



## RB10 – RB30 Steam Boiler Series



### Features

- Miniature boiler max. vessel volume 1.5ft<sup>3</sup>
- Maximum safety valve setting 100psi
- 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 "M".
- High quality saturated steam, operating pressure range 0 – 85psig
- Very compact design, all controls accessible from boiler front, very suitable for installation in tight spaces such as autoclaves
- Heavy duty carbon steel pressure vessel. Vessel jacket and electrical enclosure 304 stainless steel
- Large selection of optional equipment

### Applications

- Autoclaves
- Air Humidification
- Steam Cleaning
- Dry cleaning
- Food service
- Laboratories

**Standard equipment of each boiler includes:** Low water cutoff control with manual reset, high pressure cutoff control with manual reset, one (1) operating pressure control, high water cut-off control with automatic or manual reset, pressure gauge and safety valve.

HEATING POWER kW	STEAM CAPACITY lbs/hr (kg/hr)	BHP	VOLTAGE <sup>(1)</sup>	PHASE	SHIP WT. <sup>(3)</sup> lbs (kg)	OP. PRESS. RANGE psi (bar)	Steam Outlet (NPT)	
							LP	HP
10 KW	34 (15.4)	1.0	208/240/380/415/480/600	3 <sup>(2)</sup>	195 (88.5)	0 - 85 (0 - 5.86)	½"	½"
18 KW	61 (27.6)	1.8	208/240/380/415/480/600	3 <sup>(2)</sup>	195 (88.5)	0 - 85 (0 - 5.86)	½"	½"
20 KW	69 (31.2)	2.0	208/240/380/415/480/600	3 <sup>(2)</sup>	195 (88.5)	0 - 85 (0 - 5.86)	½"	½"
30 KW	104 (47.1)	3.0	208/240/380/415/480/600	3 <sup>(2)</sup>	195 (88.5)	0 - 85 (0 - 5.86)	½"	½"

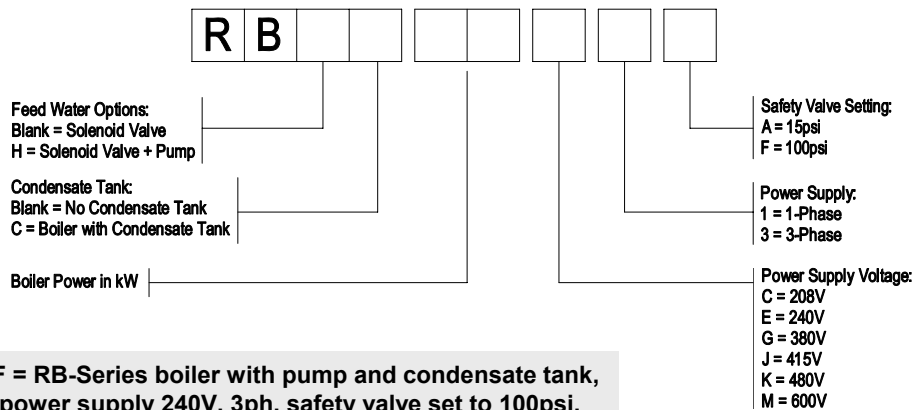
<sup>(1)</sup> Each boiler model requires two (2) power supplies: Primary heating power and secondary control voltage.

Nominal control voltage is 120V, 50/60Hz. When boiler is equipped with transformer option, only heating power supply is required

<sup>(2)</sup> Also available in 240V 1PH

<sup>(3)</sup> On boilers equipped with condensate tanks, add 60lbs (27.2kg) to the shipping weight

