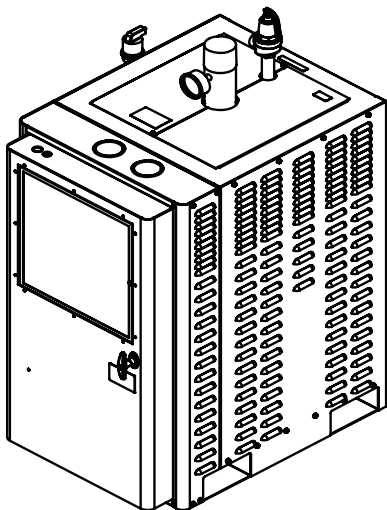




Brute® Commercial Electric Boiler

BEB Electric Boiler

Indoor, Sizes 60-300



Date:

Project #:

Engineer:

Prepared By:

Bid Date:

Submittal Data

Project Name:

Location:

Contractor:

Standard Features

- ASME pressure vessel
- National Board & CRN * registration
- Meets ASME CSD-1
- ASME 30 psi pressure rating and PRV (125 psi optional)
- SCCR rated at 100 kA
- Temp & pressure gauge
- 3" inspection opening
- 3" NPT water connections
- Integrated ½" air vent
- Supply and return water temperature sensing
- Digital temperature control with display
- Multi-boiler lead/lag control
- 0-10VDC external boiler control
- Adjustable outdoor reset
- Manual reset high limit, 220°F
- Auto reset high limit, 210°F
- Low water cutoff with manual reset
- Stage active indicator lights
- Fuse protection on each stage
- Emergency shut-down connection point
- Safety door interlock
- Lockable door latch

*Contact factory for 125 psi requirements for installation in Canada

Boiler Data

Number of Units:	208V 3Φ Model	240V 3Φ Model	480V 3Φ Model	600V 3Φ Model
☐	☐ 60 kW	☐ 60 kW	☐ 60 kW	☐ 60 kW
	☐ 75 kW	☐ 75 kW	☐ 72 kW	☐ 72 kW
	☐ 90 kW	☐ 90 kW	☐ 84 kW	☐ 84 kW
	☐ 105 kW	☐ 105 kW	☐ 96 kW	☐ 96 kW
	☐ 120 kW	☐ 120 kW	☐ 108 kW	☐ 108 kW
	☐ 135 kW	☐ 135 kW	☐ 120 kW	☐ 120 kW
	☐ 150 kW	☐ 150 kW	☐ 132 kW	☐ 132 kW
	☐ 165 kW	☐ 165 kW	☐ 144 kW	☐ 144 kW
	☐ 180 kW	☐ 180 kW	☐ 160 kW	☐ 160 kW
			☐ 180 kW	☐ 180 kW
			☐ 200 kW	☐ 200 kW
			☐ 220 kW	☐ 220 kW
			☐ 240 kW	☐ 240 kW
			☐ 260 kW	☐ 260 kW
			☐ 280 kW	☐ 280 kW
			☐ 300 kW	☐ 300 kW

Factory Mounted Options

- ☐ 125 psi vessel & PRV
- ☐ BACnet interface
- ☐ LonWorks interface
- ☐ T775R system control

- ☐ Fault monitor, mounted and wired*

*Important Notes:

1. Fault monitor CANNOT be used with Wye power systems.
2. If power system is Delta, ground fault protection is required. The fault monitor option shown will satisfy this requirement. Job site may already have ground fault protection in place. Confirm before ordering this option.



