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RHP540 - RHP750 STEAM BOILERS



Applications

- Process Steam
- **Industrial Autoclaves**
- **Air Humidification Dry Cleaning**
- Food Service
 - Laboratories
 - **Automotive Industry**

Features

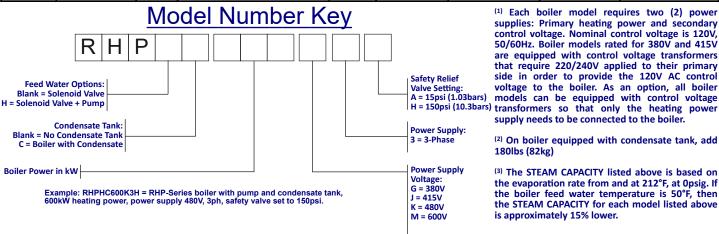


- Maximum safety valve setting 150psi
- All boilers are manufactured in accordance with the requirements of the A.S.M.E. Boiler and Pressure Vessel Code and A.S.M.E. CSD-1. Each boiler bears the National Board Stamp "S".
- High quality saturated steam, operating pressure range 0 135psig
- Heavy duty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

Standard Equipment of Each Boiler Includes:

- A.S.M.E. pressure relief valve
- Two (2) boiler bottom blowoff valves (one quick-opening and one slow opening) as per A.S.M.E. Code B31.1
- 4" flanged class 150# carbon steel steam outlet valve
- High pressure feed pump in RHPH- and RHPHC-models
- One (1) primary high pressure cutoff control with automatic reset and one (1) secondary high pressure cutoff control with manual reset
- One (1) primary low water cutoff control with automatic reset and one (1) secondary low water cutoff with manual reset
- PID-step controller with number of heating stages depending on boiler model
- Digital readout of the operating pressure
- Magnetic contactors
- Internal branch circuit fusing
- Main supply power distribution block
- Indicator lights for POWER, REFILLING, HEATING, ALARMS and Automatic Boiler Blowoff Status
- Pressure and water level gauge

HEATING	STEAM	ВНР	VOLTAGE ⁽¹⁾	PHASE	SHIP	PRESSURE	OPERATING	STEAM OUTLET	
POWER	CAPACITY				WEIGHT. ⁽³⁾	VESSEL	PRESSURE	(NPT)	
						CAPACITY	RANGE		115
	(4)							LP	HP
KW	lbs/hr (kg/hr) ⁽⁴⁾				lbs (kg)	GAL. (L)	psi (bar)	<15psig	>15psig
540 KW	1842 (836)	54.0	380/415/480/600	3	2764 (1254)	179 (677.59)	0 - 135 (0 - 9.3)	4" FLA	ANGED
570 KW	1945 (882)	57.0	380/415/480/600	3	2772 (1257)	179 (677.59)	0 - 135 (0 - 9.3)	4" FLA	ANGED
600 KW	2047 (928)	60.0	380/415/480/600	3	2780 (1261)	179 (677.59)	0 - 135 (0 - 9.3)	4" FLA	ANGED
630 KW	2150 (975)	63.0	380/415/480/600	3	2788 (1264)	179 (677.59)	0 - 135 (0 - 9.3)	4" FLA	ANGED
660 KW	2252 (1021)	66.0	380/415/480/600	3	2796 (1268)	179 (677.59)	0 - 135 (0 - 9.3)	4" FLA	ANGED
690 KW	2354 (1068)	69.0	380/415/480/600	3	2804 (1272)	179 (677.59)	0 - 135 (0 - 9.3)	4" FLA	ANGED
720 KW	2457 (1114)	72.0	380/415/480/600	3	2812 (1275)	179 (677.59)	0 - 135 (0 - 9.3)	4" FLA	ANGED
750 KW	2559 (1161)	75.0	380/415/480/600	3	2820 (1279)	179 (677.59)	0 - 135 (0 - 9.3)	4" FLA	ANGED



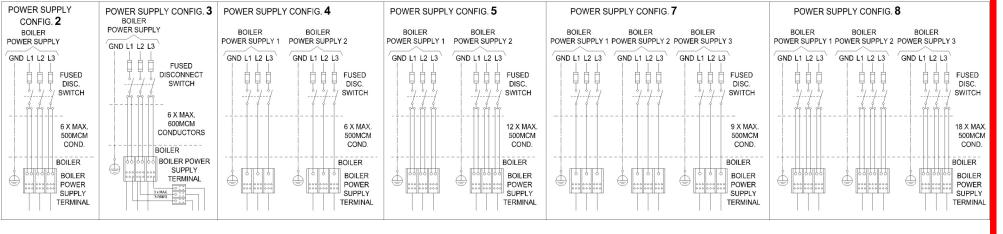
supply needs to be connected to the boiler. (2) On boiler equipped with condensate tank, add

(3) The STEAM CAPACITY listed above is based on the evaporation rate from and at 212°F, at Opsig. If the boiler feed water temperature is 50°F, then the STEAM CAPACITY for each model listed above is approximately 15% lower.

