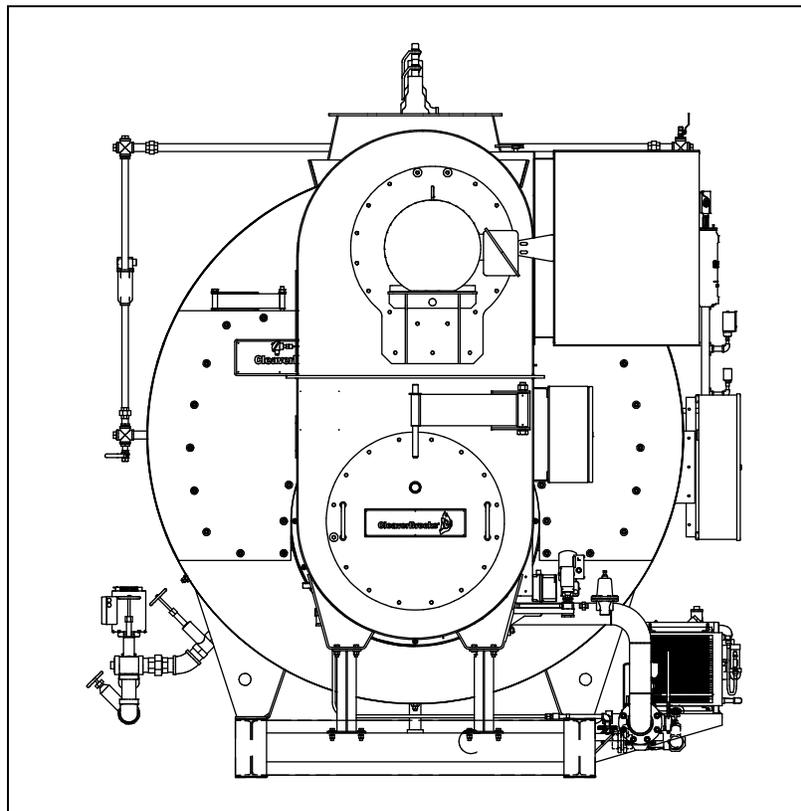


MODEL CBEX PREMIUM BOILERS 900 - 1200 HP



Dimensions and Ratings

Table 1: CBEX Premium Ratings Steam

BOILER H.P.	900	1000	1100	1200
Burner Model (Standard)	XL-1	XL-1	XL-1	XL-1
Burner Model (30 ppm)	LNXL-1	LNXL-1	LNXL-1	LNXL-1
RATINGS - SEA LEVEL TO 700 FT.				
Rated Capacity (lbs-steam/hr from and at 212 OF)	31050	34500	37950	41400
Btu Output (1000 Btu/hr)	30125	33472	36819	40166
APPROXIMATE FUEL CONSUMPTION AT RATED CAPACITY BASED ON NOMINAL 80% EFFICIENCY				
Light Oil gph (140,000 Btu/gal)	269.0	298.9	328.7	358.6
Gas CFH (1000 Btu)	37656	41840	46024	50208
Gas (Therm/hr)	376.6	418.4	460.2	502.1
POWER REQUIREMENTS - SEA LEVEL TO 700 FT. (60 HZ)				
Blower Motor hp (Standard) ^A	60	75	75	100
Blower Motor hp (30 ppm) ^A	75	100	100	125
Circulating Oil Pump Motor hp ^B	1	1	1	1 1/2
Oil Metering Pump Motor hp ^B	n/a	n/a	n/a	n/a
Air Compressor Motor hp ^B	15	15	15	15
BOILER DATA				
Heating Surface sq-ft. (Fireside)	2810	2810	2955	2955

NOTES:

A. Blower motor size for boiler operating pressures 125 psig and less, contact your local Cleaver-Brooks authorized representative for higher pressures and altitude.

B. Required for #2 Oil Firing.

C. All fractional hp motors will be single phase voltage except oil metering pump motors which are three phase. Integral hp motors will be three phase voltage.

** Air compressor not required for 100-200hp as these burners are pressure atomized.

Table 2: CBEX Premium Ratings HW

BOILER H.P.	900	1000	1100	1200
Burner Model (Standard)	XL-1	XL-1	XL-1	XL-1
Burner Model (30 ppm)	LNXL-1	LNXL-1	LNXL-1	LNXL-1
RATINGS - SEA LEVEL TO 700 FT.				
Btu Output (1000 Btu/hr)	30125	33472	36819	40166
APPROXIMATE FUEL CONSUMPTION AT RATED CAPACITY BASED ON NOMINAL 83% EFFICIENCY				
Light Oil gph (140,000 Btu/gal)	259.2	288.1	316.9	345.7
Gas CFH (1000 Btu)	36295	40328	44360	48393
Gas (Therm/hr)	362.9	403.3	443.6	483.9
POWER REQUIREMENTS - SEA LEVEL TO 700 FT. (60 HZ)				
Blower Motor hp (Standard)	60	75	75	100
Blower Motor hp (30 ppm)	75	100	100	125
Circulating Oil Pump Motor hp ^A	1	1	1	1 1/2
Oil Metering Pump Motor hp ^A	n/a	n/a	n/a	n/a
Air Compressor Motor hp ^A	15	15	15	15
BOILER DATA				
Heating Surface sq-ft. (Fireside)	2810	2810	2955	2955

NOTES:

A. Required for #2 Oil Firing.

B. All fractional hp motors will be single phase voltage except oil metering pump motors which are three phase. Integral hp motors will be three phase voltage.

