



RE10 - RE30 STEAM BOILERS



Features

- Miniature boiler max. vessel volume 1.97ft³
- 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
- All enclosed sleek 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

Standard Equipment of Each Boiler Includes:

- A.S.M.E. pressure relief valve
- One (1) quick opening boiler bottom blowoff valve as per A.S.M.E. Code B31.1
- ½" NPT Bronze steam outlet ball valve
- High pressure feed pump in RBH- and RBHC-models
- Low water cutoff control with manual reset
- One (1) high pressure cutoff control with manual reset
- One (1) operating pressure control
- Magnetic contactors
- Main supply power distribution block
- Indicator lights for POWER, REFILLING, HEATING, ALARMS and Automatic Boiler Blowoff Status
- Pressure and water level gauge

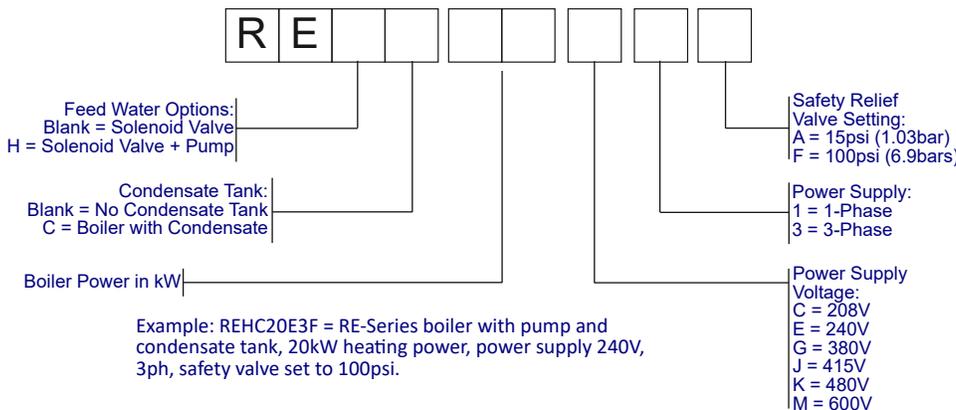
Applications

- Process Steam
- Air Humidification
- Food Service^(*)
- Autoclaves/Sterilizers
- Dry Cleaning
- Laboratories

(*) DIRECT STEAM APPLICATIONS TO FOOD PRODUCTS: Reimers offers stainless steel boilers or #OPT1030 Brass/Bronze free boiler trim option (see Page 5). This alone does not guarantee the production of culinary grade steam. Applicable safety standards (i.e. 3-A T609) must be considered.

HEATING POWER KW	STEAM CAPACITY lbs/hr (kg/hr) ⁽⁴⁾	BHP	VOLTAGE ⁽¹⁾	PHASE	SHIP WEIGHT ⁽³⁾ lbs (kg)	PRESSURE VESSEL CAPACITY GAL. (L)	OPERATING PRESSURE RANGE psi (bar)	STEAM OUTLET (NPT)	
								LP <15psig	HP >15psig
9.4 KW	32 (15)	0.9	380	3	210 (95)	6.8 (25.74)	0 - 85 (0 - 5.86)	1/2	1/2
10 KW	34.1 (15.47)	1.0	208/240/380/415/480/600	3 ⁽²⁾	210 (95)	6.8 (25.74)	0 - 85 (0 - 5.86)	1/2	1/2
10.4 KW	35.5 (16.09)	1.0	600	3	210 (95)	6.8 (25.74)	0 - 85 (0 - 5.86)	1/2	1/2
17.9 KW	61.1 (27.70)	1.8	300	3	210 (95)	6.8 (25.74)	0 - 85 (0 - 5.86)	1/2	1/2
18 KW	61.4 (27.85)	1.8	208/240/380/415/480/600	3 ⁽²⁾	210 (95)	6.8 (25.74)	0 - 85 (0 - 5.86)	1/2	1/2
20 KW	68.2 (30.95)	2.0	208/240/380/415/480/600	3 ⁽²⁾	210 (95)	6.8 (25.74)	0 - 85 (0 - 5.86)	1/2	1/2
20.8 KW	71.0 (32.19)	2.1	600	3	210 (95)	6.8 (25.74)	0 - 85 (0 - 5.86)	1/2	1/2
30 KW	102.4 (46.42)	3.0	208/240/380/415/480/600	3 ⁽²⁾	210 (95)	6.8 (25.74)	0 - 85 (0 - 5.86)	1/2	1/2

