

RX36 – 120 Steam Boiler Series



ASME
CSD-1
CRN



Features

- Miniature boiler
Max. vessel volume 5ft³
Max. safety valve setting 100psi
- 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

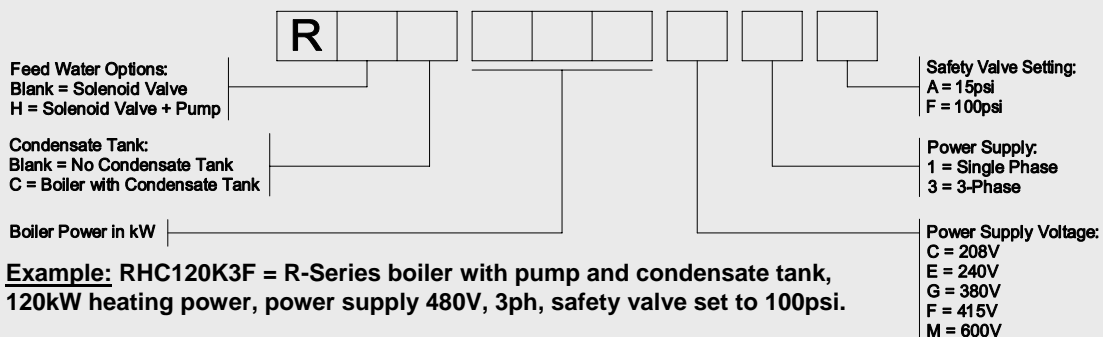
Standard equipment of each boiler includes: Low water cutoff control with manual reset, high pressure cutoff control with manual reset, one (1) operating pressure control for all models with total Amp draw less than 120Amps, two (2) staged operating pressure controls for all models with Amp draw over 120Amps, gauge glass set, pressure gauge and safety valve.

R 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
36 KW	125	3.6	208/240/380**/415**/480/600	1-3	500	0-85 PSIG	121	1	3/4
40 KW	139	4.0	208/240/380**/415**/480/600	3	500	0-85 PSIG	134	1	3/4
54 KW	187	5.4	208/240/380**/415**/480/600	3	535	0-85 PSIG	181	1 1/4	3/4
60 KW	208	6.0	208/240/380**/415**/480/600	3	580	0-85 PSIG	202	1 1/4	1
72 KW	250	7.2	208/240/380**/415**/480/600	3	580	0-85 PSIG	243	1 1/4	1
80 KW	278	8.0	208/240/380**/415**/480/600	3	580	0-85 PSIG	270	1 1/4	1
100 KW	348	10.0	208/240/380**/415**/480/600	3	900	0-85 PSIG	337	1 1/4	1 1/4
120 KW	417	12.0	208/240/380**/415**/480/600	3	900	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 for UL/CSA models is 120V, 60Hz, for non-cULus models nominal control voltage is 220-240V, 50Hz. When boiler equipped with transformer option, only heating power supply required.

