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RHP600 - RHP750 Steam Boiler Series





Features

- Maximum safety valve setting 150psi
- All boilers are manufactured in accordance with the requirements of the A.S.M.E. Boiler and Pressure Vessel Code and A.S.M.E. CSD-1. Each boiler bears the National Board Stamp "S".
- Dry saturated steam, operating pressure range 0 – 135psi
- Heavy duty carbon steel pressure vessel. Vessel jacket and electrical enclosure made from black painted carbon steel
- · Large selection of optional equipment

Applications

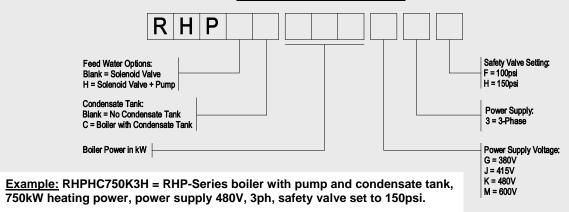
- Process steam
- Industrial Autoclaves
- Air humidification
- Dry cleaning
- Food service
 - Laboratories
- Automotive Industry

Standard equipment of each boiler includes: Primary low water cutoff control with automatic reset, secondary low water cut off with manual reset, safety relief valve, pressure gauge, one (1) primary high pressure cutoff control with automatic reset, one (1) secondary high pressure control with manual reset and PID-step control with number of heating stages depending on boiler size.

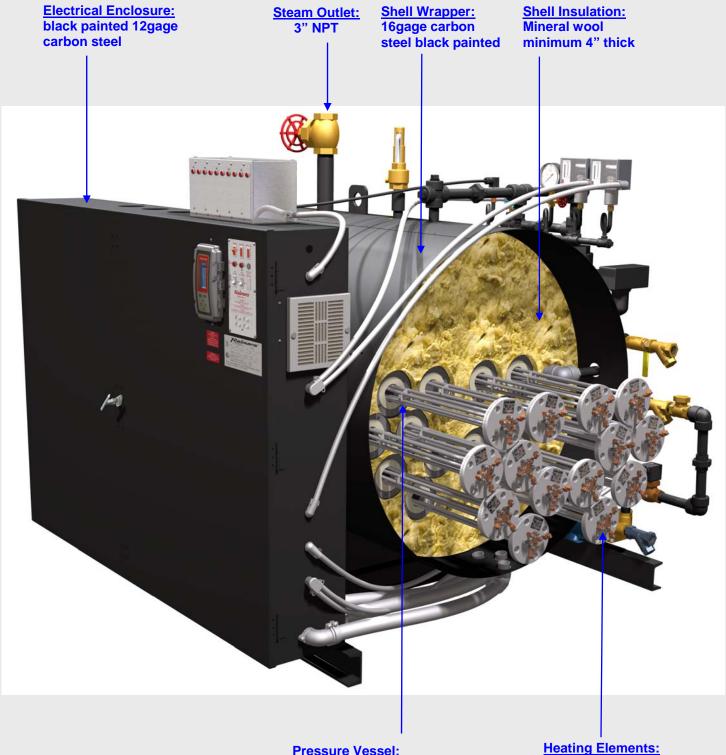
RHP SERIES LOW & HIGH PRESSURE STEAM BOILERS										
KW	STEAM LB/HR	ВНР	VOLTAGE*	PHASE	NUMBER OF HEATING STAGES	SHIP WT. ** LB	OP. PRESS. RANGE	BTU/HR	Steam Outlet (NPT)	
600 KW	2,086	60	380/415/480/600	3	10	2,640	0-135 PSIG	2,047,200	3"	
750 KW	2,608	75	380/415/480/600	3	12	2,640	0-135 PSIG	2,559,000	3"	

- * Each boiler model requires two (2) power supplies: Primary heating power and secondary control voltage. Nominal control voltage is 120V, 50/60Hz. When boiler equipped with transformer option, only heating power supply required.
- ** Shipping weight for models with feed water solenoid. For models with feed water solenoid + pump and pump + condensate tank, see page 5.