Model Number Key



⁽¹⁾ Each boiler model requires two (2) power supplies: Primary heating power and secondary control voltage. Nominal control voltage is 120V, 50/60Hz. Boiler models rated for 380V and 415V are equipped with control voltage transformers that require 220/240V applied to their primary side in order to provide the 120V AC control voltage to the boiler. As an option, all boiler models can be equipped with control voltage transformers so that only the heating power supply needs to be connected to the boiler.

⁽²⁾ Also available in 240V 1PH

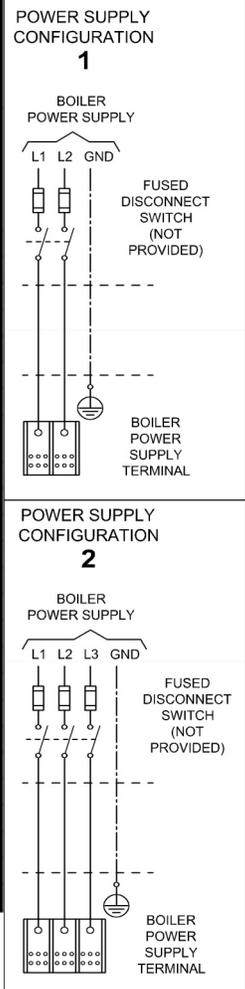
⁽³⁾ On boiler equipped with condensate tank, add 90lbs (41.0kg) to shipping weight

⁽⁴⁾ The STEAM CAPACITY listed above is based on the evaporation rate from and at 212°F, at 0 psig. If the boiler feed water temperature is 50°F, then the STEAM CAPACITY for each model listed above is approximately 15% lower.

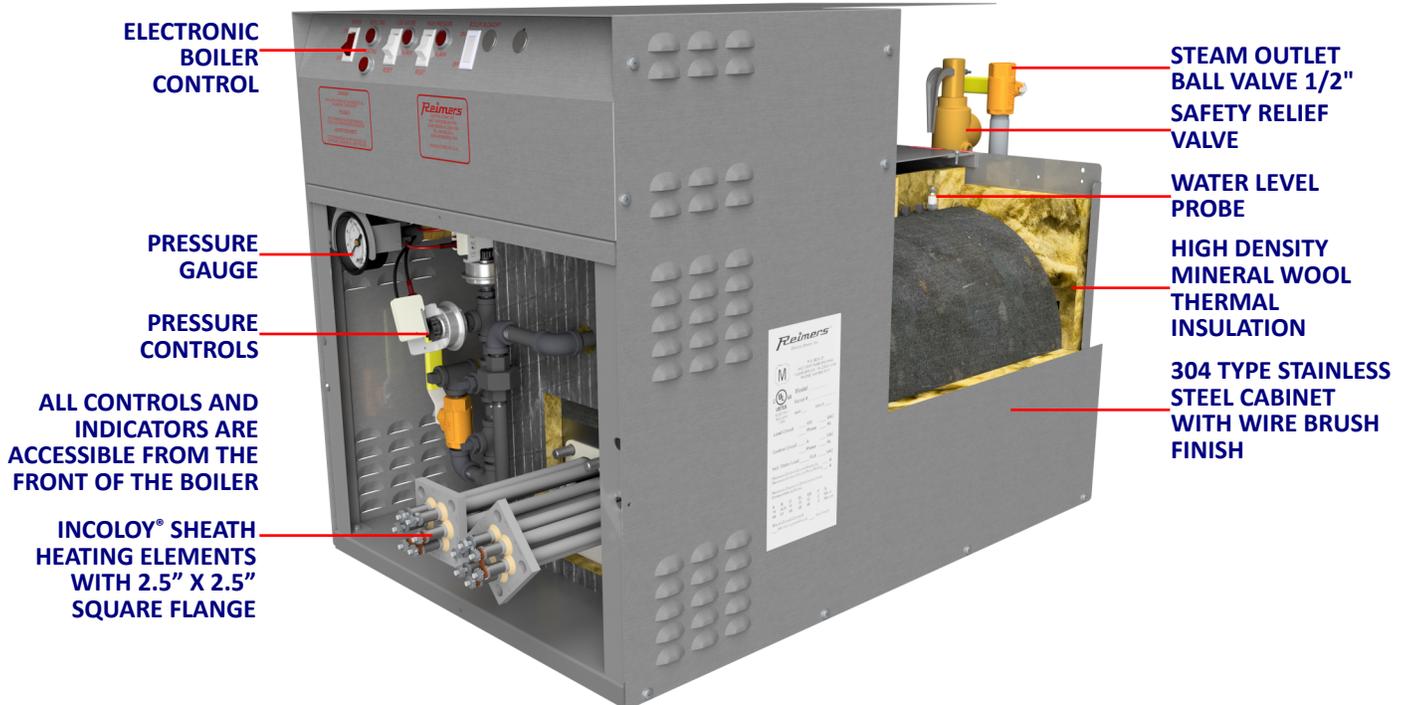
Please note that all information provided within this brochure is approximate and subject to change without notice. Please contact Reimers Electra Steam, Inc. with any questions regarding the specifications or dimensions detailed within.