Boiler Data

Model Number	Voltage 3Φ	Input kW	Output Btu/hour	Required Water Flow Rate For 20°F / 11°C Temp Rise		Headloss With 20°F / 11°C Temp Rise		Minimum Water Flow Rate		Boiler Weight	
				gpm	l/m	ft	m	gpm	l/m	lbs	kg
EB-060-208 (X,H)	208	60	204,728	21	80	0.1	0.03	5	19	680	309
EB-075-208 (X,H)	208	75	255,910	26	98	0.1	0.03	5	19	685	311
EB-090-208 (X,H)	208	90	307,092	31	117	0.1	0.03	5	19	690	313
EB-105-208 (X,H)	208	105	358,274	36	136	0.1	0.03	5	19	695	316
EB-120-208 (X,H)	208	120	409,457	41	155	0.1	0.03	5	19	700	318
EB-135-208 (X,H)	208	135	460,639	47	178	0.1	0.03	5	19	705	320
EB-150-208 (X,H)	208	150	511,821	52	197	0.1	0.03	5	19	710	322
EB-165-208 (X,H)	208	165	563,003	57	216	0.1	0.03	5	19	715	325
EB-180-208 (X,H)	208	180	614,185	62	235	0.1	0.03	5	19	720	327
EB-060-240 (X,H)	240	60	204,728	21	80	0.1	0.03	5	19	680	309
EB-075-240 (X,H)	240	75	255,910	26	98	0.1	0.03	5	19	685	311
EB-090-240 (X,H)	240	90	307,092	31	117	0.1	0.03	5	19	690	313
EB-105-240 (X,H)	240	105	358,274	36	136	0.1	0.03	5	19	695	316
EB-120-240 (X,H)	240	120	409,457	41	155	0.1	0.03	5	19	700	318
EB-135-240 (X,H)	240	135	460,639	47	178	0.1	0.03	5	19	705	320
EB-150-240 (X,H)	240	150	511,821	52	197	0.1	0.03	5	19	710	322
EB-165-240 (X,H)	240	165	563,003	57	216	0.1	0.03	5	19	715	325
EB-180-240 (X,H)	240	180	614,185	62	235	0.1	0.03	5	19	720	327
EB-060-480 (X,H)	480	60	204,728	21	80	0.1	0.03	4	15	685	311
EB-072-480 (X,H)	480	72	245,674	25	95	0.1	0.03	4	15	690	313
EB-084-480 (X,H)	480	84	286,619	29	110	0.1	0.03	4	15	695	316
EB-096-480 (X,H)	480	96	327,565	33	125	0.1	0.03	4	15	700	318
EB-108-480 (X,H)	480	108	368,511	37	140	0.1	0.03	4	15	705	320
EB-120-480 (X,H)	480	120	409,457	41	155	0.1	0.03	4	15	710	322
EB-132-480 (X,H)	480	132	450,402	45	170	0.1	0.03	4	15	715	325
EB-144-480 (X,H)	480	144	491,348	50	189	0.1	0.03	4	15	720	327
EB-160-480 (X,H)	480	160	545,942	55	208	0.1	0.03	7	26	700	318
EB-180-480 (X,H)	480	180	614,185	62	235	0.1	0.03	7	26	705	320
EB-200-480 (X,H)	480	200	682,428	69	261	0.1	0.03	7	26	710	322
EB-220-480 (X,H)	480	220	750,671	76	288	0.1	0.03	7	26	715	325
EB-240-480 (X,H)	480	240	818,914	82	310	0.1	0.03	7	26	720	327
EB-260-480 (X,H)	480	260	887,156	89	337	0.1	0.03	7	26	725	329
EB-280-480 X	480	280	955,400	96	363	0.1	0.03	7	26	730	331
EB-280-480 H	480	278	948,575	95	360	0.1	0.03	7	26	725	329
EB-300-480 X	480	300	1,023,642	103	390	0.1	0.03	7	26	735	334
EB-300-480 H	480	299	1,020,230	102	386	0.1	0.03	8	29	725	329
EB-060-600 (X,H)	600	60	204,728	21	80	0.1	0.03	4	15	685	311
EB-072-600 (X,H)	600	72	245,674	25	95	0.1	0.03	4	15	690	313
EB-084-600 (X,H)	600	84	286,619	29	110	0.1	0.03	4	15	695	316
EB-096-600 (X,H)	600	96	327,565	33	125	0.1	0.03	4	15	700	318
EB-108-600 (X,H)	600	108	368,511	37	140	0.1	0.03	4	15	705	320
EB-120-600 (X,H)	600	120	409,457	41	155	0.1	0.03	4	15	710	322
EB-132-600 (X,H)	600	132	450,402	45	170	0.1	0.03	4	15	715	325
EB-144-600 (X,H)	600	144	491,348	50	189	0.1	0.03	4	15	720	327
EB-160-600 (X,H)	600	160	545,942	55	208	0.1	0.03	7	26	700	318
EB-180-600 (X,H)	600	180	614,185	62	235	0.1	0.03	7	26	705	320
EB-200-600 (X,H)	600	200	682,428	69	261	0.1	0.03	7	26	710	322
EB-220-600 (X,H)	600	220	750,671	76	288	0.1	0.03	7	26	715	325
EB-240-600 (X,H)	600	240	818,914	82	310	0.1	0.03	7	26	720	327
EB-260-600 (X,H)	600	260	887,156	89	337	0.1	0.03	7	26	725	329
EB-280-600 X	600	280	955,400	96	363	0.1	0.03	7	26	730	331
EB-280-600 H	600	278	948,575	95	360	0.1	0.03	7	26	725	329
EB-300-600 X	600	300	1,023,642	103	390	0.1	0.03	7	26	735	334
EB-300-600 H	600	299	1,020,230	102	386	0.1	0.03	8	29	725	329