### Model Number Key

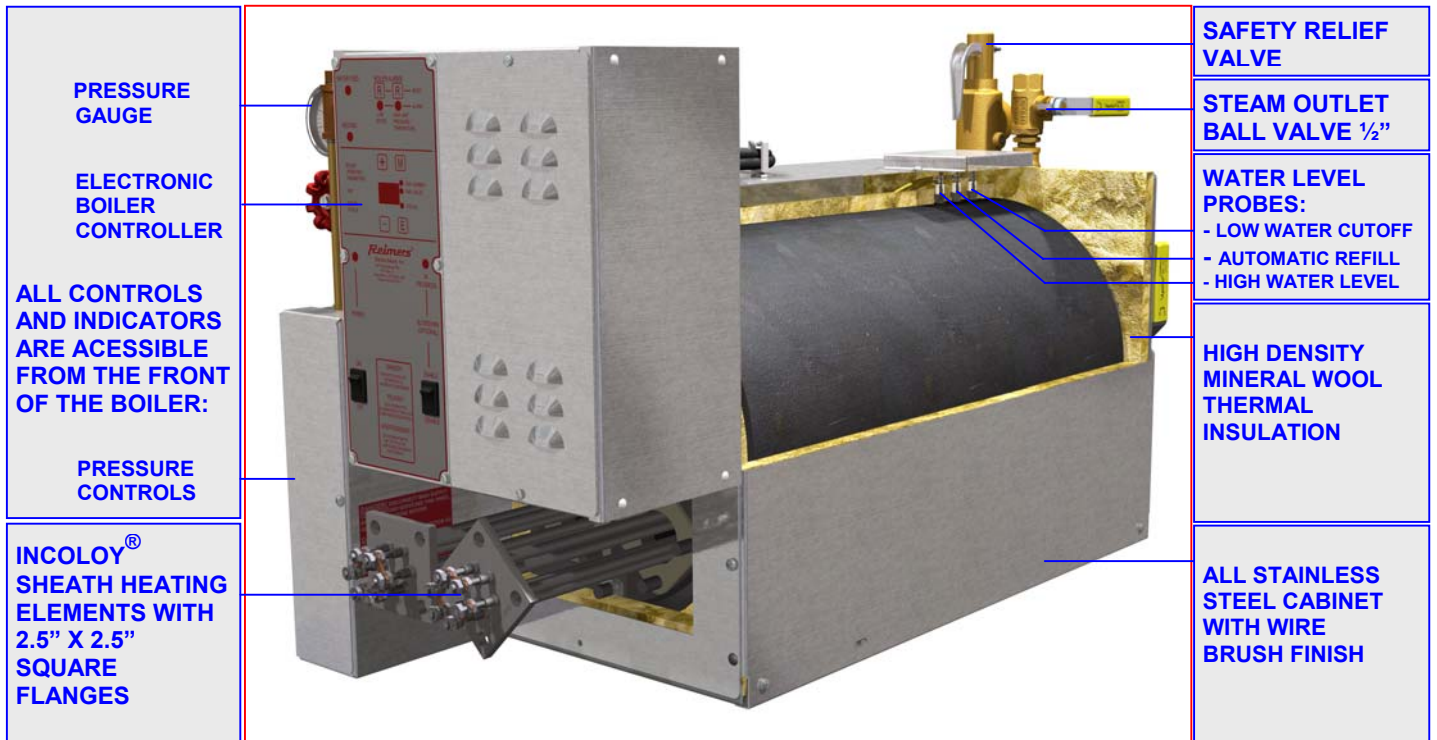


**Example:** RBHC20E3F = RB-Series boiler with pump and condensate tank, 20kW heating power, power supply 240V, 3ph, safety valve set to 100psi.