Electrical Specifications

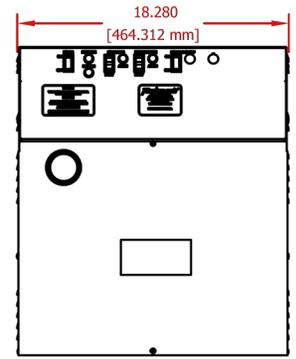
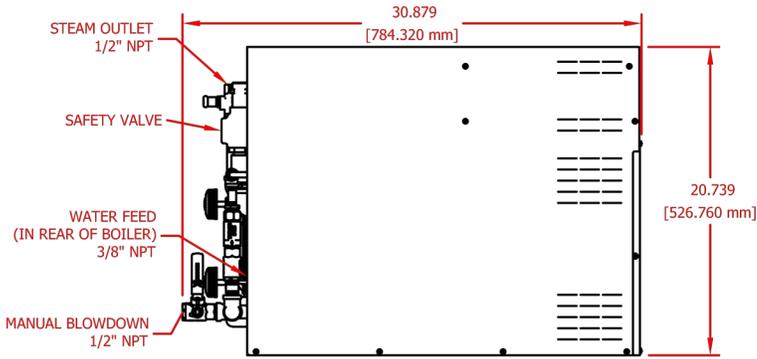
BOILER HEATING POWER	PRIMARY VOLTAGE	PHASE	AMP DRAW	MIN REQ. N.E.C. SERVICE	INTERNAL POWER FUSING	NUMBER & SIZE OF ELEMENTS	POWER SUPPLY	
							MIN. REQUIRED CONDUCTOR SIZE IN BOILER ELECTRICAL ENCLOSURE (*)	CONFIGURATION
KW	V		A	A				
9.4	380	3	14.3	18	NO	1 x 15kW, 480V, 3ph	3 x AWG 12	2
10	208	3	27.8	35	NO	1 x 10kW, 208V, 3ph	3 x AWG 8	2
10	240	1	41.7	52	NO	1 x 10kW, 240V, 1ph	2 x AWG 6	1
10	240	3	24.1	30	NO	1 x 10kW, 240V, 3ph	3 x AWG 10	2
10	415	3	13.9	17	NO	1 x 10kW, 415V, 3ph	3 x AWG 12	2
10	480	3	12.0	15	NO	1 x 10kW, 480V, 3ph	3 x AWG 12	2
10.4	600	3	10.0	13	NO	2 x 10kW, 600V, 3ph	3 x AWG 14	2
17.9	300	3	17.2	22	NO	2 x 15kW, 300V, 3ph + 1 x 15kW, 240V, 3ph	3 x AWG 10	2
18	208	3	50.0	62	NO	2 x 9kW, 208V, 3ph	3 x AWG 6	2
18	240	1	75.0	94	NO	2 x 9kW, 240V, 1ph	3 x AWG 3	2
18	240	3	43.3	54	NO	2 x 9kW, 240V, 3ph	2 x AWG 6	1
18	480	3	21.7	27	NO	2 x 9kW, 480V, 3ph	3 x AWG 10	2
20	208	3	55.5	70	NO	2 x 10kW, 208V, 3ph	3 x AWG 4	2
20	240	1	83.3	104	NO	2 x 10kW, 240V, 1ph	2 x AWG 2	1
20	240	3	48.1	60	NO	2 x 10kW, 240V, 3ph	3 x AWG 6	2
20	415	3	27.8	35	NO	2 x 10kW, 415V, 3ph	3 x AWG 8	2
20	480	3	24.1	30	NO	2 x 10kW, 480V, 3ph	3 x AWG 8	2
20.8	600	3	20.0	25	NO	2 x 15kW, 600V, 3ph	3 x AWG 10	2
30	208	3	83.3	104	NO	2 x 15kW, 208V, 3ph	3 x AWG 2	2
30	240	1	125.0	156	6 x 50A 300V	2 x 15kW, 240V, 1ph	2 x AWG 2/0	1
30	240	3	72.2	90	NO	2 x 15kW, 240V, 3ph	3 x AWG 3	2
30	380	3	45.6	57	NO	2 x 15kW, 380V, 3ph	3 x AWG 6	2
30	415	3	41.7	52	NO	2 x 15kW, 415V, 3ph	3 x AWG 6	2
30	480	3	36.1	45	NO	2 x 15kW, 480V, 3ph	3 x AWG 8	2
30	600	3	28.9	36.0	NO	2 x 15kW, 600V, 3ph	3 x AWG 8	2