Note: "H" denotes optional 125psi model

Electrical Data

Model Number	Voltage 3Φ	kW	Separate Required Electric Feeds							Element Detail	
			3Φ Element Feed #1			3Φ Element Feed #2			120V Single Φ	Element Quantity	Steps
			Amps	MCA	MOP	Amps	MCA	MOP	Control Circuit		
EB-060-208 (X,H)	208	60	166.5	208.2	225	-	-	-	15 Amps	4	4 @ 15kW
EB-075-208 (X,H)	208	75	208.2	260.2	300	-	-	-	15 Amps	5	5 @ 15kW
EB-090-208 (X,H)	208	90	249.8	312.3	350	-	-	-	15 Amps	6	6 @ 15kW
EB-105-208 (X,H)	208	105	291.5	364.3	400	-	-	-	15 Amps	7	7 @ 15kW
EB-120-208 (X,H)	208	120	333.1	416.4	450	-	-	-	15 Amps	8	8 @ 15kW
EB-135-208 (X,H)	208	135	208.2	260.2	300	166.5	208.2	225	15 Amps	9	9 @ 15kW
EB-150-208 (X,H)	208	150	208.2	260.2	300	208.2	260.2	300	15 Amps	10	10 @ 15kW
EB-165-208 (X,H)	208	165	249.8	312.3	350	208.2	260.2	300	15 Amps	11	11 @ 15kW
EB-180-208 (X,H)	208	180	249.8	312.3	350	249.8	312.3	350	15 Amps	12	12 @ 15kW
EB-060-240 (X,H)	240	60	144.3	180.4	200	-	-	-	15 Amps	4	4 @ 15kW
EB-075-240 (X,H)	240	75	180.4	225.5	250	-	-	-	15 Amps	5	5 @ 15kW
EB-090-240 (X,H)	240	90	216.5	270.6	300	-	-	-	15 Amps	6	6 @ 15kW
EB-105-240 (X,H)	240	105	252.6	315.7	350	-	-	-	15 Amps	7	7 @ 15kW
EB-120-240 (X,H)	240	120	288.7	360.8	400	-	-	-	15 Amps	8	8 @ 15kW
EB-135-240 (X,H)	240	135	180.4	225.5	250	144.3	180.4	200	15 Amps	9	9 @ 15kW
EB-150-240 (X,H)	240	150	180.4	225.5	250	180.4	225.5	250	15 Amps	10	10 @ 15kW
EB-165-240 (X,H)	240	165	216.5	270.6	300	180.4	225.5	250	15 Amps	11	11 @ 15kW
EB-180-240 (X,H)	240	180	216.5	270.6	300	216.5	270.6	300	15 Amps	12	12 @ 15kW
EB-060-480 (X,H)	480	60	72.2	90.2	100	-	-	-	15 Amps	5	5 @ 12kW
EB-072-480 (X,H)	480	72	86.6	108.3	110	-	-	-	15 Amps	6	6 @ 12kW
EB-084-480 (X,H)	480	84	101.0	126.3	150	-	-	-	15 Amps	7	7 @ 12kW
EB-096-480 (X,H)	480	96	115.5	144.3	150	-	-	-	15 Amps	8	8 @ 12kW
EB-108-480 (X,H)	480	108	72.2	90.2	100	57.7	72.2	80	15 Amps	9	9 @ 12kW
EB-120-480 (X,H)	480	120	72.2	90.2	100	72.2	90.2	100	15 Amps	10	10 @ 12kW
EB-132-480 (X,H)	480	132	86.6	108.3	110	72.2	90.2	100	15 Amps	11	11 @ 12kW
EB-144-480 (X,H)	480	144	86.6	108.3	110	86.6	108.3	110	15 Amps	12	12 @ 12kW
