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SRX40 – 120 Stainless Steel Steam Boiler Series

Features

- Miniature boiler max. vessel volume 5ft^3
- Maximum safety valve setting 100psi
- Al 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".
- Dry pure saturated steam, operating pressure range 0 – 85psig
- Heavy duty 304 or 316 stainless steel pressure vessel. Vessel jacket and electrical enclosure 304 stainless
- Pacified pressure vessel and heating elements
- Large selection of optional equipment

Applications

- Clean Steam Generator for Autoclaves
- Ultra Pure Steam for Medical Research, Pharmaceutical and Cosmetics
- Pure Steam Humidifier
- Steam Sterilizing
- Food Service
- Laboratories

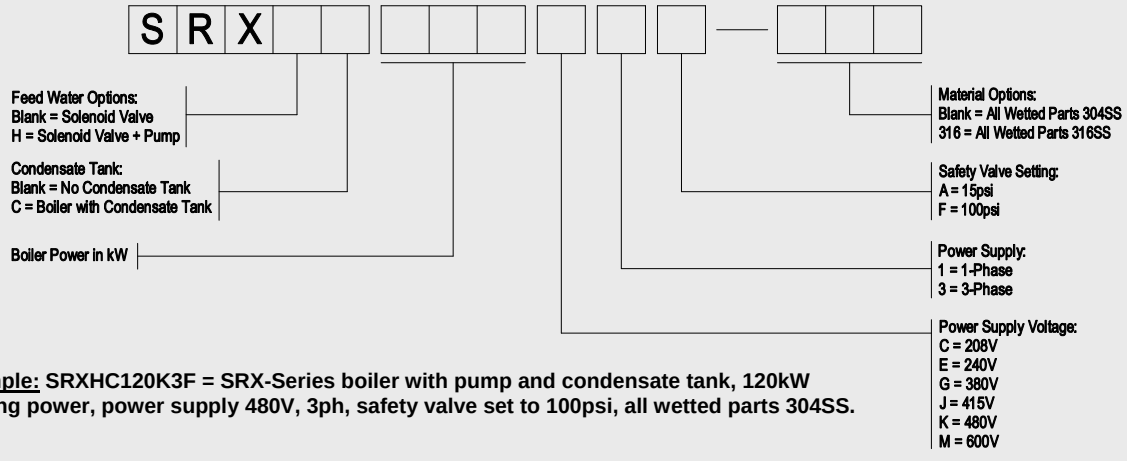
Standard equipment of each boiler includes: Low water cutoff control with manual reset, high pressure cutoff control with manual reset, two (2) operating pressure controls for all models, gauge glass set, pressure gauge and safety valve.

SRX SERIES LOW & HIGH PRESSURE STEAM BOILERS

KW	LB/HR	BHP	VOLTAGE*	PHASE	SHIP WT. LB	OP. PRESS. RANGE	MBTU/HR	Steam Outlet (NPT)	
								LP	HP
40 KW	139	4.0	208/240/380/415/480/600	3	442	0-85 PSIG	134	1	3/4
60 KW	208	6.0	208/240/380/415/480/600	3	474	0-85 PSIG	202	1 1/4	1
80 KW	278	8.0	208/240/380/415/480/600	3	484	0-85 PSIG	270	1 1/4	1
120 KW	417	12.0	208/240/380/415/480/600	3	784	0-85 PSIG	405	2	1 1/4

