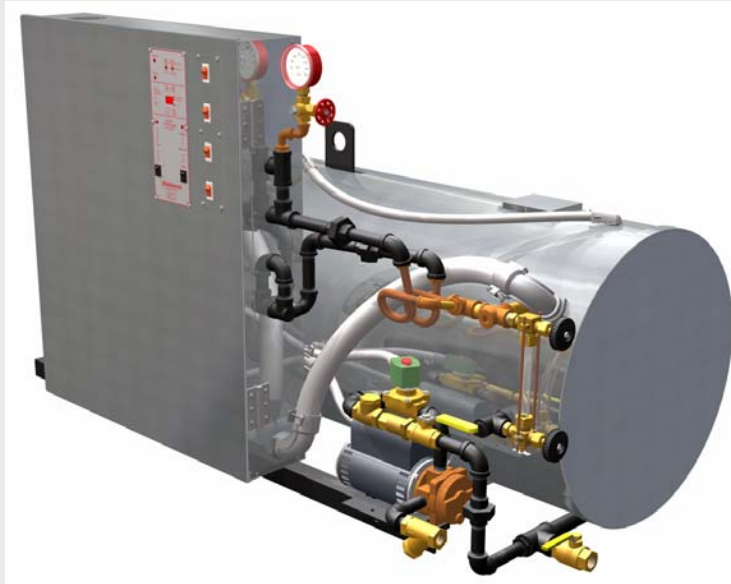


RX36 – RX120 Steam Boiler Series



Features

- Miniature boiler max. vessel volume 5ft³
- 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".
- Dry saturated steam, operating pressure range 0 – 85psi
- Heavy duty carbon steel pressure vessel. Vessel jacket and electrical enclosure 316stainless
- Large selection of optional equipment

Applications

- Process steam
- Autoclaves
- Air humidification
- Dry cleaning
- Food service
- Laboratories

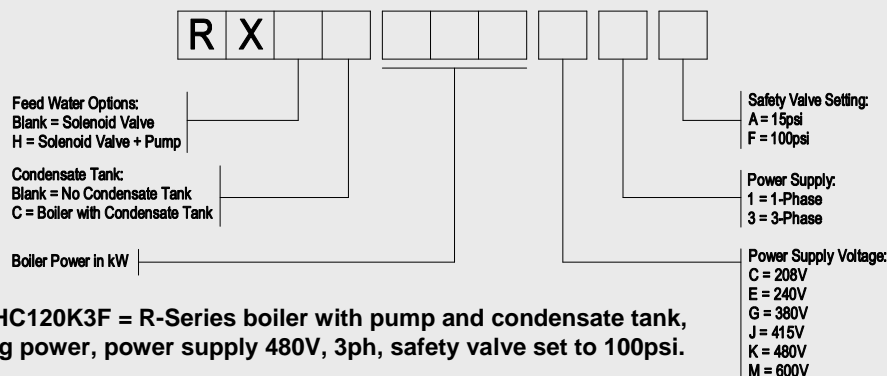
Standard equipment of each boiler includes: Low water cutoff control with manual reset, high pressure cutoff control with manual reset, high water cut-off control with automatic or manual reset, one (1) operating pressure control for all models equipped with two heating elements, two (2) staged operating pressure controls for all models equipped with three or four heating elements.

R SERIES LOW & HIGH PRESSURE STEAM BOILERS									
KW	LB/HR	BHP	VOLTAGE*	PHASE	SHIP WT. LB	OP. PRESS. RANGE	BTU/HR	Steam Outlet (NPT)	
								LP	HP
36 KW	125	3.6	208/240**/480/600	3	474	0-85 PSIG	122,800	1	3/4
40 KW	139	4.0	208/240/380/415/480/600	3	474	0-85 PSIG	136,480	1	3/4
54 KW	187	5.4	208/240/480/600	3	474	0-85 PSIG	184,248	1 1/4	3/4
60 KW	208	6.0	208/240/380/415/480/600	3	474	0-85 PSIG	204,720	1 1/4	1
72 KW	250	7.2	208/240/480/600	3	489	0-85 PSIG	245,664	1 1/4	1
80 KW	278	8.0	208/240/380/415/480/600	3	489	0-85 PSIG	272,960	1 1/4	1
100 KW	348	10.0	208/240/380/415/480/600	3	784	0-85 PSIG	341,200	1 1/4	1 1/4
120 KW	417	12.0	208/240/380/415/480/600	3	784	0-85 PSIG	409,440	2	1 1/4

* 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.

