# **Peerless® Boilers**

# Series SC<sup>™</sup>



PeerlessBoilers.com

# **Semi-Commercial Boilers with Optional Tankless Heater**



#### **Standard Equipment**

- > High Efficiency Power Burners\*
- > Honeywell Operating Controls
- > Manual Reset High Limit Control
- > Low Water Cutoff on Packaged Boilers
- > Top Flue Outlet—Includes Locking Damper
- Steel Push Nipples—Provides a Water Tight Seal Between Sections
- > Deluxe Insulated Enameled Steel Jacket
- >Optional Tankless Coils—For Domestic Hot Water

\*choice of Beckett, Carlin, Power Flame, Midco or Webster

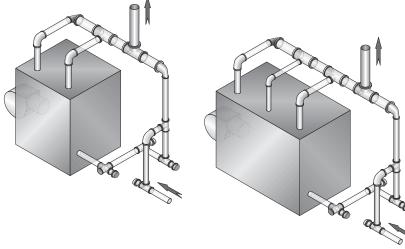
#### **Series SC<sup>™</sup> Boiler Features**

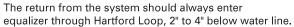
- Semi-Commercial, Oil, Gas or Combination Gas/Oil-fired Boilers
- Constructed of Rugged, Cast Iron, Wet-Base Sections
- 6 Sizes, 5–10 Sections for Hot Water or Steam Systems
- Forced Draft Venting Requires Only a Three Foot Vent Above the Roof
- Meets and/or Exceeds the ASHRAE 90.1 Minimum as Required by the Federal Standards for Commercial Boilers

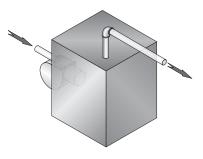
All commercial cast iron boilers include a full one-year warranty. A limited, ten-year warranty is provided on the cast iron sections for all commercial hot water and steam boilers. Visit PeerlessBoilers.com for complete details.

#### **Steam Piping**

#### **Water Piping**







The supply and return connections should be sized to suit the system. The supply should be piped out of the top of the back section and the return piped to the bottom of the front section. There is a <sup>3</sup>/<sub>4</sub>" tapping in the top of the back section for air elimination.

Boiler Piping						
Boiler Model Number	Risers	Header	Equalizer			
SC(T)-05	2 – 2"	3"	1-1/2"			
SC(T)-06	2 – 2"	4"	1-1/2"			
SC(T)-07	2 – 2-1/2"	4"	1-1/2"			
SC(T)-08	2 – 2-1/2"	4"	1-1/2"			
SC(T)-09	2 – 2-1/2"	4"	2"			
SC(T)-10	2 – 2-1/2" and 1 – 2"	4"	2"			

### **Burner Specifications**

	Burners – Oil				Burners – Gas				Burners – Gas/Oil	
Boiler	Beckett	Carlin	Power Flame	Webster	Beckett	Midco	Power Flame	Webster	Power Flame	Webster
Model Number	Model No.	Model No.	Model No.	Model No.	Model No.	Model No. <sup>1</sup> No. <sup>2</sup>	Model No.	Model No.	Model No.	Model No.
SC(T)-05	CF500	201CRD	CR1-0	N/A	CG10.1	RE6850/B	JR15A/CR1-G	N/A	CR1-GO	N/A
SC(T)-06	CF500	201CRD	CR1-O	N/A	CG10.3	RE6850/B	JR15A/CR1-G	N/A	CR1-GO	N/A
SC(T)-07	CF800	201CRD	CR1-O	N/A	CG10.3	RE6850/B	JR15A/CR1-G	N/A	CR1-GO	N/A
SC(T)-08	CF800	201CRD	CR1-O	JB1-O	CG10.4S	RE6850/B	JR30A/CR1-G	JB1-G	CR1-GO	JB1-C
SC(T)-09	CF800	301CRD	CR1-O	JB1-O	CG10.4S	RE6850/B	JR30A/CR1-G	JB1-G	CR1-GO	JB1-C
SC(T)-10	CF800	301CRD	CR1-O	JB1-O	CG10.5S	RE6850/B	JR30A/CR1-G	JB1-G	CR1-GO	JB1-C

1 RE6850 indicates a Honeywell RM7895A 120 VAC Control 2 RE6850B indicates a Honeywell S8680J 24 VAC Control





Tankless Copper Water Heater is located in the rear section when installed on a Steam Boiler.

Tankless Copper Water Heater is located in the upper front nipple port when installed on a Hot Water Boiler.

Both Heaters may be installed on a Water Boiler when a greater volume of Domestic Hot Water is desired.