Model Number Key



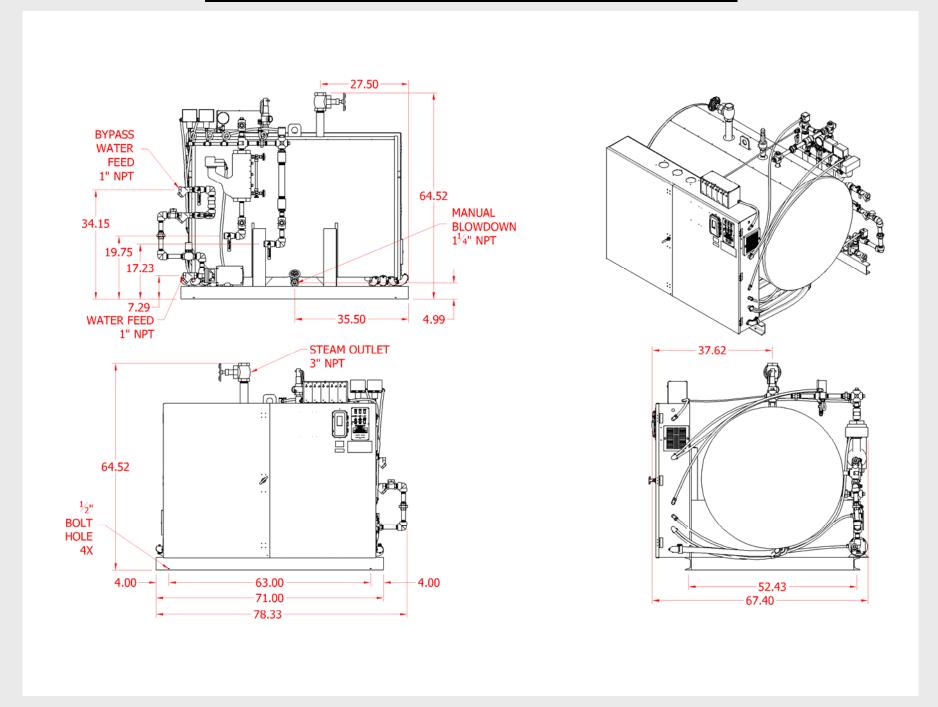
Construction



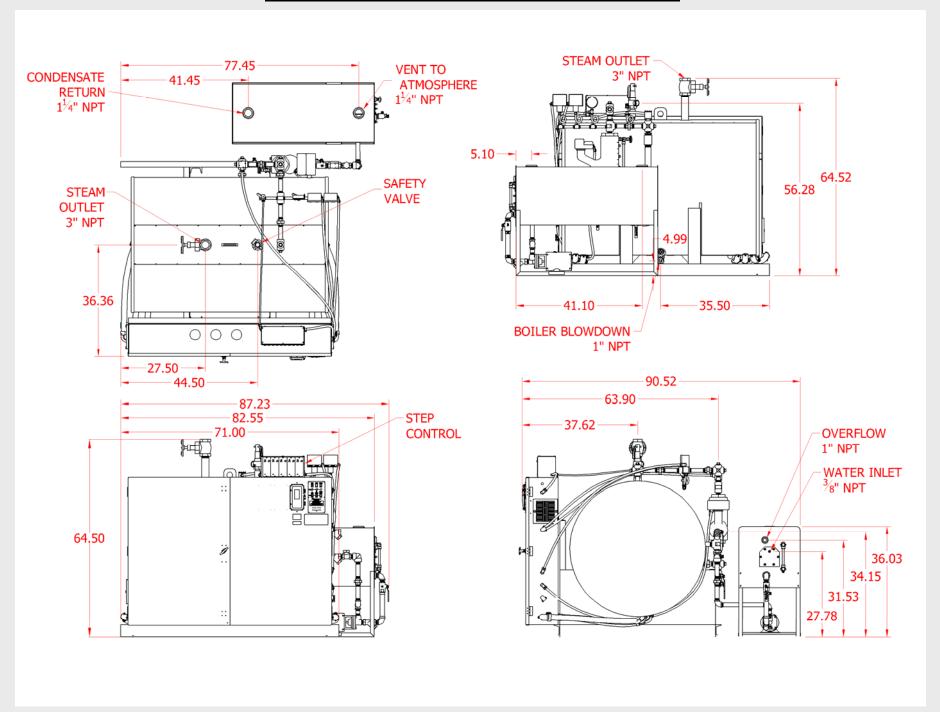
Pressure Vessel:
Manufactured from low carbon steel to comply under the "S" symbol of the A.S.M.E. Code and are individually inspected.

