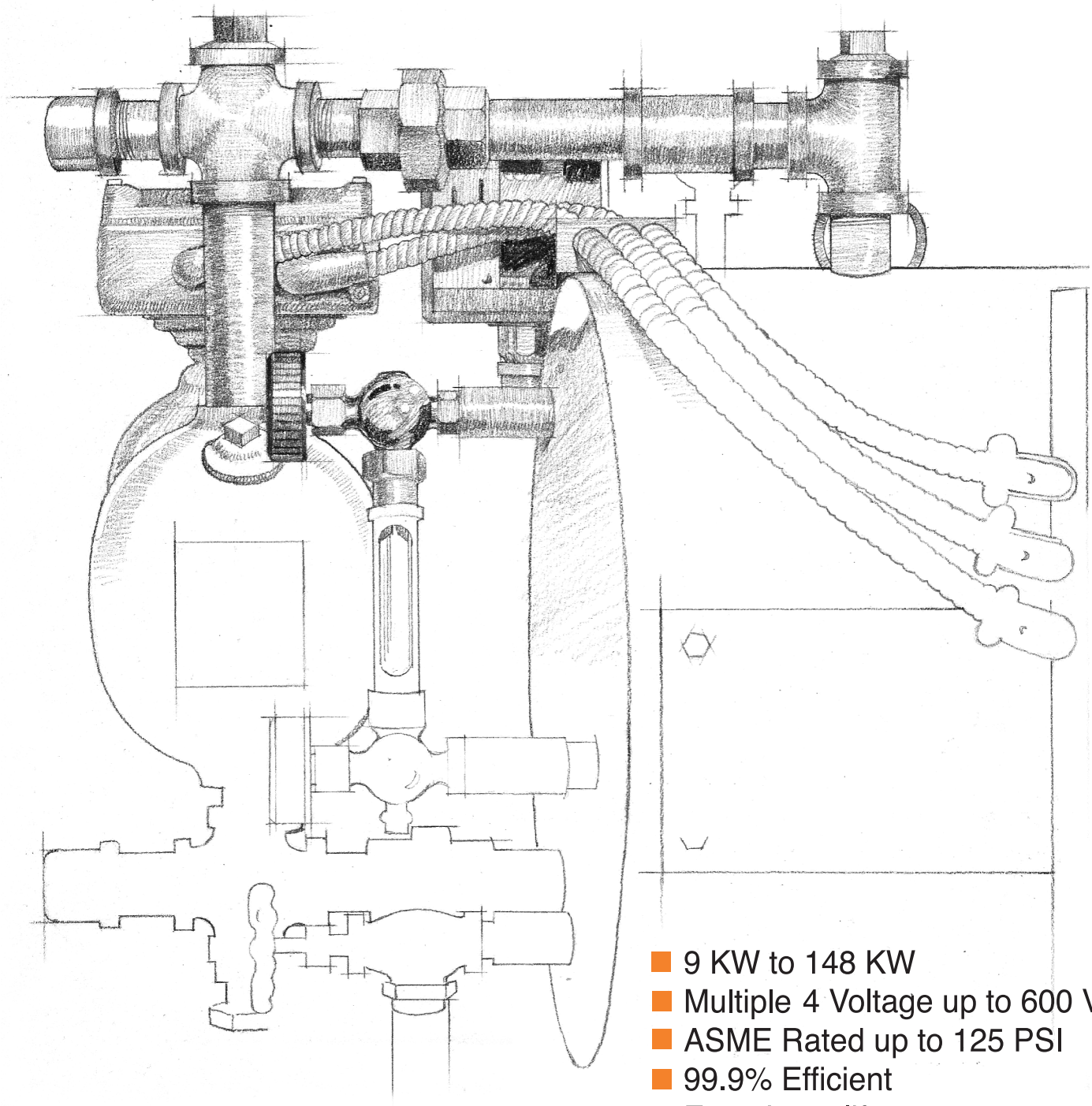


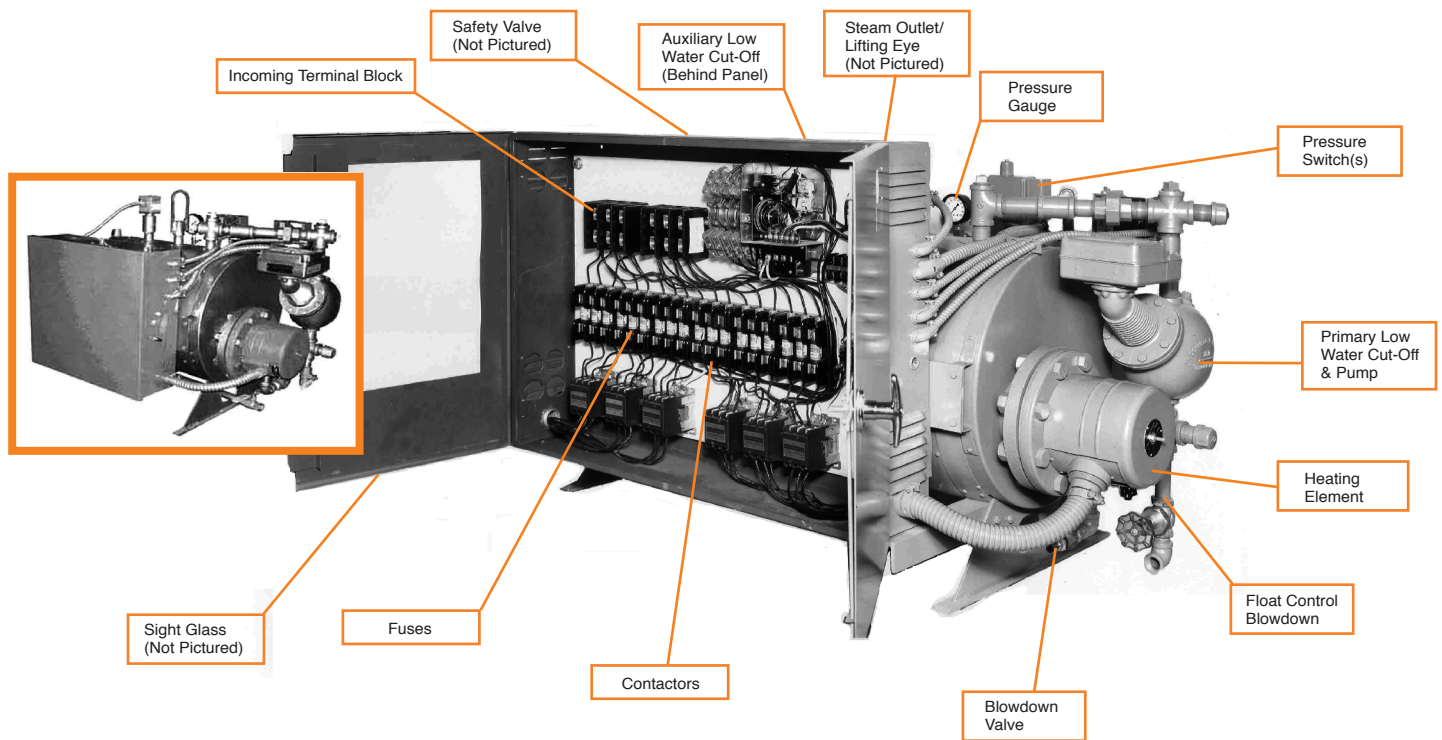
LATTNER

Horizontal Electric Steam Boilers



- 9 KW to 148 KW
- Multiple 4 Voltage up to 600 V
- ASME Rated up to 125 PSI
- 99.9% Efficient
- Extra Long life
- 31 to 510 Lbs/ Steam/Hr. @212°F

LATTNER



Description

Durable ASME Code horizontal electric steam boilers with flange-mounted, incoloy-sheathed heating elements. Each boiler is completely automatic with operating controls, water level control, and low water cut-off. All joints and seams are welded and hydrostatically tested. Constructed of heavy duty steel. Boiler is fully insulated with 2" therma-fibre felt and covered with metal jacket for efficient operation. All boilers assembled in Cedar Rapids, IA USA.