** No UL/CSA Approval

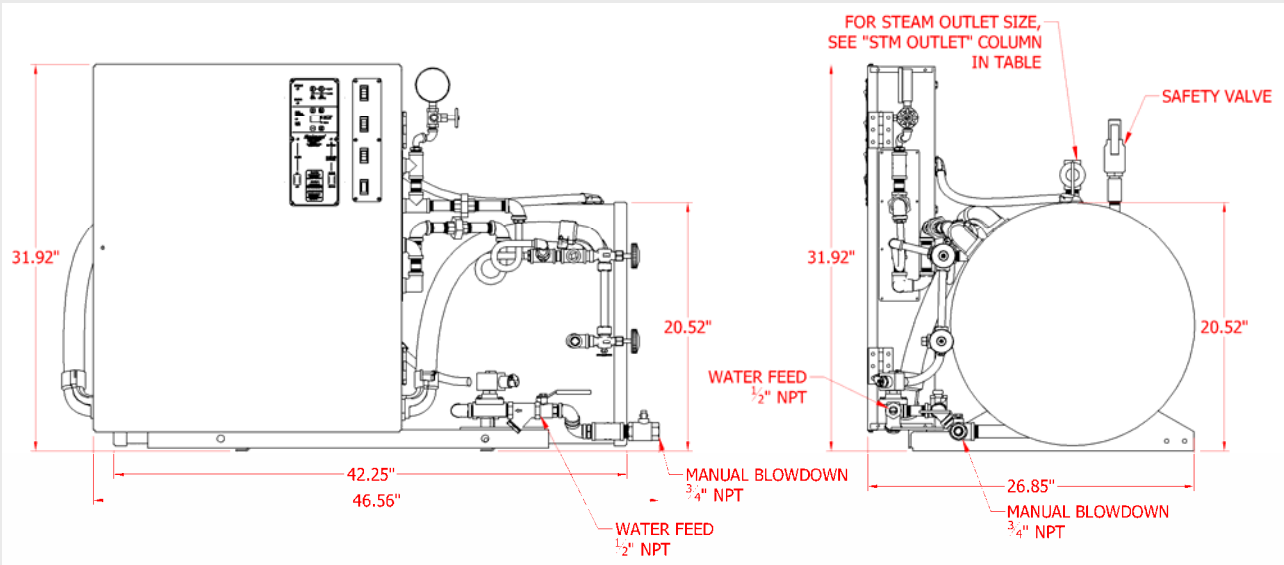
Model Number Key



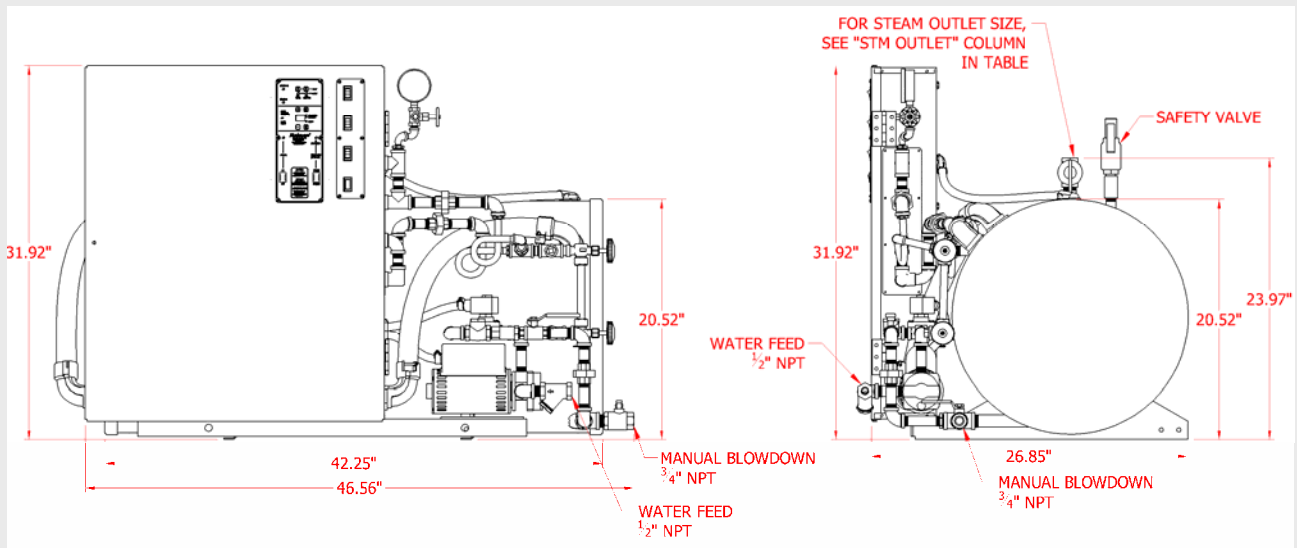
Example: RHC120K3F = R-Series boiler with pump and condensate tank, 120kW heating power, power supply 480V, 3ph, safety valve set to 100psi.