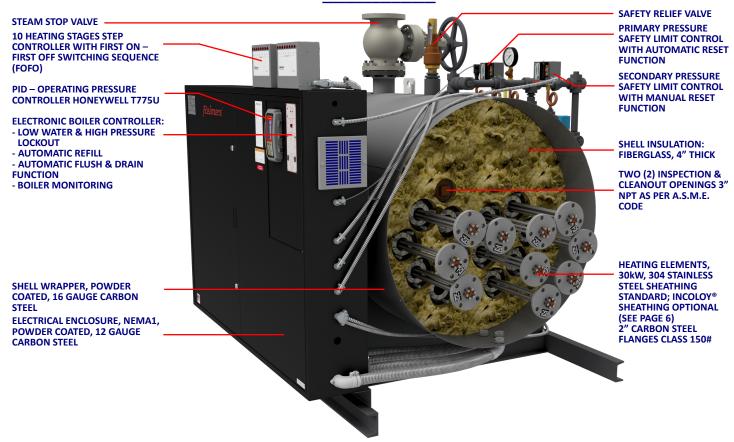
Please note that all information provided within this brochure is approximate and subject to change without notice. Please contact Reimers Electra Steam, Inc. with any questions regarding the specifications or dimensions detailed within.

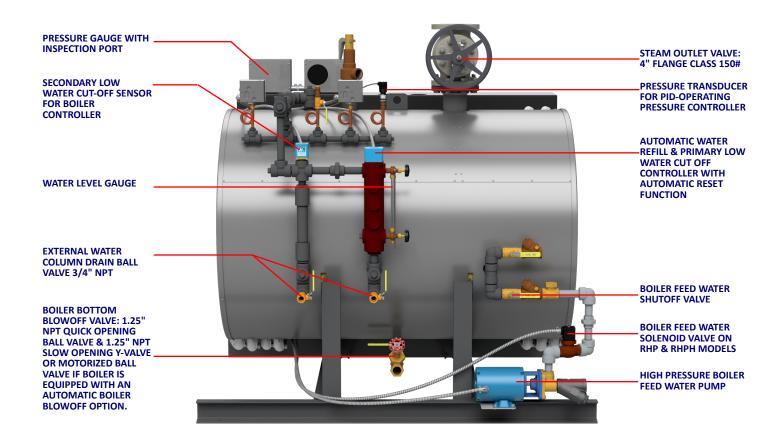
Electrical Specifications

BOILER HEATING POWER	PRIMARY VOLTAGE	PHASE	INTERNAL POWER FUSING		NUMBER & SIZES OF CONTACTORS		POWER SUPPLY CONFIGURATIONS ⁽¹⁾																
								OI	PTION 01		OPTION 02							OPTION 03					
						AMP DRAW POWER MIN REQ. INCOME N.E.C. SERVICE				AMP DRAW		MIN REQ. N.E.C. SERVICE			AMP DRAW		MIN REQ. N.E.C.						
						1	2				1	2	3				1	2	3				
				AWG (mm²)		А	А	А	MIN. REQUIRED CONDUCTOR SIZE IN	CONFIGURATION	Α	А	Α	А	MIN. REQUIRED CONDUCTOR SIZE IN	CONFIGURATION	Α	Α	А	A	MIN. REQUIRED CONDUCTOR SIZE IN	CONFIGURATION	
540	380	3	54 x 90A 600V	8 (8.4)	18 x 50A	410.2	410.2	2 x 512.8	12 x 300 MCM	5	273.5	273.5	273.5	3 x 341.9	9 x 500 MCM	7							
	415	3	54 x 60A 600V	8 (8.4)	18 x 50A	375.6	375.6	2 x 469.5	12 x 250 MCM	5	250.4	250.4	250.4	3 x 313.0	9 x 400 MCM	7							
	480	3	54 x 60A 600V	8 (8.4)	18 x 50A	649.5		1 x 811.9	6 x 600 MCM	3	324.8	324.8		2 x 405.9	12 x AWG 4/0	5	216.5	216.5	216.5	3 x 270.6	9 x 300 MCM	7	
	600	_	54 x 60A 600V	8 (8.4)	18 x 50A	519.6		1 x 649.5	6 x 400 MCM	2	259.8	259.8		2 x 324.8	6 x 400 MCM	4							
600		_	60 x 90A 600V	8 (8.4)	20 x 50A	455.8	455.8	2 x 569.8	12 x 300 MCM	5													
		_	60 x 60A 600V	8 (8.4)	20 x 50A	417.4	417.4	2 x 521.7	12 x 300 MCM	5		292.2		3 x 365.2	9 x 500 MCM	7							
		_	60 x 60A 600V	8 (8.4)	20 x 50A	360.8	360.8	2 x 451.1	12 x 250 MCM	5		252.6	216.5	3 x 315.7	9 x 400 MCM	7							