Standard Package Includes

- Heating elements with magnetic contactors
- McDonnell & Miller level control
- Probe type aux. low water cut-off
- Pressure control switch
- Pressure limit switch with manual reset
- Safety valve
- Blowdown valve(s)
- Feed water valve(s)

Applications

- Humidification of high tech environments such as computer rooms
- Humidification of museum spaces
- Sterilization in medical or laboratory environments
- Manufacturing processes such as packaging and shrink labeling, plating, retreading
- Health clubs and steam rooms
- Food processing such as bakeries, breweries, shrimp cooking
- Dry cleaning and tailoring

Optional Features

- Control circuit transformer
- Non-fused interlocking disconnect
- Shunt trip
- Ground fault protection
- Progressive element sequencing
- Low water level alarm
- Building management system interface
- Automatic bottom blowdown
- Automatic surface blowdown
- 24/7 timers
- KWH meter
- Ammeter
- Steam room controls

480 Volt - Three Phase (115 Volt - 1Ph. Control Circuit)

KW	MODEL	BOILER H.P.	PRESSURE ASME CODE (4)	AMPERE DRAW TOTAL	CONTRACTORS		METHOD OF CONTROL		OPENINGS & DIMENSION	APPROX. SHIP WT. LBS.
					Quan.	Amps.	Std.	Avail.		
9	BF	9	100	10.83	1	40	(1)		BB□	425
15	BF	1.5	100	18.04	1	40	(1)		BB	425
18	BF	1.8	100	21.65	1	40	(1)		BB	425
24	BF	2.4	100	28.87	1	40	(1)		CC	500
30	BF	3.0	100	36.08	1	40	(1)		CC	500
36	BF	3.6	100	43.30	1	50	(1)		DD	565
48	BF	4.8	100	57.74	2	40	(1)	(2)	EE	675
60	BF	6.0	100	72.17	2	40	(1)	(2)	EE	675
74	BF	7.4	125	89.01	3	40	(1)	(2)(3)	FF	850
93	BF	9.3	125	111.86	5	40	(2)	(3)	GG	875
112	BF	13	125	134.72	6	40	(2)	(3)	GG	875
130	BF	11.2	125	156.37	6	40	(2)	(3)	GG	875
148	BF	14.8	125	178.02	6	40	(2)	(3)	GG	875

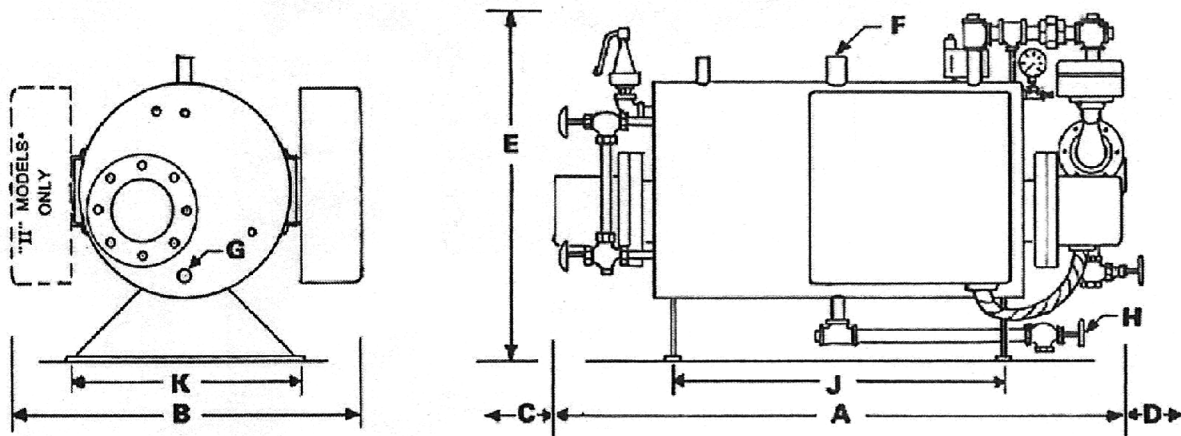
240 Volt - Three Phase (115 Volt - 1Ph. Control Circuit)