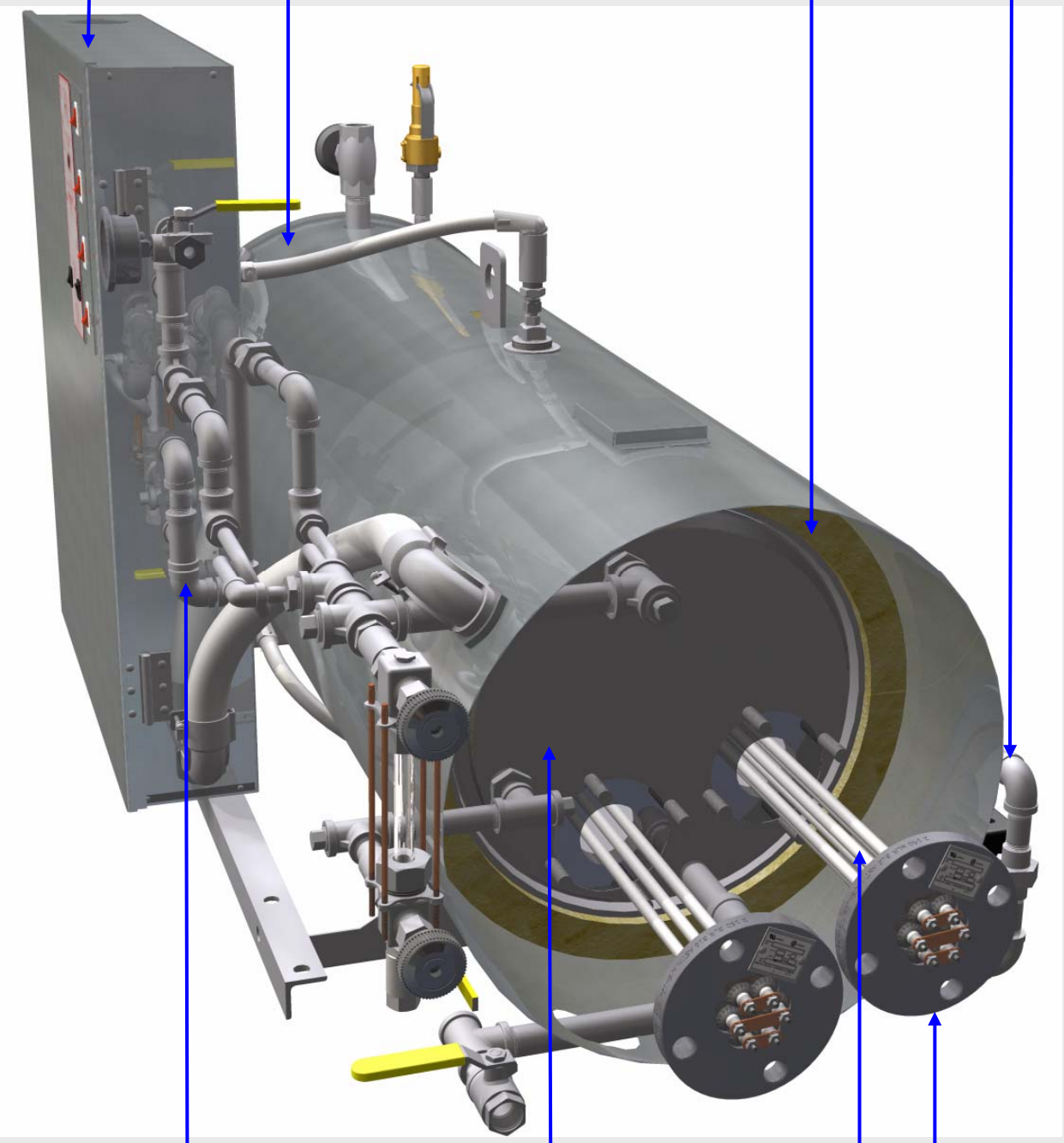
*** Each boiler model requires two (2) power supplies: Primary heating power and secondary control voltage. Nominal control voltage is 120V, 60Hz. When boiler equipped with transformer option, only heating power supply required. When boiler is equipped with transformer option, only heating power supply required.**

