SC/SCT-08	649	4.50	+0.20	S4.2-G-03	S4.2-GO-03
SC/SCT-09	722	5.00	+0.20	S4.2-G-03	S4.2-GO-03
SC/SCT-10	794	5.50	+0.20	S4.2-G-03	S4.2-GO-03

(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 with firing at I=B=R Input.

BOILER MODEL	STANDARD COMBUSTION CONTROL		STANDARD CONTROL SYSTEM		3450 RPM MOTOR HP	STANDARD MOTOR VOLTAGE
	GAS	GAS/OIL	GAS	GAS/OIL		
SC/SCT-05	M230UV	M560UV	B	B/F4B	1/3	120/60/1
SC/SCT-06	M230UV	M560UV	B	B/F4B	1/3	120/60/1
SC/SCT-07	M230UV	M560UV	B	B/F4B	1/3	120/60/1
SC/SCT-08	M230UV	M560UV	B	B/F4B	1/3	120/60/1
SC/SCT-09	M230UV	M560UV	H	H/F4S	1/3	120/60/1
SC/SCT-10	M230UV	M560UV	H	H/F4S	1/3	120/60/1

**GORDON-PIATT MODEL "S4" BURNER FOR GAS AND GAS/LIGHT OIL**

BOILER MODEL	STANDARD GAS CONTROL TRAIN			INITIAL AIR SETTINGS (3)	
	INCHES IPS	PRESSURE - INCHES W.C.		LOW FIRE	HIGH FIRE
		MIN.	MAX.		
SC/SCT-05	1"	5.3	14	—	9/16"
SC/SCT-06	1"	3.3	14	—	1/4"
SC/SCT-07	1"	4.3	14	—	3/8"
SC/SCT-08	1"	5.4	14	—	3/8"
SC/SCT-09	1"	6.1	14	3/16"	7/16"
SC/SCT-10	1"	7.2	14	1/4"	1/2"

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

BOILER MODEL	NOZZLES - DELAVAN			OIL PRESSURE - PSIG		STANDARD FUEL UNIT	
	QTY	GPH	PATTERN	LOW FIRE	HIGH FIRE	SUNTEC	GEARSET GPH (4)
SC/SCT-06	1	2.25	60 B	100	240	B2TA-8249	33
SC/SCT-07	1	2.50	60 B	100	255	B2TA-8249	33
SC/SCT-08	1	2.75	60 B	100	270	B2TA-8249	33
SC/SCT-09	2	1.50	60 B	100	280	B2TA-8249	33
SC/SCT-10	2	1.65	60 B	100	280	B2TA-8249	33

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

**PB HEAT, LLC**

P.O. BOX 447 • NEW BERLINVILLE, PA 19545-0447