



# Commercial Electric Boiler

12—600KW

## Submittal Sheet

Date: \_\_\_\_\_ Representative: \_\_\_\_\_

Job Name: \_\_\_\_\_ Notes: \_\_\_\_\_

Approved By: \_\_\_\_\_

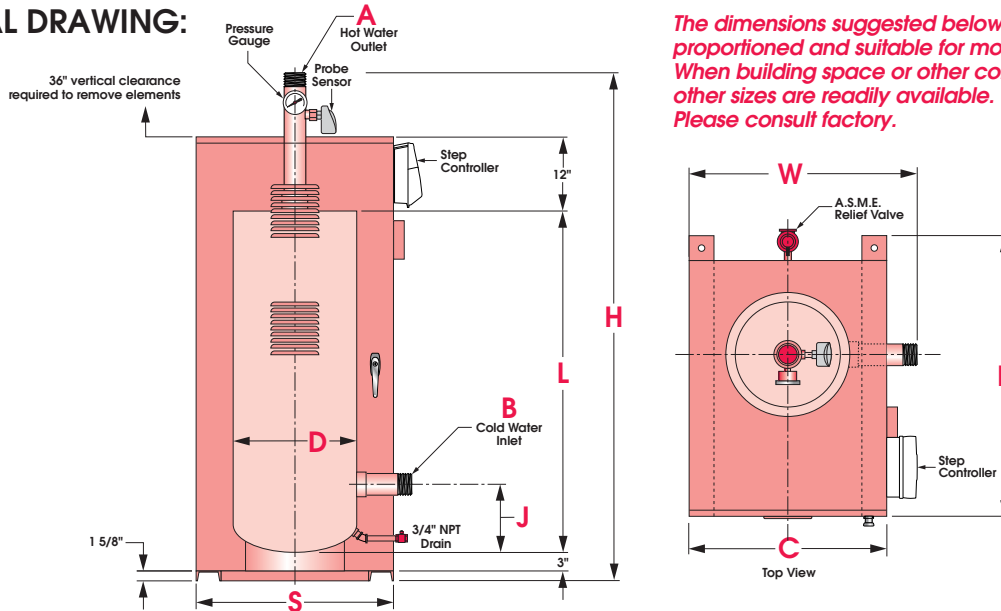
### STANDARD PACKAGE FEATURES:

- A.S.M.E. Code Constructed National Board Registered H Stamp
- 3" Fiberglass Insulation
- 20 Gauge Steel Jacket with hammertone enamel-painted exterior
- ASME Pressure Relief Valve
- Pressure Gauge
- Incoloy sheathed immersion elements (75 wpsi)
- High Temperature cut-off(s) with auto & manual reset
- Low Water cut-off(s) with auto & manual reset
- Internal branch circuit fusing
- Heavy duty magnetic contactors
- Main distribution block(s)
- Line voltage to 120 fused control transformer
- On/Off switch
- Safety Door Interlock
- Grounding Lug
- Adjustable proportioning solid state step controller
- Digital Temperature Read-Out
- Outdoor reset or set point
- Day and night schedule
- UL Listed
- CSD-1 compliant
- SSCR = 100,000 kA

### OPTIONAL FEATURES:

- |   |  |                                 |
|---|--|---------------------------------|
| <input type="checkbox"/> Fused Disconnect     | <input type="checkbox"/> Flow Switch           | <input type="checkbox"/> BACNet |
| <input type="checkbox"/> Non-Fused Disconnect | <input type="checkbox"/> High Pressure Cut-Off |                                 |
| <input type="checkbox"/> Power Meter          | <input type="checkbox"/> Circuit Breaker       |                                 |
| <input type="checkbox"/> Alarm Bell           | <input type="checkbox"/> Emergency E-Stop      |                                 |

### DIMENSIONAL DRAWING:



*The dimensions suggested below are well proportioned and suitable for most installations. When building space or other conditions demand, other sizes are readily available. Please consult factory.*

MODEL NUMBER	H	W	C	D	L	F	J	S	A&B
VB30ETB	72"	23"	20"	12 3/4"	44"	33 1/2"	11"	20"	3" NPT
VB40ETB	72"	27"	24"	16"	44"	36 3/4"	11"	24"	3" NPT
VB60ETB	72"	31"	28"	20"	44"	40 3/4"	11"	28"	3" NPT
VB80ETB	72"	35"	32"	24"	44"	44 3/4"	11"	32"	3" NPT