Model Number Key



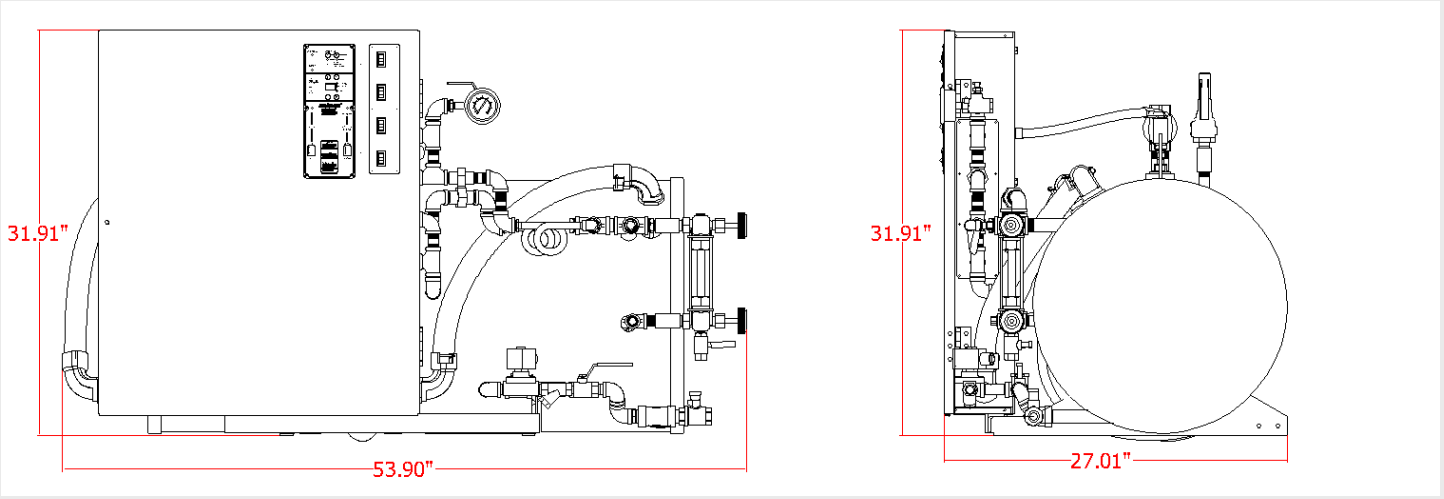
Example: SRXHC120K3F = SRX-Series boiler with pump and condensate tank, 120kW heating power, power supply 480V, 3ph, safety valve set to 100psi, all wetted parts 304SS.