** Air compressor not required for 100-200hp as these burners are pressure atomized.

Figure 1. CBEX Premium Steam

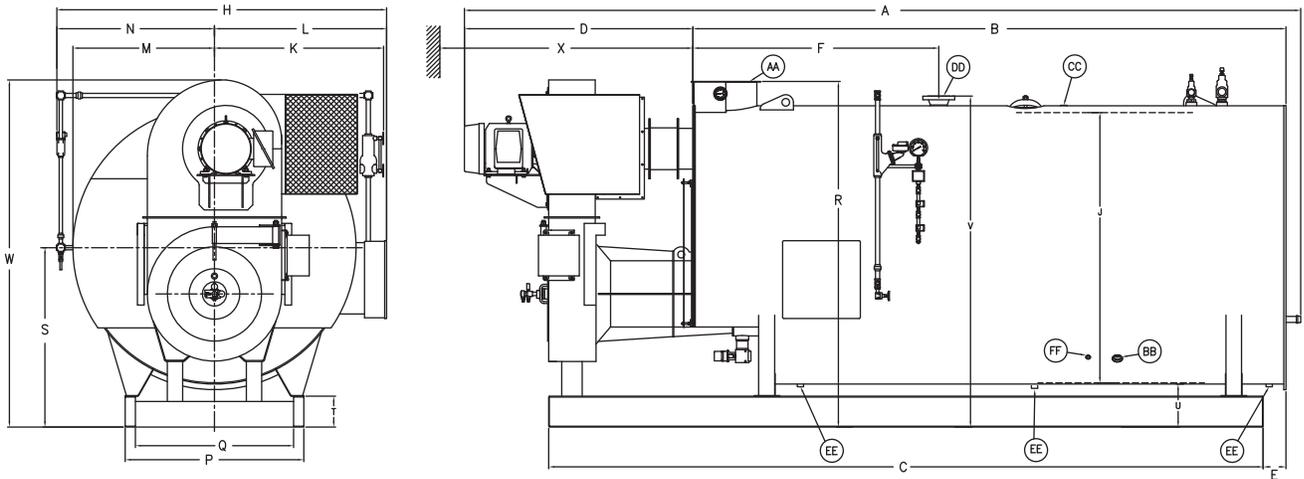


Table 3: CBEX Premium Dimensions Steam

BOILER H.P.	DIM	900	1000	1100	1200
LENGTHS					
Overall Length (Standard)	A	361	361	372	372
Overall Length (30 PPM system)	A	361	361	372	372
Shell	B	255	255	266	266
Base Frame	C	304	304	315	315
Burner Extension (Standard)	D	100	100	100	100
Burner Extension (30 PPM system)	D	100	100	100	100
Rear Ring Flange to Base	E	10.5	10.5	10.5	10.5
Shell Flange to Steam Nozzle	F	134	134	140	140
WIDTHS					
Overall Width	H	133	133	133	133
I.D. Boiler	J	106	106	106	106
Center to Water Column	K	68	68	68	68
Center to Panel	L	70	70	70	70
Center to Lagging	M	56	56	56	56
Center to Auxiliary LWCO	N	63	63	63	63
Base Outside	P	74.75	74.75	74.75	74.75
Base Inside	Q	61.75	61.75	61.75	61.75
HEIGHTS					
Base to Vent Outlet	R	138	138	138	138
Base to Boiler Centerline	S	71	71	71	71
Height of Base Frame	T	12	12	12	12
Base to Bottom of Boiler	U	17.5	17.5	17.5	17.5
Base to Steam Outlet	V	131	131	131	131
Overall Height	W	143	143	143	143
BOILER CONNECTIONS					
Feedwater Inlet (Both Sides)	BB	3	3	3	3

Table 3: CBEX Premium Dimensions Steam (Continued)

BOILER H.P.	DIM	900	1000	1100	1200
Surface Blowoff	CC	1	1	1	1
Steam Nozzle (300# ANSI Flange)	DD	10	10	10	10
Blowdown-Front, Middle, and Rear	EE	2	2	2	2
Chemical Feed	FF	0.75	0.75	0.75	0.75
VENT STACK					
Vent Stack Diameter (Flanged)	AA	32	32	32	32
MINIMUM CLEARANCES					
Tube Removal - Front Only	X	181	181	192	192
MINIMUM BOILER ROOM LENGTH ALLOWING FOR TUBE REMOVAL:					
Thru Window or Door		403	403	414	414
Front of Boiler		472	472	494	494
WEIGHTS IN LBS					
Normal Water Weight		34,430	34,430	32,670	32,670
Approx. Shipping Weight - (150psig)		47,000	47,000	49,000	49,000

NOTES:

Accompanying dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction by certified dimension diagram/drawing.

