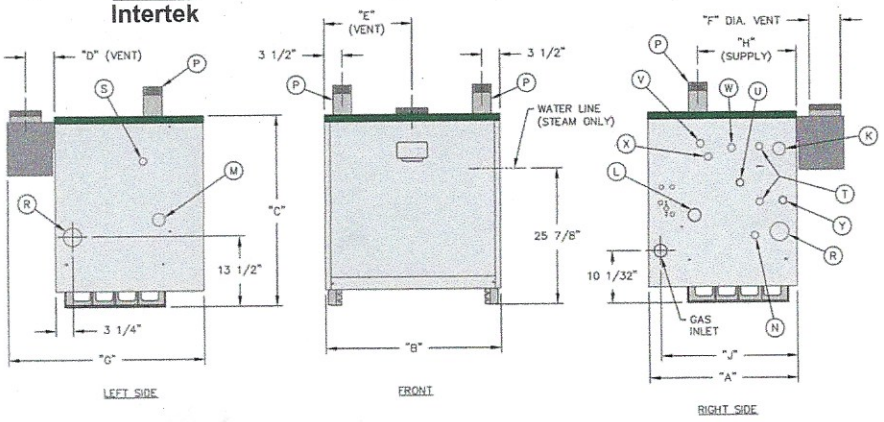
Technical Information

Intertek

AHRI MEMBER



Tapping Locations

Location	Size N.P.T	Steam	Water
K	1-1/4"	Skim Tapping	Skim Tapping
L	1"	Tank Supply/Limit	N/A
M	1"	Tank Return	N/A
N	3/4"	Boiler Drain	Boiler Drain
P	3"	Supply	Supply
R	2-1/2"	Return	Return
S	3/4"	Safety Valve	Relief Valve
T	1/2"	Gauge Glass	N/A
U	3/4"	Primary Probe Low Water Cut-Off	N/A
V	3/4"	Primary Limit	Secondary Limit
W	3/4"	Secondary Limit	Pressure/Temperature Gauge
X	3/4"	Pressure Gauge	Primary Limit
Y	3/4"	Secondary Probe Low Water Cut-Off	N/A

Boiler Dimensions

Boiler Model Number	Jacket Depth "A"	Jacket Width "B"	Jacket Height "C"	Rear of Jkt. to c/l of Vent "D"	Left of Jkt. to c/l of Vent "E"	Vent Size Dia. "F"	Overall Depth "G"	Rear of Jkt. to c/l of Supply "H"	Rear of Jkt. to c/l of Gas Inlet "J"
63-03L	28-1/8"	16-1/8"	36-3/8"	5-5/8"	8-1/16"	6"	37-1/4"	18-11/16"	25-7/8"
63-03	28-1/8"	16-1/8"	36-3/8"	5-5/8"	8-1/16"	6"	37-1/4"	18-11/16"	25-7/8"
63-04L	28-1/8"	20-3/8"	36-3/8"	5-1/8"	10-3/16"	7" or 6"*	37-1/4"	18-11/16"	25-7/8"
63-04	28-1/8"	20-3/8"	36-3/8"	5-1/8"	10-3/16"	7" or 6"*	37-1/4"	18-11/16"	25-7/8"
63-05L	28-1/8"	24-5/8"	36-3/8"	6-5/8"	12-5/16"	8"	39-1/4"	18-11/16"	25-7/8"
63-05	28-1/8"	24-5/8"	36-3/8"	6-5/8"	12-5/16"	8"	39-1/4"	18-11/16"	25-7/8"
63-06	28-1/8"	28-7/8"	36-3/8"	6-1/8"	14-7/16"	9"	39-1/4"	18-11/16"	25-7/8"
64-07	28-1/8"	33-1/8"	36-3/8"	6-1/8"	16-9/16"	9"	39-1/4"	18-11/16"	25-7/8"
64-08	30-1/8"	37-3/8"	36-3/8"	7-1/2"	18-11/16"	10"	43-1/8"	18-15/16"	26-1/8"
64-09	30-1/8"	41-5/8"	36-3/8"	7-1/2"	20-13/16"	10"	43-1/8"	18-15/16"	26-1/8"
64-10	30-1/8"	45-7/8"	36-3/8"	8-1/2"	22-15/16"	12"	45-1/8"	18-15/16"	26-1/8"
64-11	30-1/8"	50-1/8"	36-3/8"	8-1/2"	25-1/16"	12"	45-1/8"	18-15/16"	26-1/8"
64-12	30-1/8"	54-3/8"	36-3/8"	8-1/2"	27-3/16"	12"	45-1/8"	18-15/16"	26-1/8"