Construction

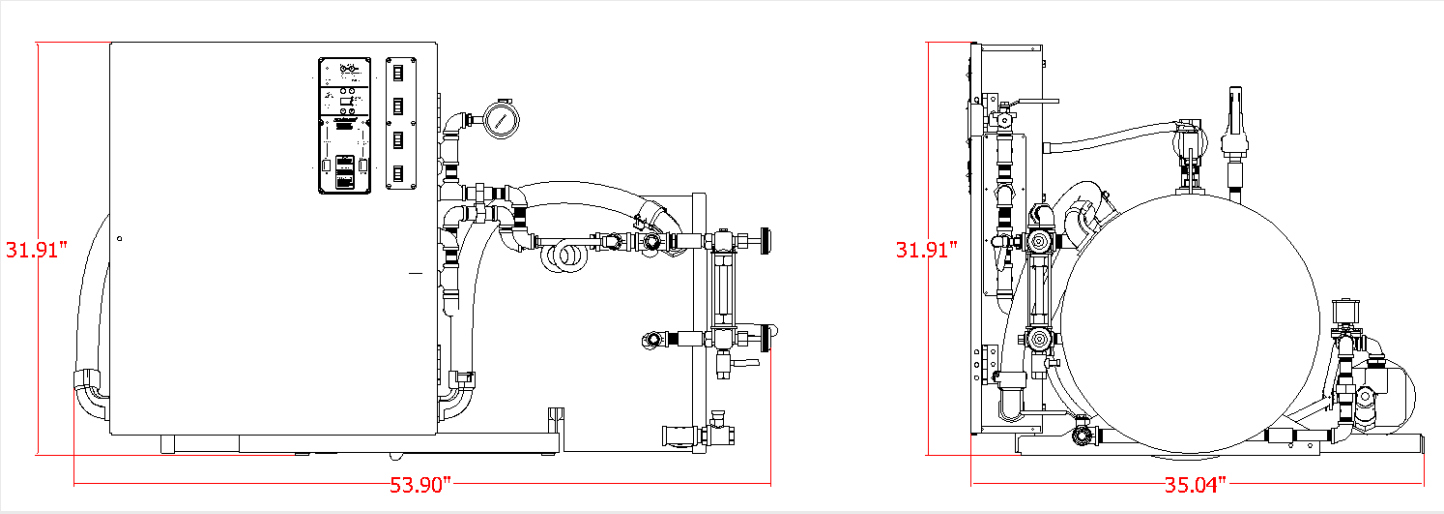


Overall Dimensions

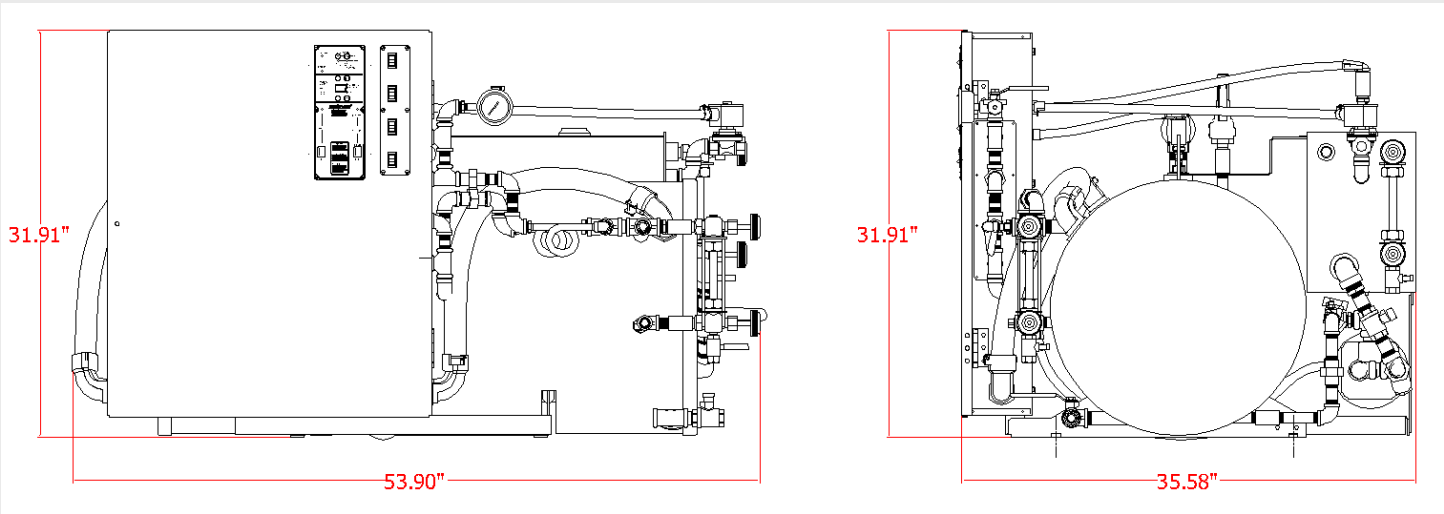
SRX40 – SRX80 Models



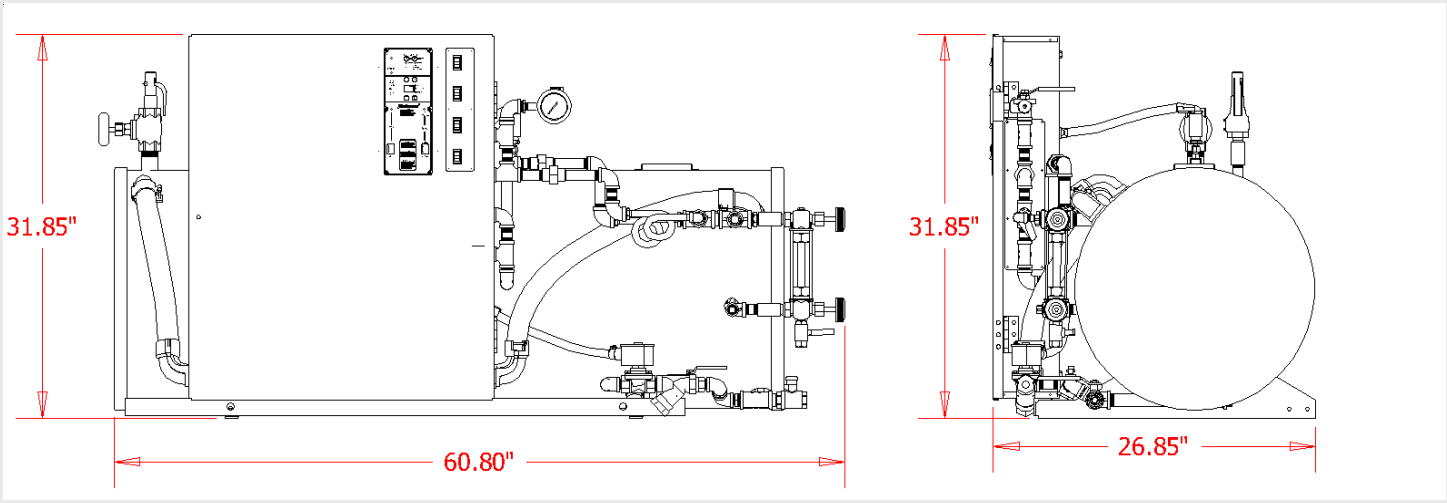
SRXH40 – SRXH80



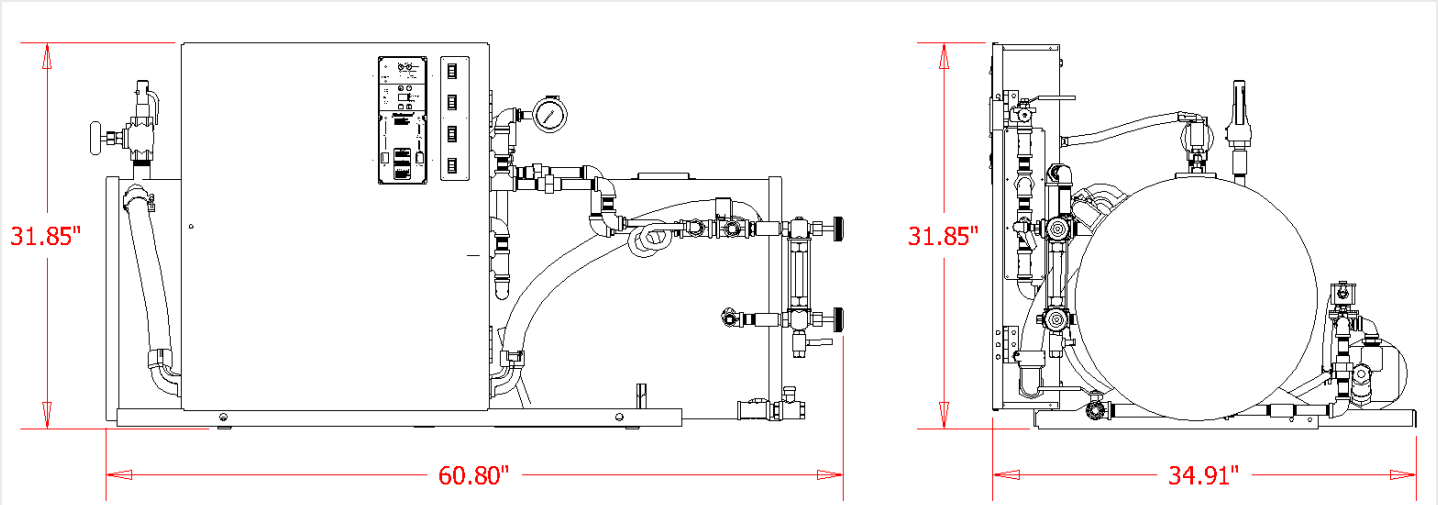
SRXHC40 – SRXHC80



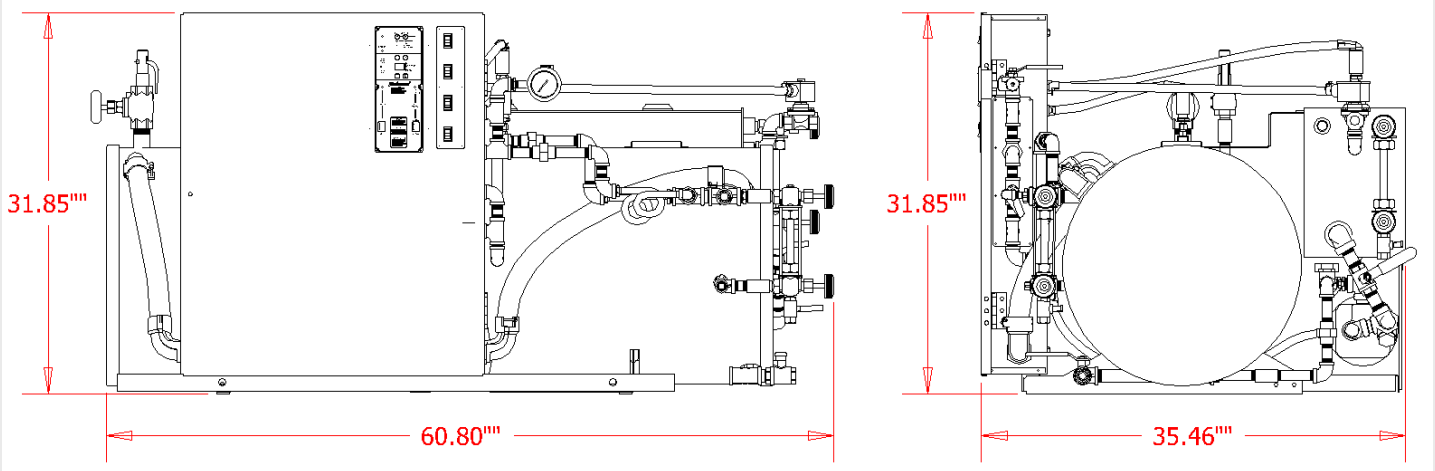
SRX120



SRXH120

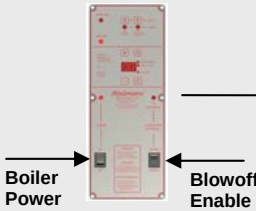


SRXHC120



Optional Equipment

1. #OPT1016 : Automatic Flush & Drain Pressure Controlled Boiler Blowoff System



Boiler Power OFF

Blowoff Enable ON

