



# BURNER SPEC & DATA SHEET

## **SERIES SC™**

### **MIDCO MODEL “RE6850” & “RE6850B” BURNER FOR GAS**

#### STANDARD EQUIPMENT

1. Spark ignited gas pilot.
2. Air flow safety switch.
3. Flame rod flame detector.
4. Preassembled gas train.
5. 115V/60 hz burner motor voltage.
6. 115V/24V stepdown transformer for control circuit (Model 6850B only).

#### OPTIONAL EQUIPMENT

1. Control panel with on/off control switch, power-on and main fuel lights and terminal strip.  
Also available are additional lights, control circuit fuse, alarm bell and step-down control circuit transformer.
2. Positive 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 volt, 60 hz; 230 volt, 50 hz (capacity derated 20%).

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

O-O - On-off operation with 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 analog input (0-135 ohm or 4-20 mA).

### MIDCO MODEL "RE6850" BURNER FOR GAS

BOILER MODEL	I=B=R INPUT MBH (1)	OVERFIRE PRESSURE IN. W.C. (2)	BURNER MODEL	STANDARD COMBUSTION CONTROL	STANDARD CONTROL SYSTEM	3450 RPM MOTOR HP	STANDARD MOTOR VOLTAGE
SC/SCT-05	433	+0.20	RE6850	RM7895A	O-O	1/7	115/60/1
SC/SCT-06	505	+0.20	RE6850	RM7895A	O-O	1/7	115/60/1
SC/SCT-07	577	+0.20	RE6850	RM7895A	O-O	1/7	115/60/1
SC/SCT-08	649	+0.20	RE6850	RM7895A	O-O	1/7	115/60/1
SC/SCT-09	722	+0.20	RE6850	RM7895A	O-O	1/7	115/60/1
SC/SCT-10	794	+0.20	RE6850	RM7895A	O-O	1/7	115/60/1

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

### MIDCO MODEL "RE6850B" BURNER FOR GAS

BOILER MODEL	I=B=R INPUT MBH (1)	OVERFIRE PRESSURE IN. W.C. (2)	BURNER MODEL	STANDARD IGNITION CONTROL	STANDARD CONTROL SYSTEM	3450 RPM MOTOR HP	STANDARD MOTOR VOLTAGE
SC/SCT-05	433	+0.20	RE6850B	S8680J	O-O	1/7	115/60/1
SC/SCT-06	505	+0.20	RE6850B	S8680J	O-O	1/7	115/60/1
SC/SCT-07	577	+0.20	RE6850B	S8680J	O-O	1/7	115/60/1
SC/SCT-08	649	+0.20	RE6850B	S8680J	O-O	1/7	115/60/1
SC/SCT-09	722	+0.20	RE6850B	S8680J	O-O	1/7	115/60/1
SC/SCT-10	794	+0.20	RE6850B	S8680J	O-O	1/7	115/60/1

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

### NATURAL GAS

BOILER MODEL	STANDARD CONTROL TRAIN		MANIFOLD PRESSURE (3) (IN. W.C.)	SIDE ORFICE DRILL SIZE	INITIAL AIR SETTING (3)	
	SIZE IPS	PRESSURE - INCHES W.C.				
		MINIMUM				MAXIMUM
SC/SCT-05	1"	4.5	14.0	2.2	31/64"	2.6
SC/SCT-06	1"	4.5	14.0	2.9	31/64"	2.7
SC/SCT-07	1"	4.5	14.0	2.5	9/16"	3.0
SC/SCT-08	1"	4.5	14.0	2.3	N/A	3.3
SC/SCT-09	1"	5.0	14.0	2.7	N/A	3.8
SC/SCT-10	1"	6.0	14.0	3.4	N/A	4.8

### PROPANE

BOILER MODEL	STANDARD CONTROL TRAIN		MANIFOLD PRESSURE (3) (IN. W.C.)	SIDE ORFICE DRILL SIZE	INITIAL AIR SETTING (3)	
	SIZE IPS	PRESSURE - INCHES W.C.				
		MINIMUM				MAXIMUM
SC/SCT-05	1"	4.5	14.0	2.3	23/64"	2.5
SC/SCT-06	1"	4.5	14.0	3.1	23/64"	2.8
SC/SCT-07	1"	4.5	14.0	2.0	31/64"	3.1
SC/SCT-08	1"	4.5	14.0	2.1	9/16"	3.4
SC/SCT-09	1"	5.0	14.0	2.5	9/16"	3.7
SC/SCT-10	1"	6.0	14.0	2.3	N/A	4.2

(3) Settings for start-up only. Final settings to be determined using combustion test equipment.

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