*Draft hood outlet and vent damper are 7" diameter on 63-04L and 63.04. These models are also certified in USA with 6" vent using vent reducer provided in draft hood carton. Install reducer on outlet of vent damper.

Boiler Ratings

Series 63™

AHRI CERTIFIED

Boiler Model Number	Input, MBH	Heating Capacity[2], MBH		Net Ratings[1]			AFUE[2]		Water Content		Approximate Shipping Weight (lbs.)
		Water	Steam	Steam, sqft	Steam, MBH	Water, MBH	Water, %	Steam, %	Water, Gallons	Steam, Gallons	
63-03L	88.5	73	74	233	56	63	82.4	83.0	13.2	9.3	465
63-03	118	99	98	308	74	86	83.5	82.6	13.2	9.3	465
63-04L	147.5	123	123	383	92	107	82.7	82.6	15.6	10.8	576
63-04	177	148	147	458	110	129	83.4	82.4	15.6	10.8	576
63-05L	206.5	172	171	533	128	150	82.9	82.3	18.0	12.4	700
63-05	236	198	196	613	147	172	83.3	82.2	18.0	12.4	700
63-06	287.5	241	238	746	179	210	83.2	82.0	20.4	13.9	812

Series 64™

AHRI CERTIFIED

Boiler Model Number	Input, MBH	Gross Output[3], MBH		Net Ratings[1]			Thermal Efficiency[3]		Combustion Efficiency[3]		Water Content		Approximate Shipping Weight (lbs.)
		Water	Steam	Steam, sqft	Steam, MBH	Water, MBH	Water, %	Steam, %	Water, %	Steam, %	Water, Gallons	Steam, Gallons	
64-07	345	279	274	858	206	243	81.0	79.4	83.0	82.5	22.8	15.5	945
64-08	399	323	318	996	239	281	81.0	79.6	83.0	82.5	25.2	17.0	1081
64-09	460	373	367	1146	275	324	81.0	79.7	83.0	82.5	27.6	18.6	1218
64-10	517.5*	419	413	1292	310	364	81.0	79.8	83.0	82.5	30.0	20.1	1354
64-11	575	466	459	1433	344	405	81.0	79.8	83.0	82.5	32.4	21.7	1490
64-12	632.5*	512	506	1583	380	445	81.0	79.9	83.0	82.4	34.8	23.2	1527

1 Net Ratings are based on DOE Heating Capacity or Gross Output less an allowance for normal piping and pickup as determined by AHRI requirements. Water ratings are based on a piping and pickup factor of 1.15. Steam ratings are based on a piping and pickup factor of 1.33. Consult us before selecting a boiler for gravity hot water installations or for installations having unusual piping and pickup requirements such as 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% for each 1,000 feet above sea level.

2 Heating Capacity and Annual Fuel Utilization Efficiency (AFUE) ratings are based on U.S. Government tests. Before purchasing this appliance, read important information about its estimated annual energy consumption or energy efficiency rating that is available from your retailer.

3 Thermal efficiency, combustion efficiency and gross output are determined in accordance with BTS 2000 Testing Standard.

*AHRI Directory indicates inputs to nearest whole number.

