

# BB-8 Series

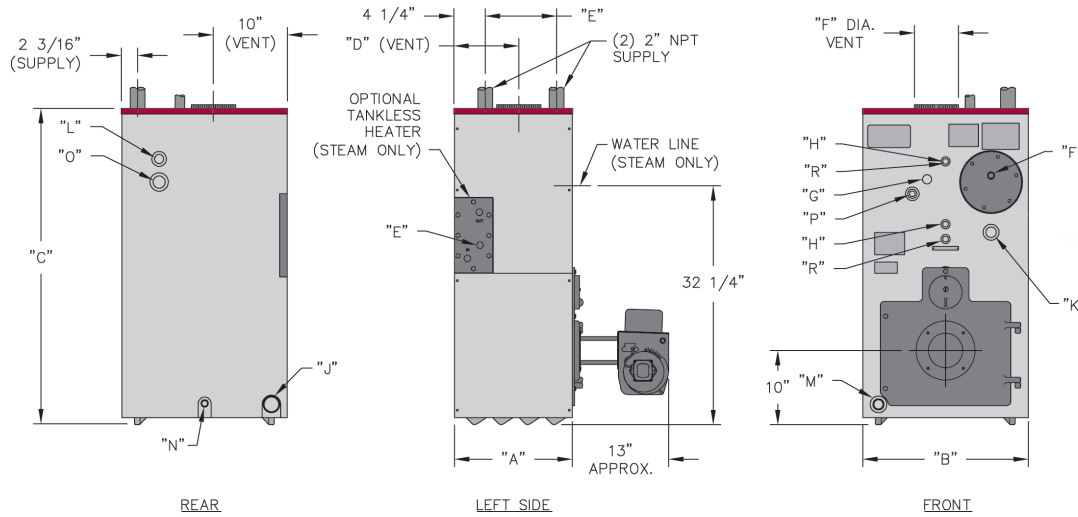


**Smith**  
CAST IRON BOILERS



# BB-8 Series

## OIL-FIRED RESIDENTIAL STEAM BOILERS



Tapping Locations		
Location	Size N.P.T	Steam
E	3/4"	Low Limit Control
F	3/4"	Pressure Gage
G	1/4"	N/A
H	1/2"	Gage Glass and Float LWCO
J	2"	Return
K	3/4"	Secondary Probe LWCO
L	3/4"	Safety Valve
M	1-1/4"	N/A
N	3/4"	Drain Valve
O	1-1/2"	Skim Tapping
P	3/4"	Primary Probe LWCO
R	1/2"	Gauge Glass for Primary Probe LWCO

### BB-8 Dimensions

Boiler Model Number	Jacket Depth "A"	Jacket Width "B"	Jacket Height "C"	Rear of Jacket to C/L of Vent "D"	Distance Between Supply Tappings "E"	Vent Size "F" Dia.	Crated Dimensions			Ship Weight (lbs.)
							Length	Width	Height	
BB-8-3	15-3/4"	22-1/2"	42"	8-3/4"	9-1/16"	6"	40"	28"	47"	570
BB-8-4	19-15/16"			10-7/8"	13-1/4"	7"	40"	28"	47"	710
BB-8-5	24-1/8"			13"	17-7/16"	8"	48"	28"	47"	840
BB-8-6	28-5/16"			15-1/16"	21-5/8"	9"	48"	28"	47"	990

### BB-8 Specifications

Boiler Model Number	Input			Net Ratings <sup>3</sup>		A.F.U.E. %	Thermal Efficiency <sup>2</sup> %	Combustion Efficiency <sup>5</sup> %	Water Content (Gallons)	Minimum Stack Draft Required in. W.C.
	GPH <sup>1</sup>	MBH	Output <sup>4</sup> MBH	sq ft	MBH <sup>2</sup>					
BB-8-3	0.75	105	91	283	68	85.4	-	-	14	-03
BB-8-3	1.00	140	120	375	90	84.4	-	-	14	-04
BB-8-3	1.20	168	142	446	107	82.9	-	-	14	-05
BB-8-4	1.25	175	151	471	113	85.1	-	-	17	-03
BB-8-4	1.50	210	180	563	135	84.5	-	-	17	-04
BB-8-4	1.75	245	208	650	156	83.8	-	-	17	-05
BB-8-5	1.75	245	212	663	159	85.6	-	-	20	-03
BB-8-5	2.00	280	240	750	180	84.6	-	-	20	-04
BB-8-5	2.40	336	279	872	209	-	83.0	85.1	20	-05
BB-8-6	2.75	385	321	1004	241	-	83.3	84.4	23	-04
BB-8-6	3.00	420	347	1083	261	-	82.5	83.7	23	-05



- 1 Burner input based on No. 2 fuel oil with a heating value of 140,000 Btu per gallon.
- 2 Net steam ratings based on an allowance of 1.333.
- 3 Consult factory before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.
- 4 Output is Heating Capacity for models with inputs <300 MBH and Gross Output for models with inputs >300 MBH. Heating Capacity and Annual Fuel Utilization Efficiency (AFUE) ratings are based on U.S. Government tests, with 13% CO<sub>2</sub> and -0.02 w.c. draft over fire. Before purchasing this appliance, read important information about its estimated annual energy consumptions or energy efficiency rating that is available from your retailer.
- 5 Combustion efficiency, thermal efficiency and gross output are determined in accordance with BTS 2000 Testing Standard; @ 12.5% CO<sub>2</sub> and -0.02 w.c. draft over fire.

### STANDARD EQUIPMENT

- Up to 85.6% AFUE
- Residential, Oil-fired Boiler for Steam Systems
- Natural Draft (Chimney) Venting
- High Efficiency, Flame Retention Burners—choice of Beckett, Carlin or Riello
- Packaged Boilers
- Cast Iron Sections—Factory Tested and Assembled with Steel Push Nipples
- Large Water Content, Wet Base Section Design—Ideal for Steam
- Deluxe Powder Coated Steel Insulated Jacket—Reduces Boiler Heat Loss
- Full Plate Swing Out Door—For Quick and Easy Cleaning
- Barometric Draft Damper
- Drain Valve
- Service Switch on Packaged Boilers
- Probe Type LWCO (Packaged Steam Boilers)
- Skim Tapping

### OPTIONAL EQUIPMENT

- Optional Tankless Coils for Domestic Hot Water



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