** Also available in 240V 1PH

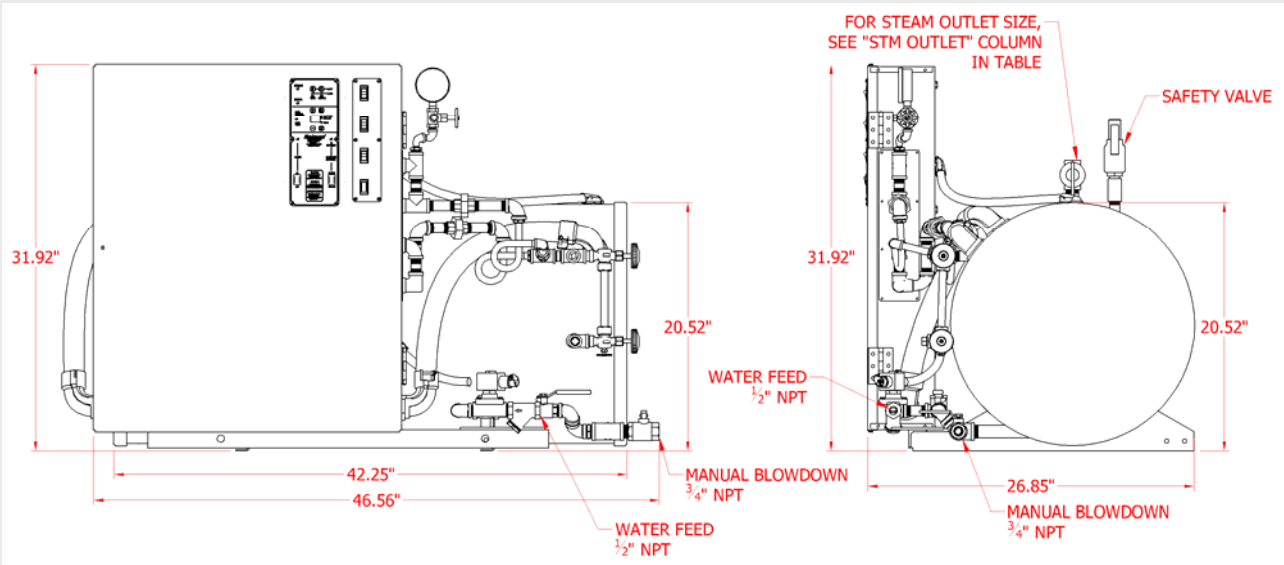
Model Number Key



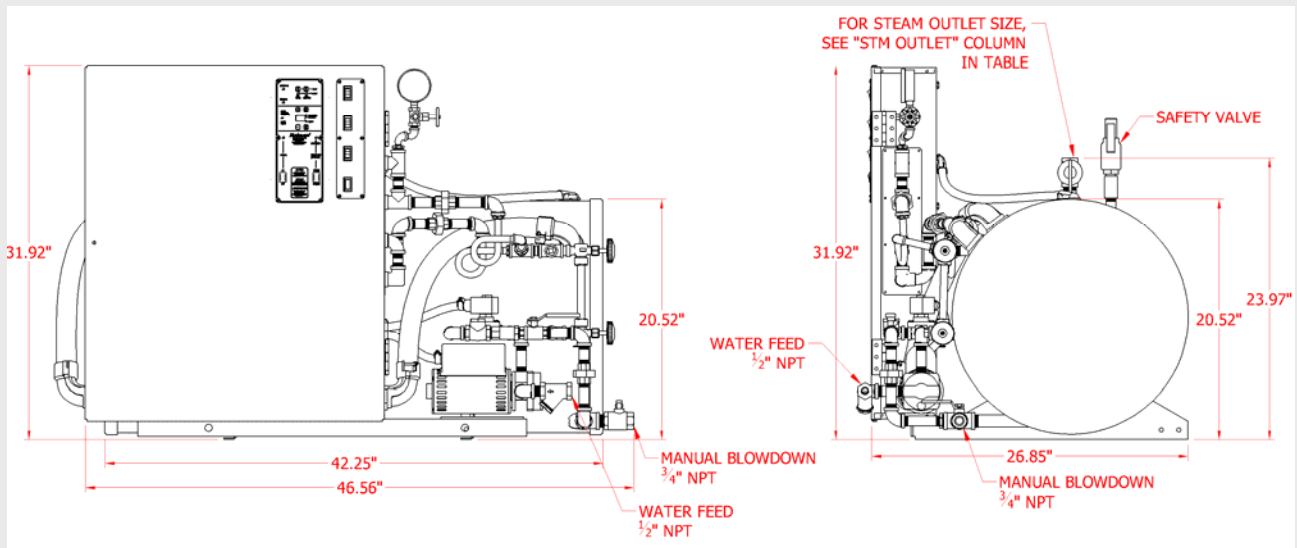
Example: RXHC120K3F = R-Series boiler with pump and condensate tank, 120kW heating power, power supply 480V, 3ph, safety valve set to 100psi.