KW	MODEL	BOILER H.P.	PRESSURE ASME CODE (4)	AMPERE DRAW TOTAL	CONTRACTORS		METHOD OF CONTROL		OPENINGS & DIMENSION	APPROX. SHIP WT. LBS.
					Quan.	Amps.	Std.	Avail.		
9	F	9	100	21.65	1	40	(1)		BB□	425
15	F	1.5	100	36.08	1	40	(1)		BB	425
18	F	1.8	100	43.30	1	40	(1)		BB	425
24	F	2.4	100	57.74	1	40	(1)	(2)	CC	500
30	F	3.0	100	72.17	1	40	(1)	(2)(3)	CC	500
36	F	3.6	100	86.60	1	50	(1)	(2)	DD	565
48	F	4.8	100	115.47	2	40	(2)	(3)	EE	675
60	F	6.0	100	144.34	2	40	(2)	(3)	EE	675
74	F	7.4	125	178.02	3	40	(2)	(3)	FF	850
93	F	9.3	125	223.72	5	40	(2)	(3)	GG	875
112	F	13	125	269.43	6	40	(2)	(3)	GG	875
130	F	11.2	125	312.73	6	40	(2)	(3)	GG	875
148	F	14.8	125	356.03	6	40	(2)	(3)	GG	875

208 Volt - Three Phase (115 Volt - 1Ph. Control Circuit)

KW	MODEL	BOILER H.P.	PRESSURE ASME CODE (4)	AMPERE DRAW TOTAL	CONTRACTORS		METHOD OF CONTROL		OPENINGS & DIMENSION	APPROX. SHIP WT. LBS.
					Quan.	Amps.	Std.	Avail.		
9	AF	9	100	24.98	1	40	(1)		BB□	425
15	AF	1.5	100	41.64	1	50	(1)		BB	425
18	AF	1.8	100	49.96	1	50	(1)		BB	425
24	AF	2.4	100	66.62	2	40	(1)	(2)	CC	500
30	AF	3.0	100	83.27	3	40	(1)	(2)(3)	CC	500
36	AF	3.6	100	99.93	2	50	(1)	(2)	DD	565
48	AF	4.8	100	133.23	4	40	(2)	(3)	EE	675
60	AF	6.0	100	166.54	6	40	(2)	(3)	EE	675
74	AF	7.4	125	205.40	3	70	(2)	(3)	FF	850
93	AF	9.3	125	258.14	5	60	(2)	(3)	GG	875
112	AF	13	125	310.88	6	60	(2)	(3)	GG	875
130	AF	11.2	125	360.84	6	70	(2)	(3)	GG	875
148	AF	14.8	125	410.81	6	70	(2)	(3)	GG	875

Dimensions



Spec.	Length Overall A	Width Overall B	Add for Element Removal C	D	Steam Boiler Openings				Base Length J	Base Width K	Steam Release Area Sq. Inches	Water Capacity at Normal Level-Gallons
					Height E	Steam Outlet F	Feed Water G	Blow-Off Valve H				
BB	43"	27"	0"	26"	29"	3/4"	3/4"	3/4"	24 1/4"	20 1/2"	284	9.3
CC	38"	27"	0"	18"	29"	1"	3/4"	3/4"	18 5/8"	20 1/2"	264	11.0
DD	43"	29"	0"	26"	29"	1 1/4"	3/4"	3/4"	24 1/4"	20 1/2"	345	14.0
EE	43"	29"	18"	18"	32"	1 1/4"	3/4"	3/4"	24 1/4"	20 1/2"	345	14.0
FF	59"	29"	0"	40"	32"	1 1/4"	3/4"	1"	38 3/8"	20 1/2"	536	23.0
GG	59"	29"	40"	40"	32"	2"	3/4"	1"	38 3/8"	20 1/2"	536	23.0

Specifications subject to change without notice.

Footnotes:

- ① One pressure switch provides on/off operation. Advise desired operation pressure.
- ② Two pressure switches used. Each switch controls approximately one half the load and are set at slightly different settings to allow two step operation. Advise desired operation pressure.
- ③ Sequence control optional. (Add P to model number). Number of steps based on number of contactors. See price sheet for description of sequence control.
- ④ Pressure shown is standard for steam boilers. High pressures is available on special orders. Sizes 60 KW and smaller are built under ASME "Miniature Code" which may exempt them from some local and state regulations. Boilers can be furnished with low pressure controls and trim.



Lattner Boiler Manufacturing Co.

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