# Electrical Specifications

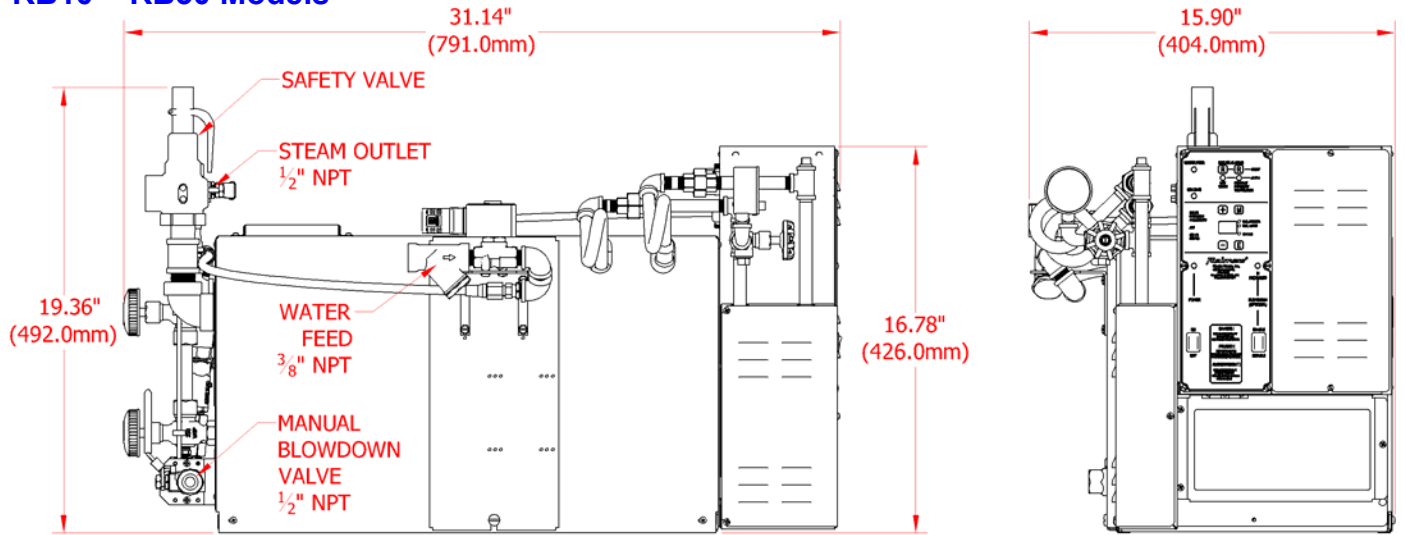
HEATING POWER	VOLTAGE	PHASE	AMP DRAW	MIN REQUIRED N.E.C. SERVICE	INTERNAL POWER FUSING	NUMBER & SIZES OF CONTACTORS	NUMBER & SIZE OF ELEMENTS	ELEMENT STRAPING	GAGE OF POWER ENTRY WIRE
KW	V		A	A					AWG (mm <sup>2</sup> )
10	208	3	27.8	35.0	NO	1 x 50A res.	1 x 10kW, 208V	Δ	8 (8.35)
18	208	3	50.0	62.0	NO	1 x 75A, res.	2 x 9kW, 208V	Δ	6 (13.3)
20	208	3	55.5	70.0	NO	1 x 75A, res.	2 x 10kW, 208V	Δ	4
30	208	3	83.3	104.0	NO	2 x 50A res.	2 x 15kW, 208V	Δ	2
10	240	1	41.7	52.0	NO	1 x 50A res.	1 x 10kW, 240V	3P	6 (13.3)
18	240	1	75.0	94.0	NO	2 X 50A, res.	2 x 9kW, 240V	3 X 2 rods parallel	3
20	240	1	83.3	104.0	NO	2 X 50A, res.	2 x 10kW, 240V	3 X 2 rods parallel	2
30	240	1	125.0	156.0	6 X 50A, 300V	2 X 50A, res.	2 x 15kW, 240V	3 X 2 rods parallel	2/0
10	240	3	24.1	30.0	NO	1 x 50A res.	1 x 10kW, 240V	Δ	10
18	240	3	43.3	54.0	NO	1 x 50A res.	2 x 9kW, 240V	Δ	6 (13.3)
20	240	3	48.1	60.0	NO	1 x 75A, res.	2 x 10kW, 240V	Δ	6 (13.3)
30	240	3	72.2	90.0	NO	1 x 75A, res.	2 x 15kW, 240V	Δ	3
10	380	3	14.4	18.0	NO	1 x 50A res.	1 x 15kW, 480V	Y	12
20	380	3	31.9	40.0	NO	1 x 50A res.	1 x 10kW, 240V + 1 x 15kW, 240V	Y Y	8 (8.35)
30	380	3	45.6	57.0	NO	1 x 75A, res.	2 x 15kW, 380V	Y	6 (13.3)
10	415	3	13.9	17.0	NO	1 x 50A res.	1 x 10kW, 415V	Y	12
20	415	3	27.8	35.0	NO	1 x 50A res.	2 x 10kW, 415V	Y	8
30	415	3	41.7	52.0	NO	1 x 50A res.	2 x 15kW, 415V	Y	6 (13.3)
10	480	3	12.0	15.0	NO	1 x 50A res.	1 x 10kW, 480V	Y	12
18	480	3	21.7	27.0	NO	1 x 50A res.	2 x 9kW, 480V	Δ	10
20	480	3	24.1	30.0	NO	1 x 50A res.	2 x 10kW, 480V	Y	8 (8.35)
30	480	3	36.1	45.0	NO	1 x 50A res.	2 x 15kW, 480V	Y	8 (8.35)
10.4	600	3	10.0	13.0	NO	1 x 50A res.	2 x 10kW, 240V	Double Y	14
17.9	600	3	17.2	22.0	NO	1 x 50A res.	1 x 15kW, 208V + 1 x 15kW, 240V	Double Y	10
20.8	600	3	20.0	25.0	NO	1 x 50A res.	2 x 15kW, 208V	Double Y	10
25	600	3	24.1	30.0	NO	1 x 50A res.	1 x 15kW, 240V + 1 x 10kW, 240V	Y- Δ	8 (8.35)