Overall Dimensions

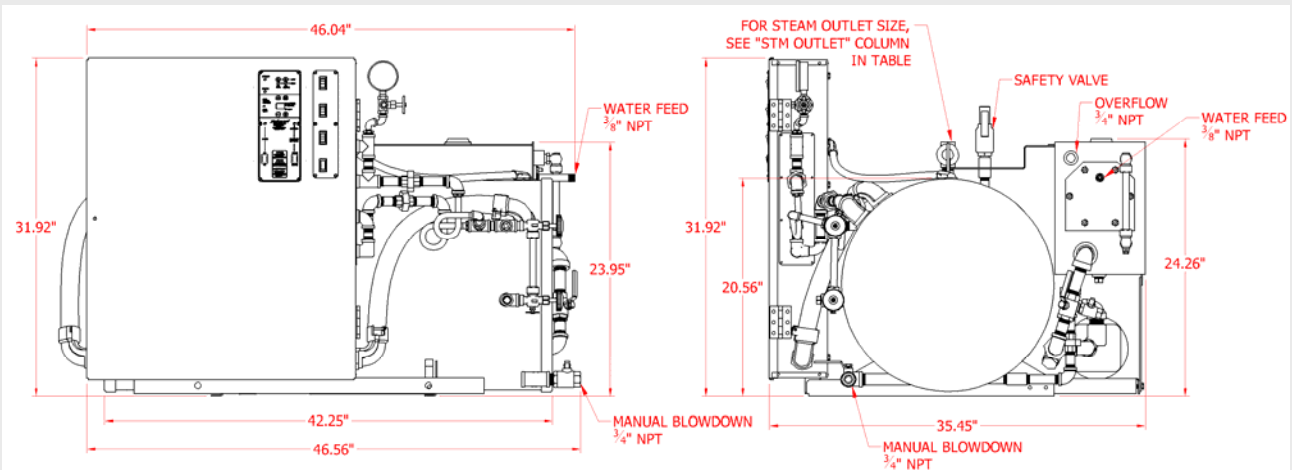
R-36 – R80 Models



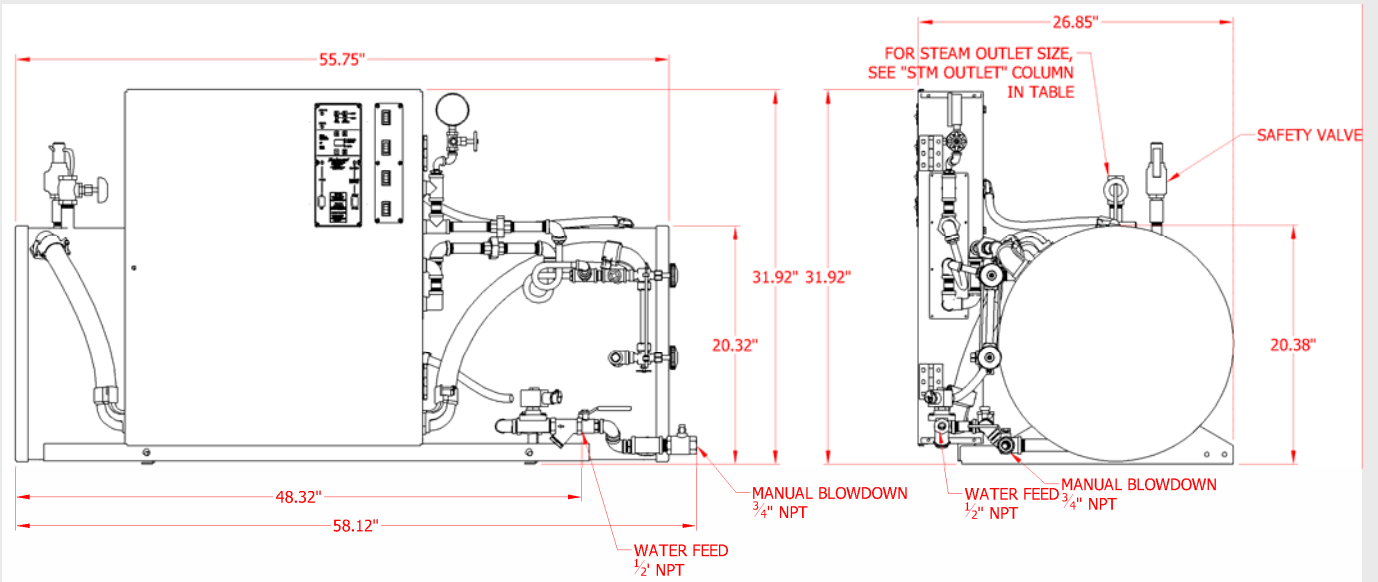
RH36 – RH80



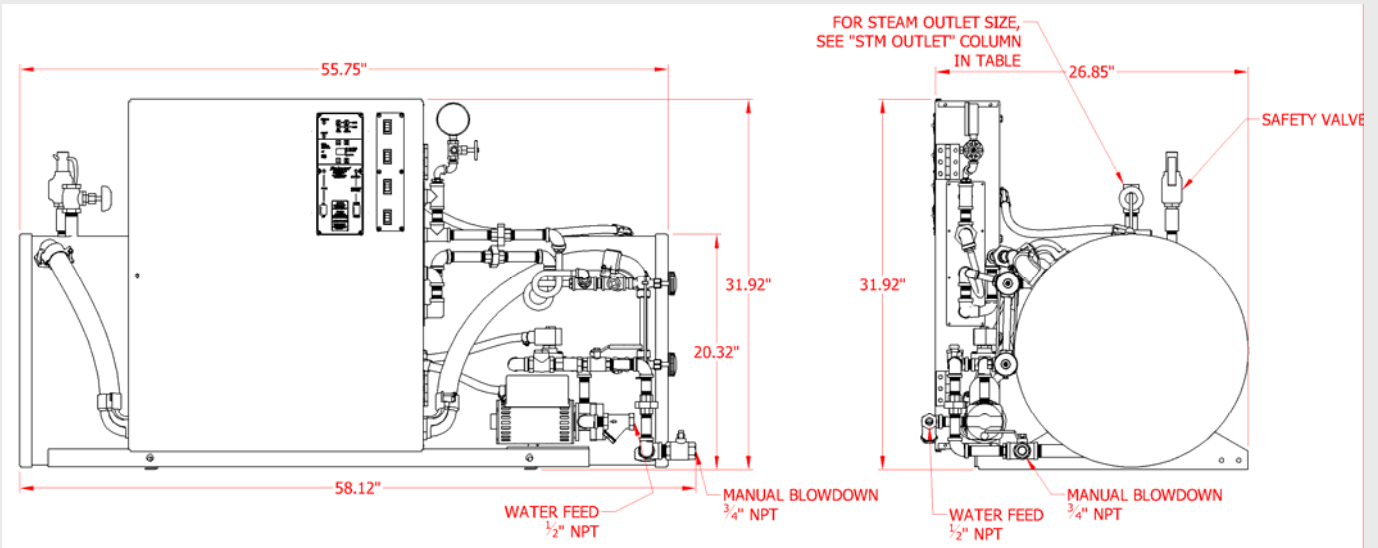
RHC36 – RHC80



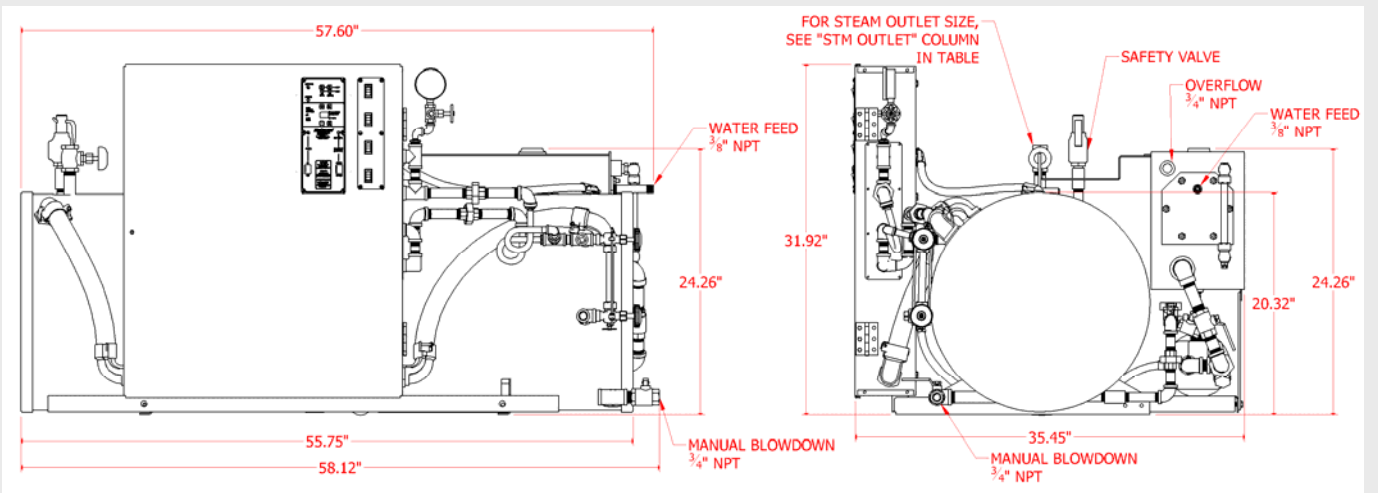
R100 – R120



RH100 – RH120

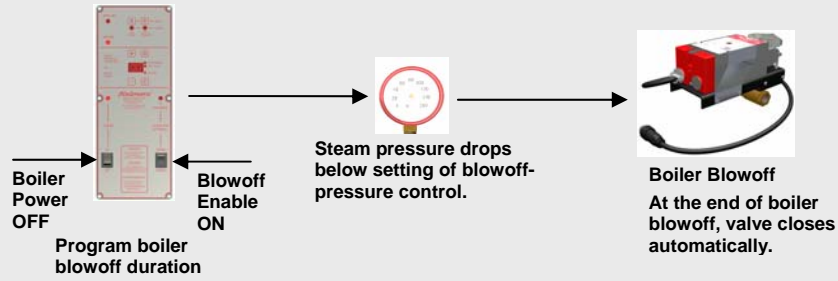


RHC100 – RHC120

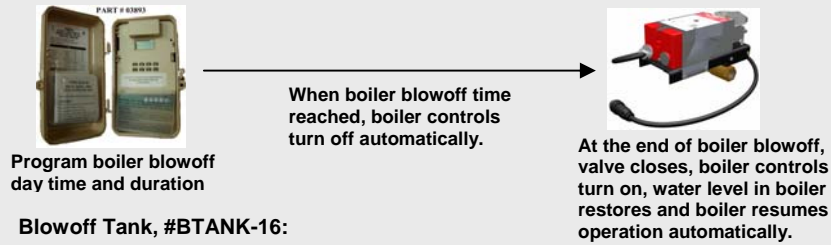


Optional Equipment