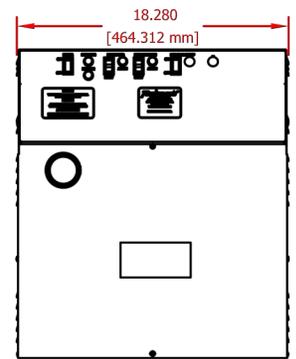
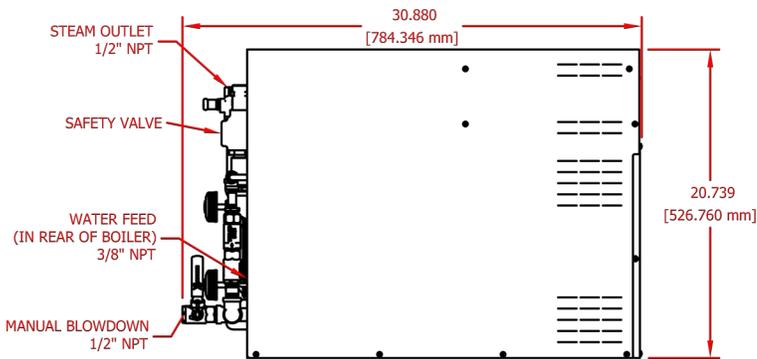
Construction



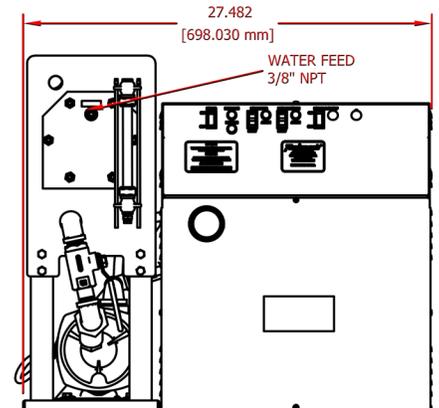
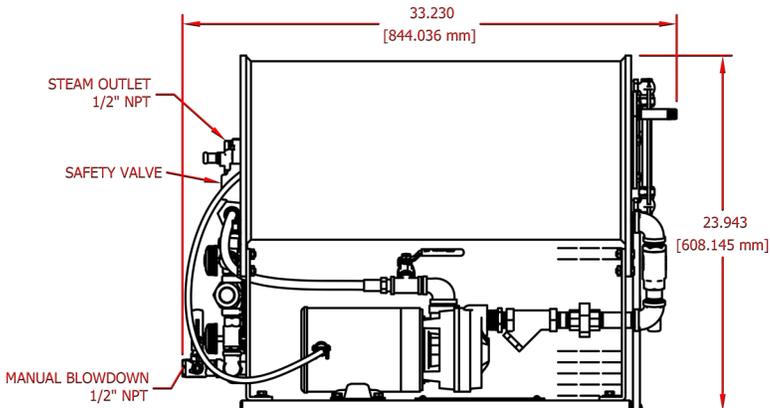
RE10-RE30 MODELS