All connections are threaded unless otherwise indicated.

Figure 2. CBEX Premium Hot Water

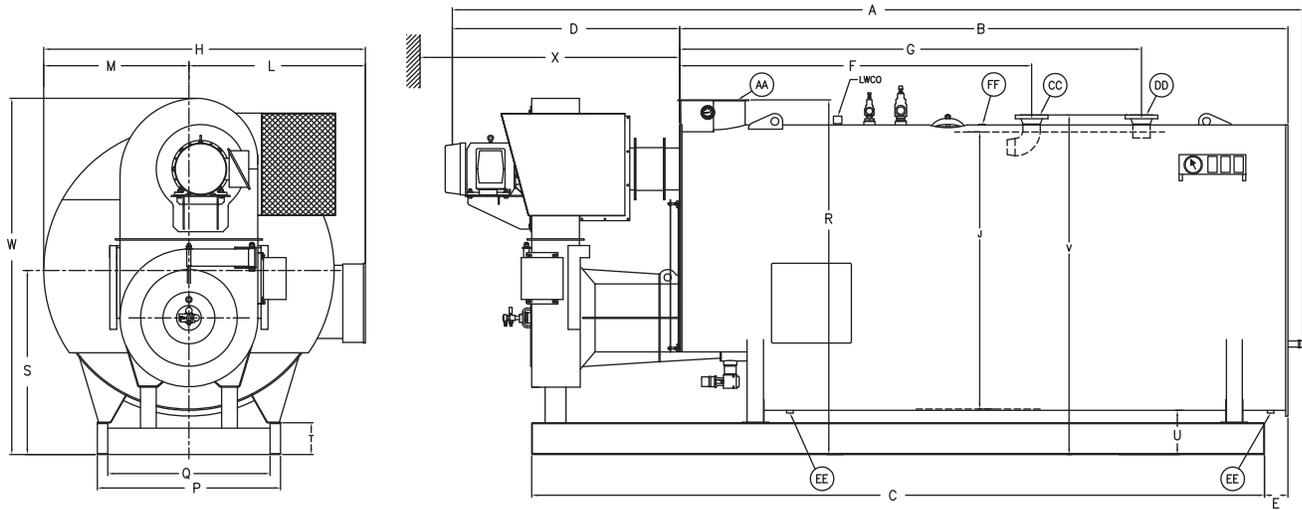


Table 4: CBEX Premium Dimensions HW

BOILER H.P.	DIM	900	1000	1100	1200
LENGTHS					
Overall Length (Standard)	A	361	361	372	372
Overall Length (30 PPM system)	A	361	361	372	372
Shell	B	255	255	266	266
Base Frame	C	304	304	315	315
Burner Extension (Standard)	D	100	100	100	100
Burner Extension (30 PPM system)	D	100	100	100	100
Rear Ring Flange to Base	E	10.5	10.5	10.5	10.5
Shell Flange to Water Return	F	199.5	199.5	210.5	210.5
Shell Flange to Water Outlet	G	235.5	235.5	246.5	246.5
WIDTHS					
Overall Width	H	126	126	126	126
I.D. Boiler	J	106	106	106	106
Center to Panel	L	70	70	70	70
Center to Lagging	M	56	56	56	56
Base Outside	P	74.75	74.75	74.75	74.75
Base Inside	Q	61.75	61.75	61.75	61.75
HEIGHTS					
Base to Vent Outlet	R	138	138	138	138
Base to Boiler Centerline	S	71	71	71	71
Height of Base Frame	T	12	12	12	12
Base to Bottom of Boiler	U	17.5	17.5	17.5	17.5
Base to Water Return & Outlet	V	131	131	131	131
Overall Height	W	143	143	143	143
BOILER CONNECTIONS					
Water Return (150# ANSI Flange)	CC	14	14	14	16
Water Outlet (150# ANSI Flange)	DD	14	14	14	16

Table 4: CBEX Premium Dimensions HW (Continued)

BOILER H.P.	DIM	900	1000	1100	1200
Drain-Front & Rear	EE	2.5	2.5	2.5	2.5
Air Vent	FF	2.5	2.5	2.5	2.5
VENT STACK					
Vent Stack Diameter (Flanged)	AA	32	32	32	32
MINIMUM CLEARANCES					
Tube Removal - Front Only	X	181	181	192	192
MINIMUM BOILER ROOM LENGTH ALLOWING FOR TUBE REMOVAL:					
Thru Window or Door		403	403	414	414
Front of Boiler		472	472	494	494
WEIGHTS IN LBS					
Normal Water Weight		47,600	47,600	44,500	44,500
Approx. Shipping Weight - (30 psig)		38,400	38,400	41,700	41,700
Approx. Shipping Weight - (125 psig)		49,200	49,350	53,700	53,850

NOTES:

Accompanying dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction by certified dimension diagram/drawing.

All connections are threaded unless otherwise indicated.



e-mail: info@cleaverbrooks.com
Web address: <http://www.cleaverbrooks.com>