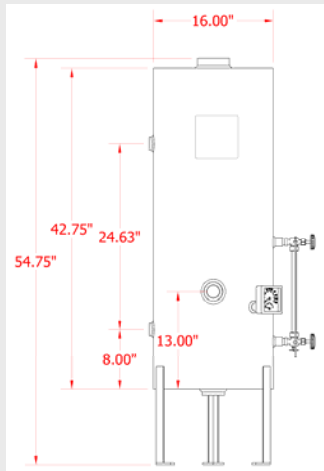
1. Pressure Controlled Boiler Blowoff System (Automatic Flush & Drain), #OPT1016 :



2. Timer Controlled Boiler Blowoff System, #OPT1001:



3. Blowoff Tank, #BTANK-16:



Blowoff tank dimensions

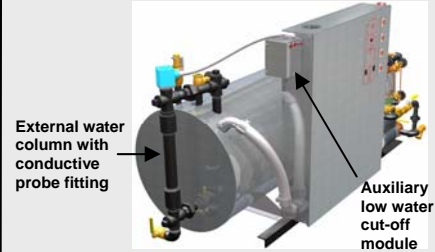


Typical blowoff tank installation

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

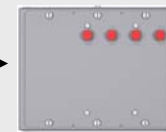


6. Proportional Operating Pressure Control, #20802

Proportional Pressure Control



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



Program timer to turn boiler on/off automatically

8. Boiler Stacking:



Boiler Model	Stacking Frame
R, RH, RHC36-54	20292-4
R, RH, RHC60-72	20292-13
R, RH, RHC100-120	20293-3

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