		_	60 x 60A 600V	8 (8.4)	20 x 50A	577.4		1 x 721.7	6 x 500 MCM	2	288.7	288.7		2 x 360.8	6 x 500 MCM	4							
660		_	66 x 90A 600V	8 (8.4)	22 x 50A	501.4	501.4	2 x 626.7	12 x 400 MCM	5													
		-	66 x 60A 600V	8 (8.4)	22 x 50A	459.1	459.1	2 x 573.9	12 x 350 MCM	5													
	100	_	66 x 60A 600V	8 (8.4)	22 x 50A	396.9	396.9	2 x 496.2	12 x 250 MCM	5	288.7		252.6		9 x 500 MCM	7							
		_	66 x 60A 600V	8 (8.4)	22 x 50A	635.1		1 x 793.9	6 x 600 MCM	3		317.5		2 x 396.9	12 x AWG 3/0		230.9	202.1	202.1	3 x 288.7	9 x 350 MCM	7	
720		_	72 x 90A 600V	8 (8.4)	24 x 50A	547.0	547.0	2 x 683.7	12 x 500 MCM	5		364.6			18 x AWG 4/0	8							
		_	72 x 60A 600V	8 (8.4)	24 x 50A	500.8	500.8	2 x 626.0	12 x 400 MCM	5		333.9			18 x AWG 4/0	8							
		_	72 x 60A 600V	8 (8.4)	24 x 50A	433.0	433.0	2 x 541.3	12 x 300 MCM	5		288.7			9 x 500 MCM	7							
750		_	72 x 60A 600V	8 (8.4)	24 x 50A	346.4	346.4	2 x 433.0	12 x AWG 4/0	5		230.9		3 x 288.7	9 x 350 MCM	7							
750			75 x 90A 600V 75 x 60A 600V	8 (8.4)	25 x 50A	592.5	547.0	2 x 740.7	12 x 500 MCM	5	410.2			3 x 512.8	18 x 300 MCM	8 8							
		_	75 x 60A 600V	8 (8.4) 8 (8.4)	25 x 50A	542.6 469.1	500.8 433.0	2 x 678.2 2 x 586.4	12 x 500 MCM 12 x 350 MCM	5	375.6	333.9 288.7			18 x 250 MCM	8							
		_	75 x 60A 600V	8 (8.4)	25 x 50A 25 x 50A	469.1 375.3	433.0 346.4	2 x 586.4 2 x 469.1	12 x 350 MCM	5	324.8	288.7			18 x AWG 4/0 9 x 400 MCM	8							
	000	3	75 X BUA BUUV	8 (8.4)	25 X 5UA	3/5.3	546.4	2 x 469.1	12 X 250 IVICIVI	3	259.8	230.9	250.9	3 X 324.8	9 X 400 IVICIVI	/							



Construction





FIELD TERMINAL FOR POWER CIRCUITS; NUMBER AND SIZE OF TERMINALS PROVIDED PER CIRCUIT AND PHASE DEPENDS ON BOILER MODEL (REFER TO ELECTRICAL SPECIFICATION TABLE ON PAGE 2)