Overall Dimensions

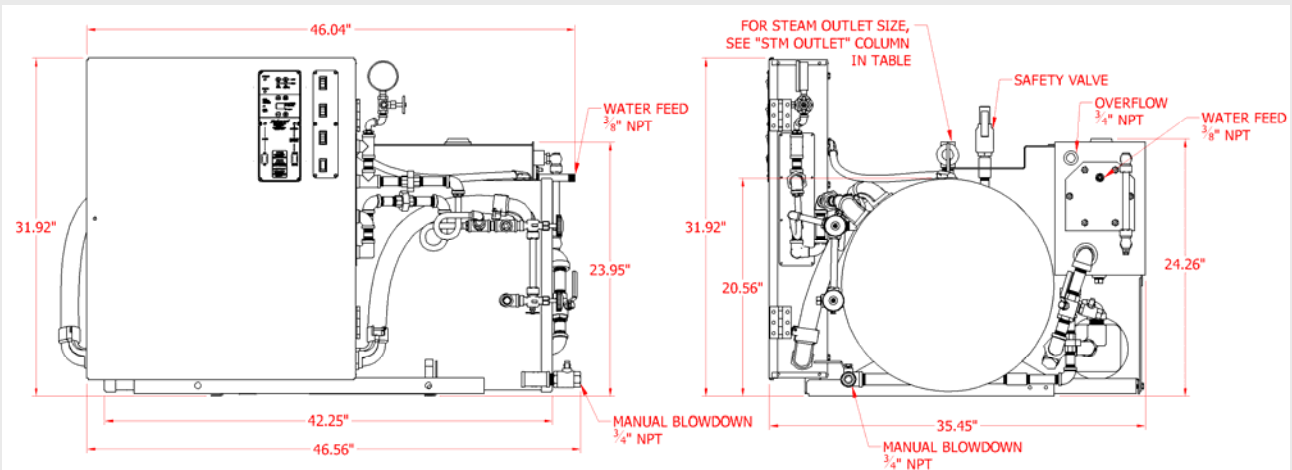
RX36 – RX80 Models



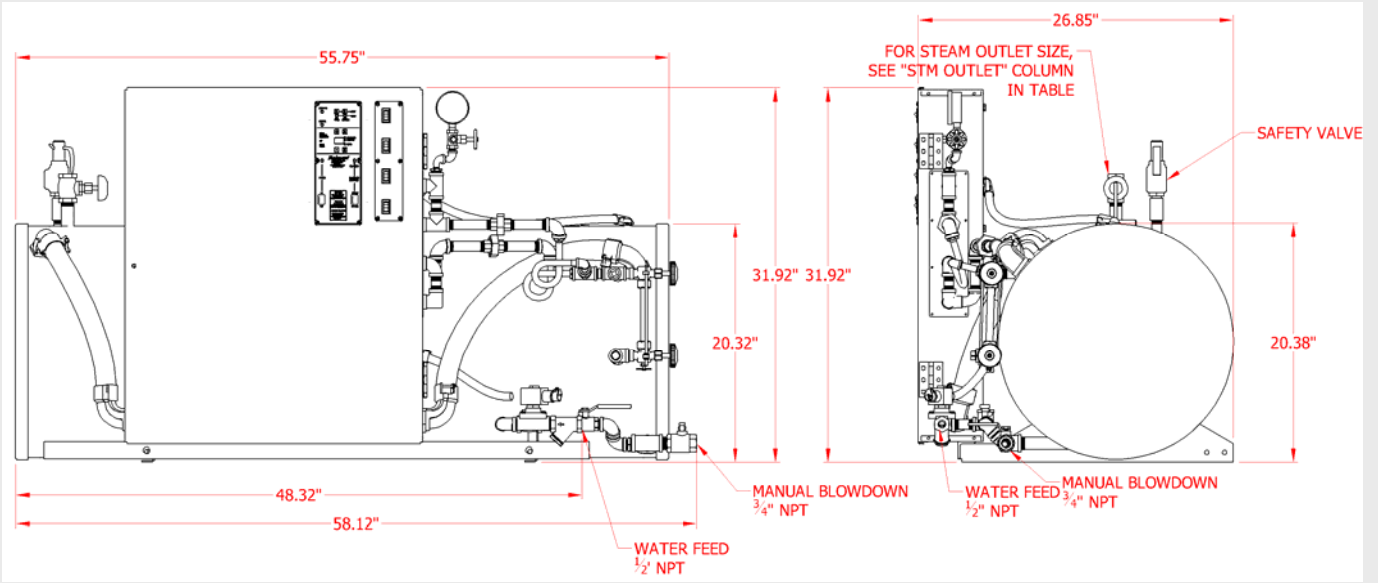
RXH36 – RXH80



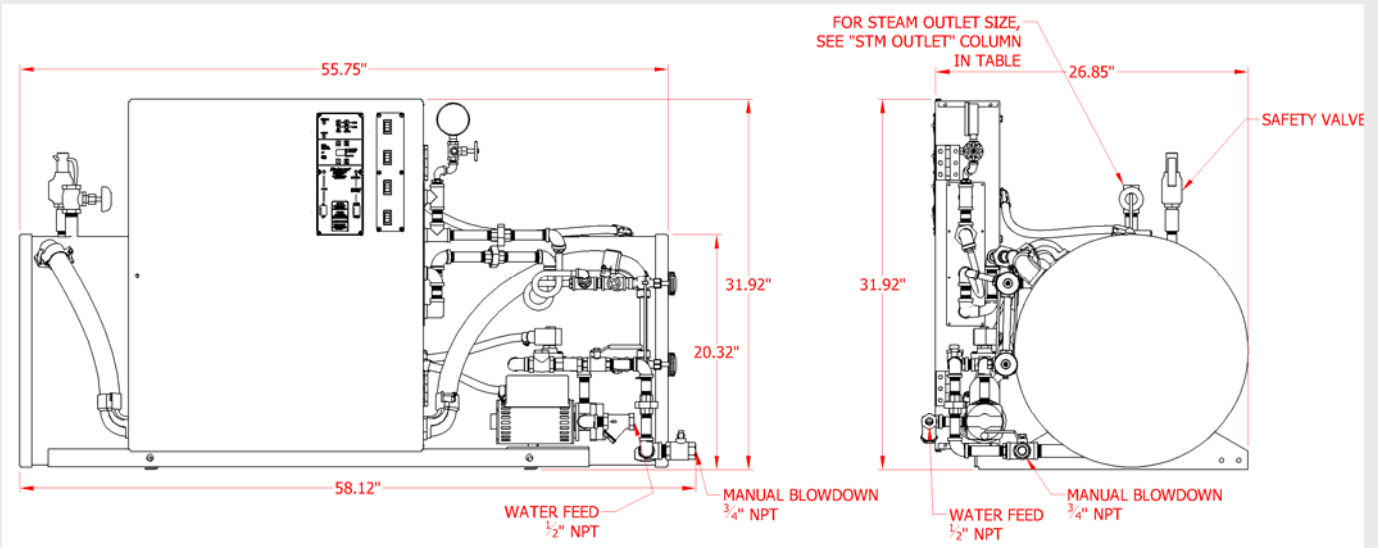