REH10-REH30 MODELS



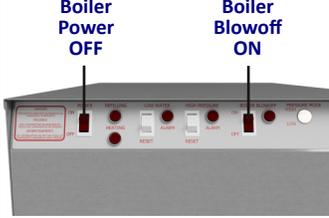
REHC10-REHC30 MODELS



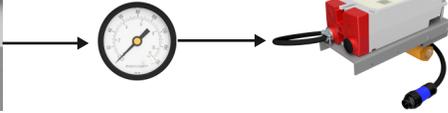
Optional Equipment and Accessories

Pressure Controlled Boiler Blowoff System Automatic Flush & Drain # OPT1016

(Not suitable for 24/7 operation):



Program Boiler Blowoff Duration



Steam pressure drops below setting of blowoff pressure control set at 15psig or less.

Boiler Blowoff Valve
At the end of the boiler blowoff cycle, valve closes automatically.

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



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



Program boiler blowoff day time and duration

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

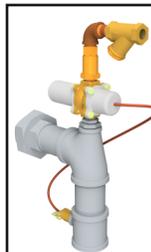
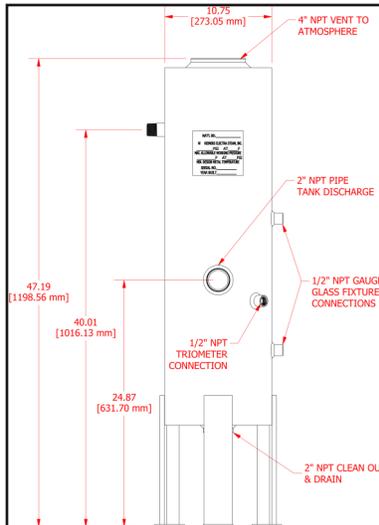


At the end of the boiler blowoff cycle the blowoff valve closes, boiler controls turn on, the water level in boiler restores and boiler resumes operation automatically.

Boiler Blowoff Tank, #BTANK-10:



- 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 1. Each tank bears the National Board Stamp "U". The design pressure is 3 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 tank discharge line when boiler operates with one of the above automatic blowoff options.

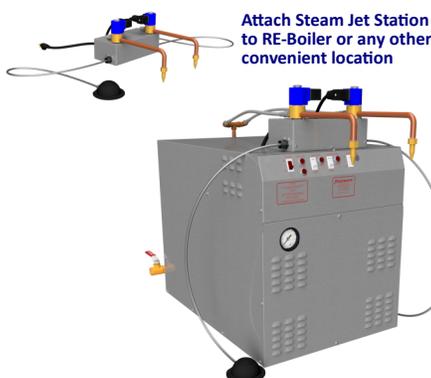
Control Voltage Transformer Options: Use one of these options for point boiler power supply.

Boiler Voltage	Transformer Option Part Number	
	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



Attach Steam Jet Station to RE-Boiler or any other convenient location

Steam Filter for Culinary Steam Applications, #OPT1032:

Use this filter with FDA listed materials in food processing applications where the steam comes in direct contact with food. The 3 or 5 micron cartridges employed in this steam filter meet or exceed the 3-A guidelines for the production of Culinary Steam under Accepted Practice T609. NOTE: The installation of this filter alone does not guarantee that the steam produced by your system meets all applicable culinary steam standards.

Timer Controlled Boiler On/Off, #OPT1017