## Construction

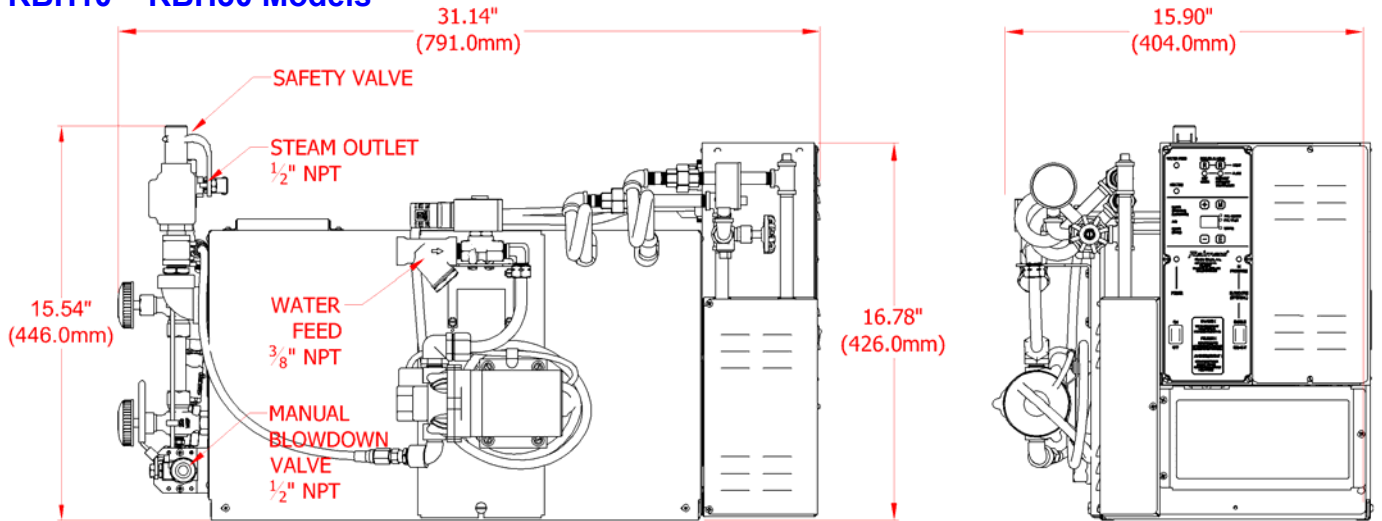


# Dimensional Drawings

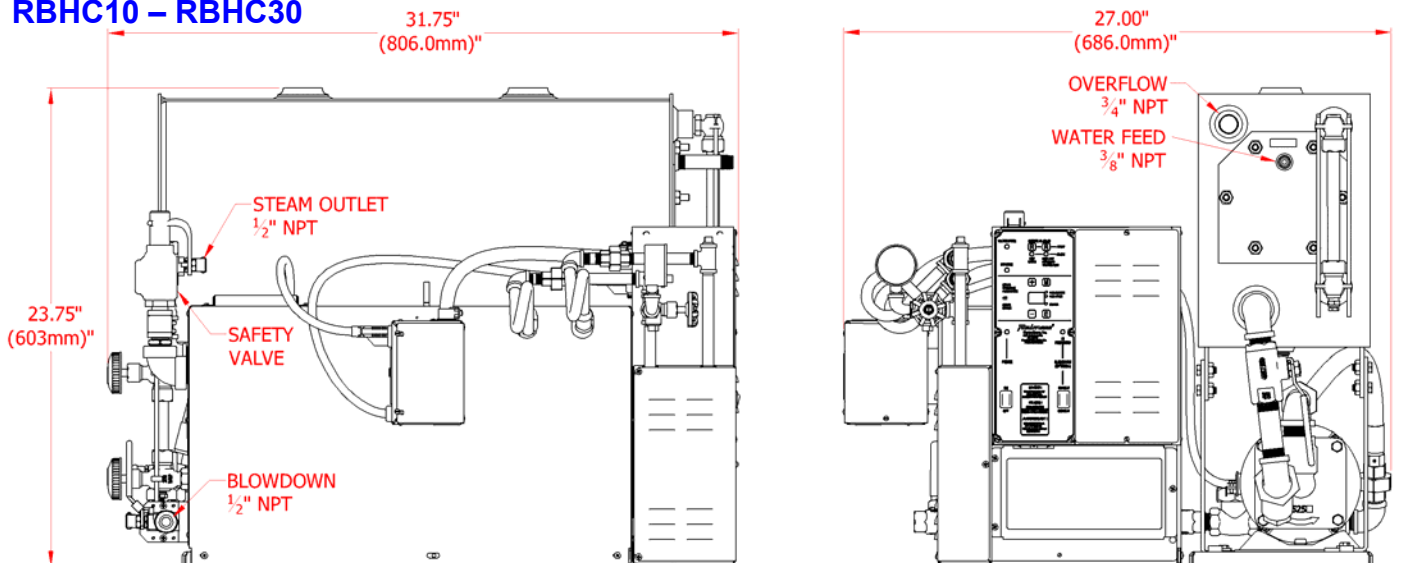
## RB10 – RB30 Models



## RBH10 – RBH30 Models

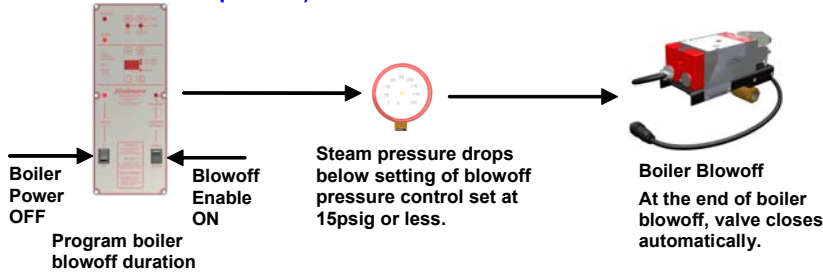


## RBHC10 – RBHC30



# Optional Equipment And Accessories

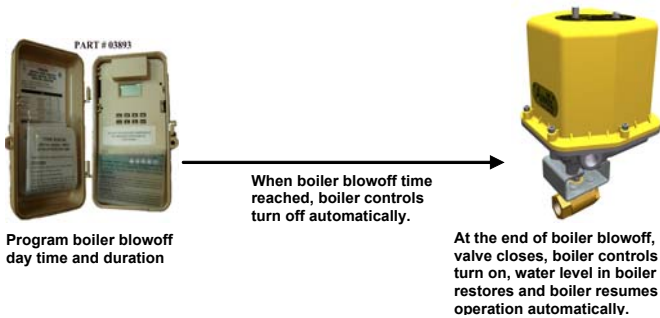
## Pressure Controlled Boiler Blowoff System Automatic Flush & Drain (Not suitable for 24/7 operation) # OPT1016:



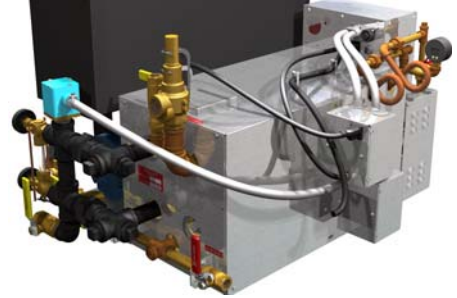
## Auxiliary Low Water Cut-Off with McDonnell & Miller Model MM150, # OPTMM150:



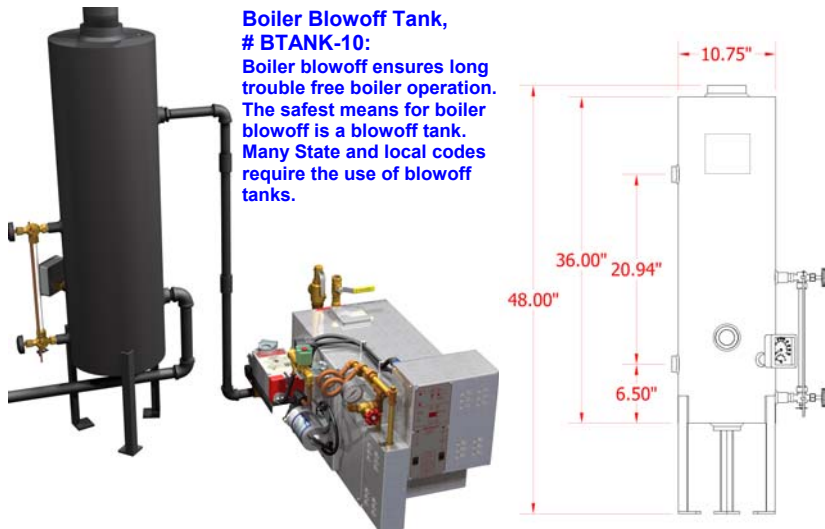
## Timer Controlled Boiler Blowoff System (Suitable for 24/7 operation), # OPT1001:



## Auxiliary Low Water Cut-Off with Warrick Probe Fitting in External Water Column, # OPT1012



**Boiler Blowoff Tank, # BTANK-10:**  
Boiler blowoff ensures long trouble free boiler operation. The safest means for boiler blowoff is a blowoff tank. Many State and local codes require the use of blowoff tanks.



## Automatic Boiler ON/OFF, # OPT1017



**Control Voltage Transformer Options:** When using this option, only main power supply is required to operate boiler.

Boiler Voltage	Transformer Option Part Number	
	RB – and RBH Series	RBHC- Series
208V	OPT1009 – 208RBH	OPT1011- 208RBHC
240V	OPT1009 – 240RBH	OPT1011- 240RBHC
380V	OPT1009 – 380RBH	OPT1011- 380RBHC
415V	OPT1009 – 380RBH	OPT1011- 380RBHC
480V	OPT1009 – 480RBH	OPT1011- 480RBHC
600V	OPT1009 – 600RBH	OPT1011- 600RBHC

## Boiler Wheel Set and Steam Wand for Cleaning Applications.



## Steam Jet Station # 20845



## Brass and Bronze Free Boiler Trim, # OPT1030-RB

RB-Steam boiler models fitted with carbon/stainless steel boiler trim for steam generation with very low lead concentrations. Use this option in food service and other applications where lead concentrations are a concern.



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