RXHC36 – RXHC80



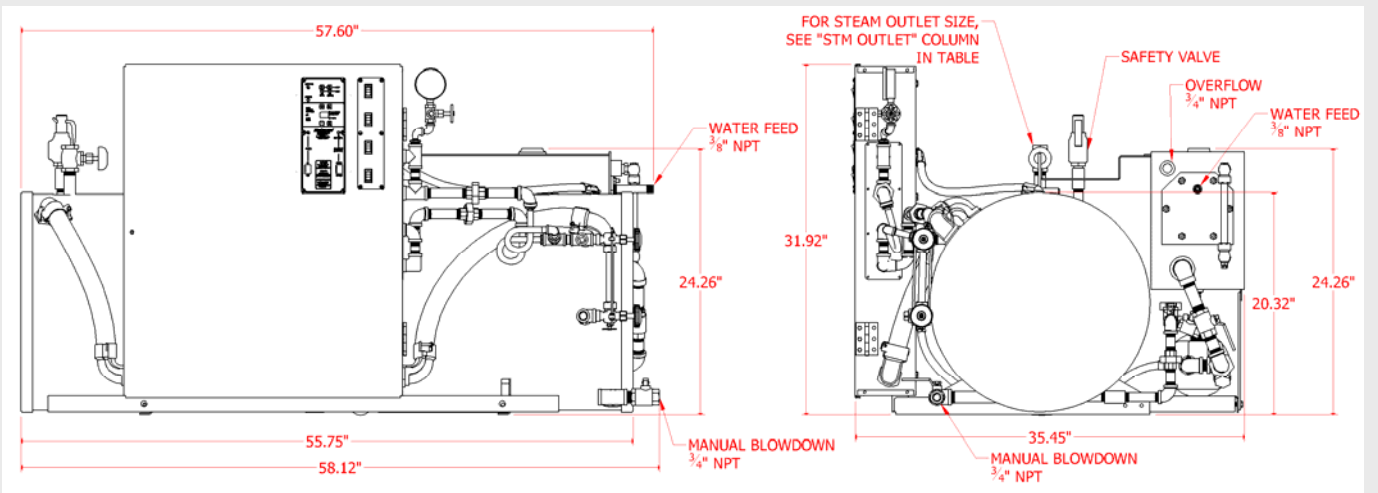
RX100 – RX120



RXH100 – RXH120

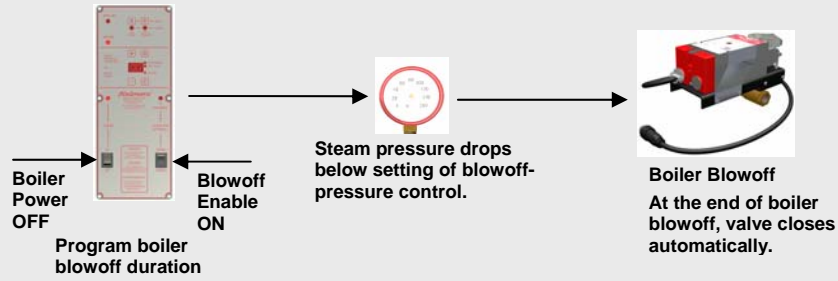


RXHC100 – RXHC120