ELECTRICAL ENCLOSURE COOLING FAN HEATING ELEMENT WIRING, RATED 125°C MINIMUM

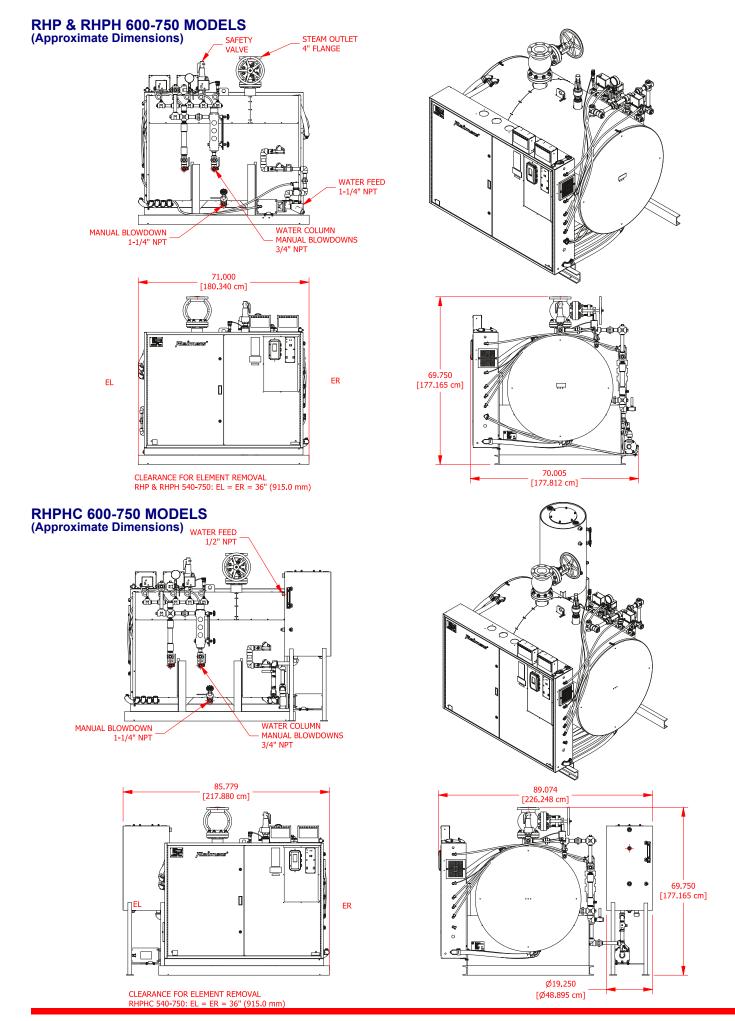


FIELD TERMINAL FOR CONTROL VOLTAGE HOOKUP; NOT NEEDED WHEN A CONTROL VOLTAGE TRANSFORMER (OPT1011) IS INSTALLED

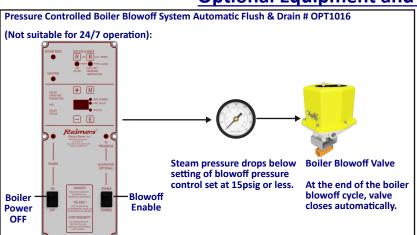
BOILER FEED WATER PUMP FUSING; UL CLASS RK5

HEATING ELEMENT CIRCUIT FUSING; UL CLASS K STANDARD OR UL CLASS J OPTIONAL

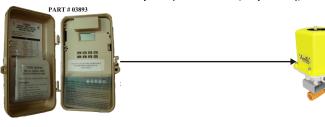
HEATING ELEMENT CIRCUIT MAGNETIC CONTACTORS, RATED MIN. 250,000 CYCLES AT FULL RATED ELECTRICAL LOAD



Optional Equipment and Accessories







Program boiler blowoff day time and duration

When boiler blowoff time is reached, boiler controls turn off automatically and the blowoff valve opens.

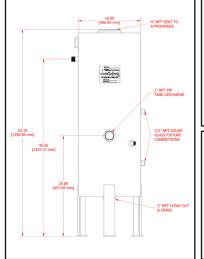
At the end of the boiler blowoff cycle the blowoff valve closes, boiler controls turn on, the water level in boiler restores and boiler resumes operation automatically.

Boiler Blowoff Tank, #BTANK16:

- Designed in accordance with the National Board Guide for Blowoff Vessels NB-27
- Designed and manufactured in accordance with the requirements of the A.S.M.E. Boiler and Pressure Vessel Code Section VIII, Division

Each tank bears the National Board Stamp "U". The design pressure is 100psig.







Boiler Blowoff Tank After-Cooler #OPT1027:

Most States and Local Municipalities require that fluids drained to the sewer shall have a maximum temperature of not more than 140°F.

Install this after-cooler to the blowoff thank discharge line when boiler operates with one of the above automatic blowoff options.

Control Voltage Transformer Options: Use one of these options for point boiler power supply.

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





INCOLOY® HEATING ELEMENT SHEATHING, #OPT-INCOLOY®