PeerlessBoilers.com

CUT-63/64 R5 (10/15-5M)
Printed in U.S.A.

6. The use of a Hartford Loop in all installations is recommended to ensure reliability of the system. A check is required on the pump discharge of all pumped return systems.

7. On pumped return systems, install a globe valve after the pump to allow throttling of the pump discharge. The pressure downstream of the boiler cock should be no more than 5 psig above the boiler operating pressure.

⚠ NOTICE

Always locate the steam supply take-off of the main header between the equalizer and the last boiler supply riser. Locating the steam supply between the risers will cause a bullhead tee and cause water carryover into the system.

8. Pipe the Hartford Loop such that the top of the close nipple is 2 to 4 inches below the boiler normal water line.

9. If the boiler feed pump discharge piping is elevated at any point above the boiler water line, install spring-loaded check valves at both the pump discharge and at the connection to the boiler.

Table 4.1: Steam Supply and Header Pipe Sizing

Boiler Model	Number of Supply Connections	Supply Size (NPS)	Header Size (NPS)	Equalizer Size (NPS)	Evaporation Rate (GPM)
63-03L	1	2	2	1-1/4	0.11
63-03	1	2	2	1-1/4	0.15
63-04L	1	2-1/2	2-1/2	1-1/4	0.19
	2*	2*			
63-04	1	2-1/2	2-1/2	1-1/4	0.23
	2*	2*			
63-05L	1	3	3	1-1/4	0.27
	2*	2*			
63-05	1	3	3	1-1/4	0.31
	2*	2*			
63-06	1	3	3	1-1/4	0.37
	2*	2-1/2*			
64-07	1	3	3	1-1/2	0.45
	2*	2-1/2*			
64-08	2	2-1/2	4	1-1/2	0.52
64-09	2	3	4	1-1/2	0.60
64-10	2	3	4	1-1/2	0.67
64-11	2	3	4	1-1/2	0.75
64-12	2	3	4	1-1/2	0.82

*Dual supplies may be used in lieu of larger single supply on 63-04L through 64-07 as indicated.

D. STEAM BOILER INDIRECT WATER HEATER PIPING

1. See Figure 4.5 for typical installation.

2. Install Boiler Water Temperature Limit Control in 1" Tee on supply connection (same side of boiler as low water cut-off). Set Limit at 160°F to avoid steam generation during periods when only the domestic water is calling for heat.

3. Install circulator and strainer in supply piping. Install check valve to prevent gravity circulation.

⚠ NOTICE

Maintain water level near normal water line to avoid steam generation during periods when only the domestic water is calling for heat.

Tank performance reduced when supplied by steam boiler.

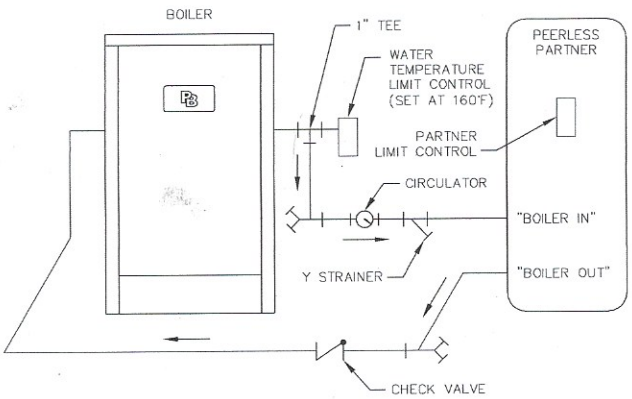


Figure 4.5: Typical Steam Boiler Indirect Water Heater Piping

E. STEAM BOILER PIPING - MULTIPLE BOILERS

Refer to the *PB Heat Steam Installation Survey and Hydronics Institute Residential Hydronic Heating Installation Design Guide* for guidance on multiple boiler installations.

F. NEAR BOILER PIPING SIZING - STEAM BOILERS

For near boiler piping refer to figures 4.6 through 4.8.