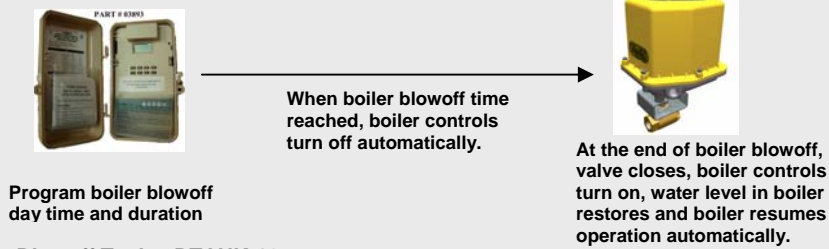


Optional Equipment

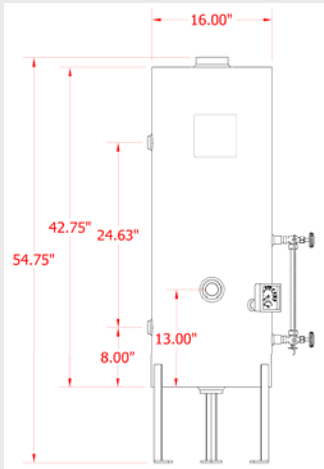
1. Pressure Controlled Boiler Blowoff System (Automatic Flush & Drain), #OPT1016 :