	Size			
Location	N.P.T.	Steam	Water	
Н	3/4"	Low Limit Control	N/A	
J	3/4"	Press. Gauge, Oper. Cont. & Limit Cont.	Operating Control	
K	3/4"	N/A	Limit Control	
L	1/4"	N/A	Theraltimeter	
М	1/2"	Gauge Glass & Low Water Cutoff	N/A	
Ν	2"	Return	Optional Return	
0	3/4"	Secondary Probe Low Water Cutoff	Secondary Probe Low Water Cutoff	
Ρ	3/4" (05-06) 1" (07-10)	Safety Valve	Relief Valve	
Q	1-1/4" (05-06) 1-1/2" (07-10)	Return	Return	
R	3/4"	Drain Cock	Drain Cock	
S	1-1/2"	Skim Tapping & Alternate Safety Valve	Optional High Limit	
т	3/4"	Primary Probe Low Water Cutoff	N/A	
V	1"	Opt. Float LWCO	Opt. Float LWCO	

**Control Locations** L

Τ



Htr X-1082



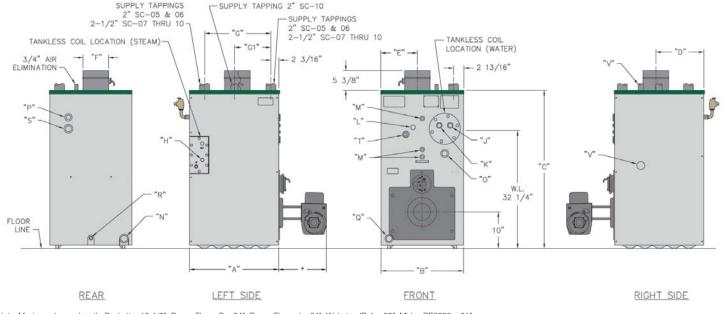
Htr X-1020 Htr X-1022

Optional	<b>Optional Tankless Domestic Hot Water Heaters</b>						
Boiler Model Number	Htr. X-1020 GPM	Htr. X-1022 GPM	Htr. X-1082* GPM (Steam)				
SC(T)-05	4.75	—	4.75				
SC(T)-06	5.00	—	5.00				
SC(T)-07	5.25	—	5.25				
SC(T)-08	5.50	10.00	5.50				
SC(T)-09	5.75	11.00	5.75				
SC(T)-10	6.00	12.00	6.00				

\*Optional tankless coil available. Water heater ratings are based on intermittent demand—40°F to 140°F rise with 200°F boiler water.

# **Technical Information**





Note: Maximum burner length: Beckett = 13-1/2", Power Flame C = 34", Power Flame J = 24", Webster JB-1 = 30", Midco RE6850 = 21".

#### **Boiler Dimensions**

		Jacket						
Boiler Model Number	Depth "A"	Width "B"	Height "C"	Rear of Jacket to c/I of Flue "D"	Left of Jacket to c/I of Flue "E"	Flue Size "F"	Approx. Dist. Between Tappings "G"	Approx. Dist. Between Tappings "G1"
SC(T)-05	24-1/2"	22-1/2"	43-1/4"	13-1/4"	10"	7"	17-7/16"	—
SC(T)-06	28-3/4"	22-1/2"	43-1/4"	15-3/8"	10"	9"	21-5/8"	_
SC(T)-07	33"	22-1/2"	43-1/4"	17-1/2"	10"	9"	25-13/16"	_
SC(T)-08	37-1/4"	22-1/2"	43-1/4"	19-5/8"	10"	9"	30"	-
SC(T)-09	41-1/2"	22-1/2"	43-1/4"	21-3/4"	10"	10"	34-3/16"	-
SC(T)-10	45-3/4"	22-1/2"	43-1/4"	23-7/8"	10"	10"	38-3/8"	17-1/8"

#### Carton Dimensions & Shipping Weights

Approximate Shipping Weight* (lbs.)			
815			
910			
1005			
1100			
1195			
1280			

\* Based on Standard Oil Burner

#### **Boiler Ratings** Series SC<sup>™</sup> Net Ratings Water Thermal Combustion Content. Efficiency. Efficiency, Gas Gross **Oil Input** gal % % Boiler Output. Steam. Water. Steam. Boiler Input. Model Number GPH MBH МВН мвн saft MBH MBH Oil Gas Oil Gas H.P. Water Steam SC(T)-05 2.80 392 404 327 1,022 284 245 83.4 80.9 85.4 82.8 9.8 26.04 20.40 SC(T)-06 3.50 490 505 409 1,278 356 307 83.5 81.0 85.4 82.8 12.2 30.36 23.52 SC(T)-07 4.00 560 577 468 1,463 407 351 83.6 81.1 85.3 82.8 14.0 34.68 26.64 SC(T)-08 4.50 630 649 527 1,647 458 395 83.6 81.1 85.3 82.8 15.8 39.03 29.76 SC(T)-09 5.00 700 722 586 1,832 510 440 83.7 81.2 85.3 82.7 17.5 43.32 32.88 SC(T)-10 794 2,016 484 83.8 81.2 85.3 82.7 5.50 770 645 561 19.3 47.64 36.00

The above ratings are based on 12.75% CO2 (oil) and +.10 in. W.C. at the vent.

The Net Ratings shown include allowance for normal piping and pickup load in accordance with AHRI requirements. Water ratings are based on a piping and pickup allowance factor of 1.35. Steam ratings based on an allowance factor of 1.33. PB Heat should be consulted before selecting a boiler for gravity hot water installations and installations having unusual piping and pickup requirements such as extended piping systems, exposed piping, night set-back, etc. Ratings shown are for elevations up to 2,000 feet. For elevations above 2,000 feet ratings should be reduced at the rate of 4 percent for each 1,000 feet above sea level.



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Oil Burner Input is based on G.P.H. with a heating value of 140,000 BTU/gal. Burner Input based on maximum altitude of 2,000 ft.--for other altitudes consult factory.



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