	Model No.	KW	Btu/Hr	Contactors	KW Per Circuit	Steps	KW Per Step	KW Per Element	Total # Elements	600V 3 Phase Amps	480V 3 Phase Amps	415V 3 Phase Amps	380V 3 Phase Amps
<input type="checkbox"/>	VB30ETB15	15	51,225	1	15	1	15	15	1	14	18	21	23
<input type="checkbox"/>	VB30ETB20	20	68,304	1	20	1	20	20	1	19	24	28	30
<input type="checkbox"/>	VB30ETB30	30	102,450	2	15	2	15	15	2	29	36	42	46
<input type="checkbox"/>	VB30ETB40	40	136,607	2	20	2	20	20	3	39	48	56	61
<input type="checkbox"/>	VB30ETB45	45	153,675	2	1@15, 1@30	2	1@15, 1@30	15	3	43	54	63	68
<input type="checkbox"/>	VB30ETB60	60	204,900	3	20	3	20	20	3	58	72	84	91
<input type="checkbox"/>	VB30ETB75	75	256,125	3	1@15, 2@30	3	1@15, 2@30	15	5	72	90	104	114
<input type="checkbox"/>	VB30ETB80	80	273,214	4	20	4	20	20	4	77	96	111	123
<input type="checkbox"/>	VB30ETB100	100	341,518	5	20	5	40	20	5	96	120	139	152
<input type="checkbox"/>	VB30ETB120	120	409,800	3	40	3	40	20	6	116	145	167	183
<input type="checkbox"/>	VB40ETB140	140	478,125	4	1@20, 3@40	4	1@20, 3@40	20	7	135	169	195	213
<input type="checkbox"/>	VB40ETB160	160	546,429	4	40	4	40	20	8	154	193	223	243
<input type="checkbox"/>	VB40ETB180	180	614,700	5	1@20, 4@40	5	1@20, 4@40	20	9	173	217	251	274
<input type="checkbox"/>	VB60ETB200	200	683,036	5	40	5	40	20	10	193	241	279	304
<input type="checkbox"/>	VB60ETB240	240	819,600	6	40	6	40	20	12	231	289	334	365
<input type="checkbox"/>	VB60ETB280	280	956,250	7	40	7	40	20	14	270	337	390	426
<input type="checkbox"/>	VB60ETB300	300	1,024,500	8	1@20, 7@40	8	1@20, 7@40	20	15	289	361	418	456
<input type="checkbox"/>	VB60ETB320	320	1,092,857	8	40	8	40	20	16	308	385	446	487
<input type="checkbox"/>	VB60ETB360	360	1,229,400	9	40	8	7@40, 1@80	20	18	347	434	501	548
<input type="checkbox"/>	VB60ETB400	400	1,366,072	10	40	8	6@40, 2@80	20	20	385	482	557	609
<input type="checkbox"/>	VB60ETB440	440	1,502,679	11	40	8	5@40, 3@80	20	22	424	530	613	669
<input type="checkbox"/>	VB80ETB480	480	1,639,200	12	40	8	4@40, 4@80	20	24	462	578	669	730
<input type="checkbox"/>	VB80ETB520	520	1,775,893	13	40	7	1@40, 6@80	20	26	501	626	724	791
<input type="checkbox"/>	VB80ETB560	560	1,912,500	14	40	7	80	20	27	539	674	780	852
<input type="checkbox"/>	VB80ETB600	600	2,049,000	15	40	8	1@40, 7@80	20	30	578	723	836	913

	Model No.	KW	Btu/Hr	Steps	KW Per Step	KW Per Element	Total # Elements	240V 3 Phase Amps	208V 3 Phase Amps
<input type="checkbox"/>	VB30ETB	12	40,980	1	12	12	1	29	33
<input type="checkbox"/>	VB30ETB	15	51,225	1	15	15	1	36	42
<input type="checkbox"/>	VB30ETB	24	81,960	2	12	12	2	58	67
<input type="checkbox"/>	VB30ETB	30	102,450	2	15	15	2	72	83
<input type="checkbox"/>	VB30ETB	45	153,675	3	15	15	3	108	125
<input type="checkbox"/>	VB30ETB	60	204,900	4	15	15	4	145	167
<input type="checkbox"/>	VB30ETB	75	256,125	5	15	15	5	181	208
<input type="checkbox"/>	VB30ETB	90	307,366	6	15	15	6	217	250
<input type="checkbox"/>	VB30ETB	105	358,594	7	15	15	7	253	292
<input type="checkbox"/>	VB30ETB	120	409,800	8	15	15	8	289	333
<input type="checkbox"/>	VB40ETB	150	512,250	5	30	15	10	361	417
<input type="checkbox"/>	VB40ETB	180	614,700	6	30	15	12	434	500
<input type="checkbox"/>	VB60ETB	210	717,150	7	30	15	14	506	583
<input type="checkbox"/>	VB60ETB	240	819,600	8	30	15	16	578	666
<input type="checkbox"/>	VB60ETB	270	922,098	9	30	15	18	650	750
<input type="checkbox"/>	VB60ETB	300	1,024,500	10	30	15	20	723	834

**Symbol Designating Code:**

	Voltage	Phase	Code
<input type="checkbox"/>	208	1	BY1
<input type="checkbox"/>	208	3	BY3
<input type="checkbox"/>	240	1	B1
<input type="checkbox"/>	240	3	B3
<input type="checkbox"/>	480	3	C3
<input type="checkbox"/>	600	3	D3

**Specifying a Cemline Boiler Model Number:**

1. Cemline Boiler Number and KW.
2. Symbol designating voltage — select from code on left:
3. Symbol for U.L. listing.

Example: VB30ETB75 C3 RL  
 Interpretation: 1 2 3

Example shown above is for a vertical boiler, 75 KW, 480 volt, 3 phase.

**Cemline Boiler Model:** \_\_\_\_\_

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