Program boiler blowoff duration

This system is not suitable for 24/7 boiler operation

Steam pressure drops below setting of blowoff-pressure control.

Boiler Blowoff

At the end of boiler blowoff, valve closes automatically.

2. #OPT1001: Timer Controlled Boiler Blowoff System

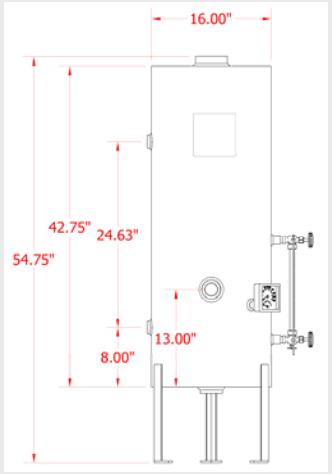
Program boiler blowoff day time and duration

This system is suitable for 24/7 boiler operation

When boiler blowoff time reached, boiler controls turn off automatically.

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

3. #BTANK-16: Blowoff Tank

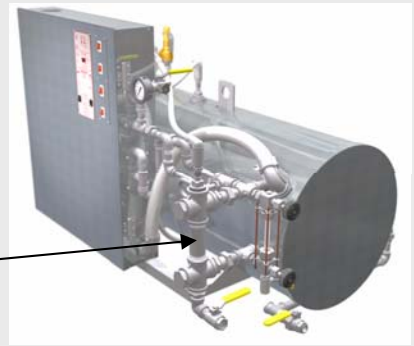


4. Control Voltage Transformer. When using this option, only main power supply required to operate boiler.

Boiler Voltage	Transformer Option Part Number	
	Boiler Model	
	SRX-	SRXH- and SRXHC-
208V	OPT1010 - 208R	OPT1011 - 208RH
240V	OPT1010 - 240R	OPT1011 - 240RH
380V	OPT1010 - 380 - 415R	OPT1011 - 380 - 415RH
415V	OPT1010 - 380 - 415R	OPT1011 - 380 - 415RH
480V	OPT1010 - 480R	OPT1011 - 480RH
600V	OPT1010 - 600R	OPT1011 - 600RH