Heating Elements: Manufactured from Incoloy for high corrosion protection

Overall Dimensions RHP-Series with Feed Water Solenoid or Feed Water Solenoid + Pump



RHP-Series with Feed Water Pump + Condensate Tank



Optional Equipment

1. Timer Controlled Boiler Blowoff System, #OPT1001:



Program boiler blowoff day time and duration



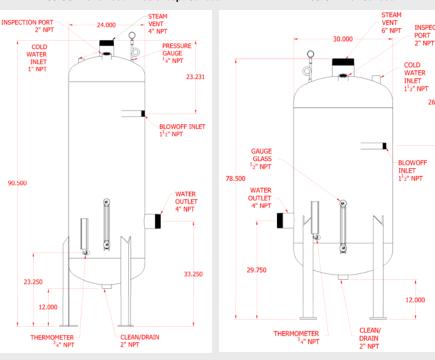
At the end of boiler blowoff, valve closes, boiler controls turn on, water level in boiler restores and boiler resumes operation automatically.

26.125

2. Blowoff Tanks:

#BTANK-750-USA for all countries except Canada





3. Control Voltage Transformer. When using this option, only main power supply required to operate boiler.

Boiler Voltage		Transformer Option Part Number				
	380V	OPT1011 – 380RHP				
	415V	OPT1011 – 380RHP				
	480V	OPT1011 – 480RHP				
	600V	OPT1011 – 600RHP				

4. Timer Controlled Boiler On/Off, #OPT1017



Program timer to turn boiler on/off automatically

Mechanical Specifications

Model	del Output Ste Capacity Ou Siz		Operating Steam Steam Capacity Pressure Range		Dimensions L x H x W	Approx. Shipping Weight
	BTU/H (kW)		psig (bar)	lbs (kg)	in (mm)	lbs (kg)
RHP-600 RHPH-600 RHPHC-600	2,047,200 (600)	3"	0-135 (0 – 9.3)	2,086 (945)	78.50 x 64.50 x 67.40 (1994 x 1638 x 1712) 78.50 x 64.50 x 67.40 (1994 x 1638 x 1712) 87.30 x 64.50 x 90.50 (2217 x 1638 x 2299)	2,460 (1114) 2,520 (1142) 2,760 (1250)
RHP-750 RHPH-750 RHPHC-750	2,559,000 (750)	3"	0-135 (0 – 9.3)	2,608 (1181)	78.50 x 64.50 x 67.40 (1994 x 1638 x 1712) 78.50 x 64.50 x 67.40 (1994 x 1638 x 1712) 87.30 x 64.50 x 90.50 (2217 x 1638 x 2299)	2,640 (1196) 2,700 (1223) 2,940 (1332)

Electrical Specifications

Model	Boiler Models Equipped with 100W/in ² Watt Density Heating Elements								
	Voltage		Amps	No. and Size of Elements	No. and Sizes of Contactors	No. and Sizes of Fuses	Gage of Power Entry Wires	No. and Size of Power Entry Wire Conduits	
	Volts	Phase	Α				AWG/ MCM		
RHP-	380	3	911.6	20 x 30kW	20 x 75A	60 x 60A, 600V	9 x 500MCM	3 x 3"	
600	415	3	834.7		20 x 50A	60 x 100A, 600V	9 x 500MCM	3 x 3"	
	480	3	721.7		20 x 50A	60 x 90A, 600V	9 x 350MCM	3 x 2-1/2"	
	600	3	577.4		20 x 50A	60X 70A, 600V	6 x 500MCM	2 x 3"	
RHP-	380	3	1139.5	25 x 30kW	25 x 75A	75 x 60A, 600V	12 x 500MCM	4 x 3"	
750	415	3	1043.4		25 x 50A	36 x 100A, 600V + 3 x 50A, 600V	12 x 400MCM	4 x 3"	
	480	3	902.1		25 x 50A	36 x 90A, 600V + 3 x 50A, 600V	9 x 500MCM	3 x 3"	
	600	3	721.7		25 x 50A	37 x 70A, 600V + 3 x 40A, 600V	9 x 350MCM	3 x 2-1/2"	