2. Timer Controlled Boiler Blowoff System, #OPT1001:



3. Blowoff Tank, #BTANK-16:



Blowoff tank dimensions

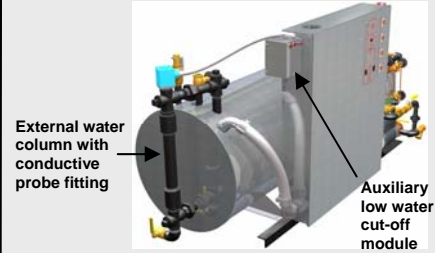


Typical blowoff tank installation

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

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

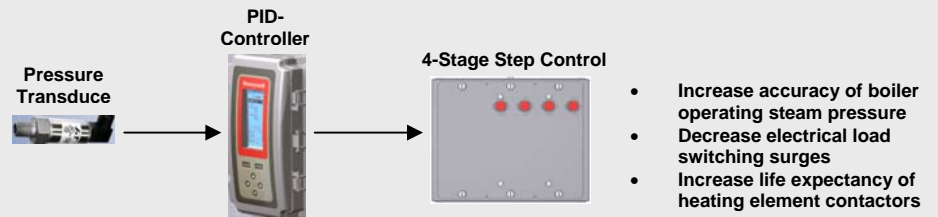
5. Auxiliary Low Water Cut-Off: #OPT1012



#OPTMM150



6. PID Operating Pressure Control, #20802



7. Timer Controlled Boiler On/Off, #OPT1017



8. Boiler Stacking:



Boiler Model	Stacking Frame
RX, RXH, RXHC36-54	20292-4
RX, RXH, RXHC60-72	20292-13
RX, RXH, RXHC100-120	20293-3

Operate two boilers in parallel for higher steam loads and save floor space.

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	
RX-36	208	3	100.0	2 x 18kW	2 x 75A	6 x 60A, 250V	3 x 1AWG	1 x 1-1/4"
	240	3	86.6		2 x 50A	6 x 60A, 250V	3 x 2AWG	1 x 1-1/4"
	240	1	150.0		2 x 75A	6 x 60A, 250V	3 x 3/0AWG	1 x 2"
	480	3	43.3		2 x 50A	6 x 30A, 600V	3 x 6AWG	1 x 3/4"
	600	3	34.6		2 x 50A	6 x 20A, 600V	3 x 8WAG	1 x 3/4"
RX-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 3/4"
	600	3	38.5		2 x 50A	6 x 30A, 600V	3 x 8AWG	1 x 3/4"
RX-54	208	3	149.9	3 x 18kW	3 x 75A	9 x 60A, 250V	3 x 3/0AWG	1 x 2"
	240	3	129.9		3 x 50A	9 x 60A, 250V	3 x 2/0AWG	1 x 1-1/2"
	480	3	65.0		3 x 50A	9 x 30A, 600V	3 x 4AWG	1 x 1"
	600	3	52.0		3 x 50A	9 x 30A, 600V	3 x 4AWG	1 x 1"
RX-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"
RX-72	208	3	199.9	4 x 18kW	4 x 75A	12 x 60A, 250V	3 x 250MCM	1 x 2"
	240	3	173.2		4 x 50A	12 x 60A, 250V	3 x 4/0AWG	1 x 2"
	480	3	86.6		4 x 50A	12 x 30A, 600V	3 x 2AWG	1 x 1-1/4"
	600	3	69.3		4 x 50A	12 x 30A, 600V	3 x 3AWG	1 x 1"
RX-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"
RX-100	208	3	250.2	4 x 25kW	4 x 75A	12 x 80A, 250V	3 x 400MCM	1 x 2-1/2"
	240	3	240.6		4 x 75A	12 x 80A, 250V	3 x 350MCM	1 x 2-1/2"
	380	3	151.9		4 x 50A	12 x 50A, 600V	3 x 3/0AWG	1 x 2"
	415	3	139.1		4 x 50A	12 x 50A, 600V	3 x 2/0AWG	1 x 1 1/2"
	480	3	120.3		4 x 50A	12 x 40A, 600V	3 x 2/0AWG	1 x 1 1/2"
	600	3	96.2		4 x 50A	12 x 30A, 600V	3 x 1AWG	1 x 1-1/4"
RX-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"