5. #OPT1012-SS Auxiliary Low Water Cut-Off:

External water column with stainless steel Float control

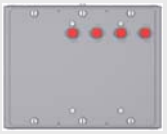


6. PID Operating Pressure Control, #20802

316SS Pressure Transducer

PID-Controller

4-Stage Step Control



- Increase accuracy of boiler operating steam pressure
- Decrease electrical load switching surges
- Increase life expectancy of heating element contactors

7. Timer Controlled Boiler On/Off, #OPT1017

8. Boiler Stacking

Minimize floor space by operating two boilers in parallel.

Boiler Model	Stacking Frame
SRX, SRXH, SRXHC-40	20292-4
SRX, SRXH, SRXHC60-80	20292-13
SRX, SRXH, SRXHC100-120	20293-3

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	A				AWG/MCM	
SRX-40	208	3	111.0	2 x 20kW	2 x 75A	6 x 70A, 250V	3 x 1/0AWG	1 x 1-1/2”
	240	3	96.2		2 x 75A	6 x 60A, 600V	3 x 1AWG	1-1/4”
	240	1	166.7		4 x 50A	12 x 40A, 250V	3 x 4/0AWG	1 x 2”
	380	3	60.8		2 x 50A	6 x 40A, 600V	3 x 4AWG	1 x 1”
	415	3	55.6		2 x 50A	6 x 40A, 600V	3 x 4AWG	1 x 1”
	480	3	48.1		2 x 50A	6 x 30A, 600V	3 x 6AWG	1 x ¾”
	600	3	38.5		2 x 50A	6 x 30A, 600V	3 x 8AWG	1 x ¾”
SRX-60	208	3	166.5	3 x 20kW	3 x 75A	9 x 70A, 250V	3 x 4/0AWG	1 x 2”
	240	3	144.3		3 x 75A	9 x 60A, 250V	3 x 3/0AWG	1 x 2”
	380	3	91.2		3 x 50A	9 x 40A, 600V	3 x 1AWG	1 x 1-1/4”
	415	3	83.5		3 x 50A	9 x 40A, 600V	3 x 2AWG	1 x 1-1/4”
	480	3	72.2		3 x 50A	9 x 30A, 600V	3 x 3AWG	1 x 1”
	600	3	57.7		3 x 50A	9 x 30A, 600V	3 x 4AWG	1 x 1”
SRX-80	208	3	222.1	4 x 20kW	4 x 75A	12 x 70A, 250V	3 x 350MCM	1 x 2-1/2”
	240	3	192.5		4 x 75A	12 x 60A, 250V	3 x 250MCM	1 x 2”
	380	3	121.5		4 x 50A	12 x 40A, 600V	3 x 2/0AWG	1 x 1-1/2”
	415	3	111.3		4 x 50A	12 x 40A, 600V	3 x 1/0AWG	1 x 1-1/2”
	480	3	96.2		4 x 50A	12 x 30A, 600V	3 x 1AWG	1 x 1-1/4”
	600	3	77.0		4 x 50A	12 x 30A, 600V	3 x 3AWG	1 x 1”
SRX-120	208	3	333.1	4 x 30kW	4 x 93A	12 x 100A, 250V	6 x 4/0AWG	1 x 2-1/2”
	240	3	288.7		4 x 75A	12 x 90A, 250V	3 x 500MCM	1 x 2-1/2”
	380	3	182.3		4 x 50A	12 x 60A, 600V	3 x 4/0AWG	1 x 2”
	415	3	166.9		4 x 50A	12 x 60A, 600V	3 x 4/0AWG	1 x 2”
	480	3	144.3		4 x 50A	12 x 50A, 600V	3 x 3/0AWG	1 x 2”
	600	3	115.5		4 x 50A	12 x 40A, 600V	3 x 1AWG	1 x 1-1/2”