EB-160-480 (X,H)	480	160	192.5	240.6	250	-	-	-	15 Amps	8	8 @ 20kW
EB-180-480 (X,H)	480	180	120.3	150.4	175	96.2	120.3	125	15 Amps	9	9 @ 20kW
EB-200-480 (X,H)	480	200	120.4	150.4	175	120.3	150.4	175	15 Amps	10	10 @ 20kW
EB-220-480 (X,H)	480	220	144.3	180.4	200	120.3	150.4	175	15 Amps	11	11 @ 20kW
EB-240-480 (X,H)	480	240	144.3	180.4	200	144.3	180.4	200	15 Amps	12	12 @ 20kW
EB-260-480 (X,H)	480	260	168.4	210.5	225	144.3	180.4	200	15 Amps	13	13 @ 20kW
EB-280-480 X	480	280	168.4	210.5	225	168.4	210.5	225	15 Amps	14	14 @ 20kW
EB-280-480 H	480	278	168.4	210.5	225	166.0	207.5	225	15 Amps	13	7 @ 20kW 6 @ 23kW
EB-300-480 X	480	300	192.5	240.6	250	158.4	210.5	225	15 Amps	15	15 @ 20kW
EB-300-480 H	480	299	193.7	242.1	250	166.0	207.5	225	15 Amps	13	13 @ 23kW
EB-060-600 (X,H)	600	60	57.7	72.2	80	-	-	-	15 Amps	5	5 @ 12kW
EB-072-600 (X,H)	600	72	69.3	86.6	90	-	-	-	15 Amps	6	6 @ 12kW
EB-084-600 (X,H)	600	84	80.8	101.0	110	-	-	-	15 Amps	7	7 @ 12kW
EB-096-600 (X,H)	600	96	92.4	115.5	125	-	-	-	15 Amps	8	8 @ 12kW
EB-108-600 (X,H)	600	108	57.7	72.2	80	46.2	57.7	60	15 Amps	9	9 @ 12kW
EB-120-600 (X,H)	600	120	57.7	72.2	80	57.7	72.2	80	15 Amps	10	10 @ 12kW
EB-132-600 (X,H)	600	132	69.3	86.6	90	57.7	72.2	80	15 Amps	11	11 @ 12kW
EB-144-600 (X,H)	600	144	69.3	86.6	90	69.3	86.6	90	15 Amps	12	12 @ 12kW
EB-160-600 (X,H)	600	160	154.0	192.5	200	-	-	-	15 Amps	8	8 @ 20kW
EB-180-600 (X,H)	600	180	96.2	120.3	125	77.0	96.2	100	15 Amps	9	9 @ 20kW
EB-200-600 (X,H)	600	200	96.2	120.3	125	96.2	120.3	125	15 Amps	10	10 @ 20kW
EB-220-600 (X,H)	600	220	115.5	144.3	150	96.2	120.3	125	15 Amps	11	11 @ 20kW
EB-240-600 (X,H)	600	240	115.5	144.3	150	115.5	144.3	150	15 Amps	12	12 @ 20kW
EB-260-600 (X,H)	600	260	134.7	168.4	175	115.5	144.3	150	15 Amps	13	13 @ 20kW
EB-280-600 X	600	280	134.7	168.4	175	134.7	168.4	175	15 Amps	14	14 @ 20kW
EB-280-600 H	600	278	134.7	168.4	175	132.8	166.0	175	15 Amps	13	7 @ 20kW 6 @ 23kW
EB-300-600 X	600	300	154.0	192.5	200	134.7	168.4	175	15 Amps	15	15 @ 20kW
EB-300-600 H	600	299	154.9	193.7	200	132.8	166.0	175	15 Amps	13	13 @ 23kW

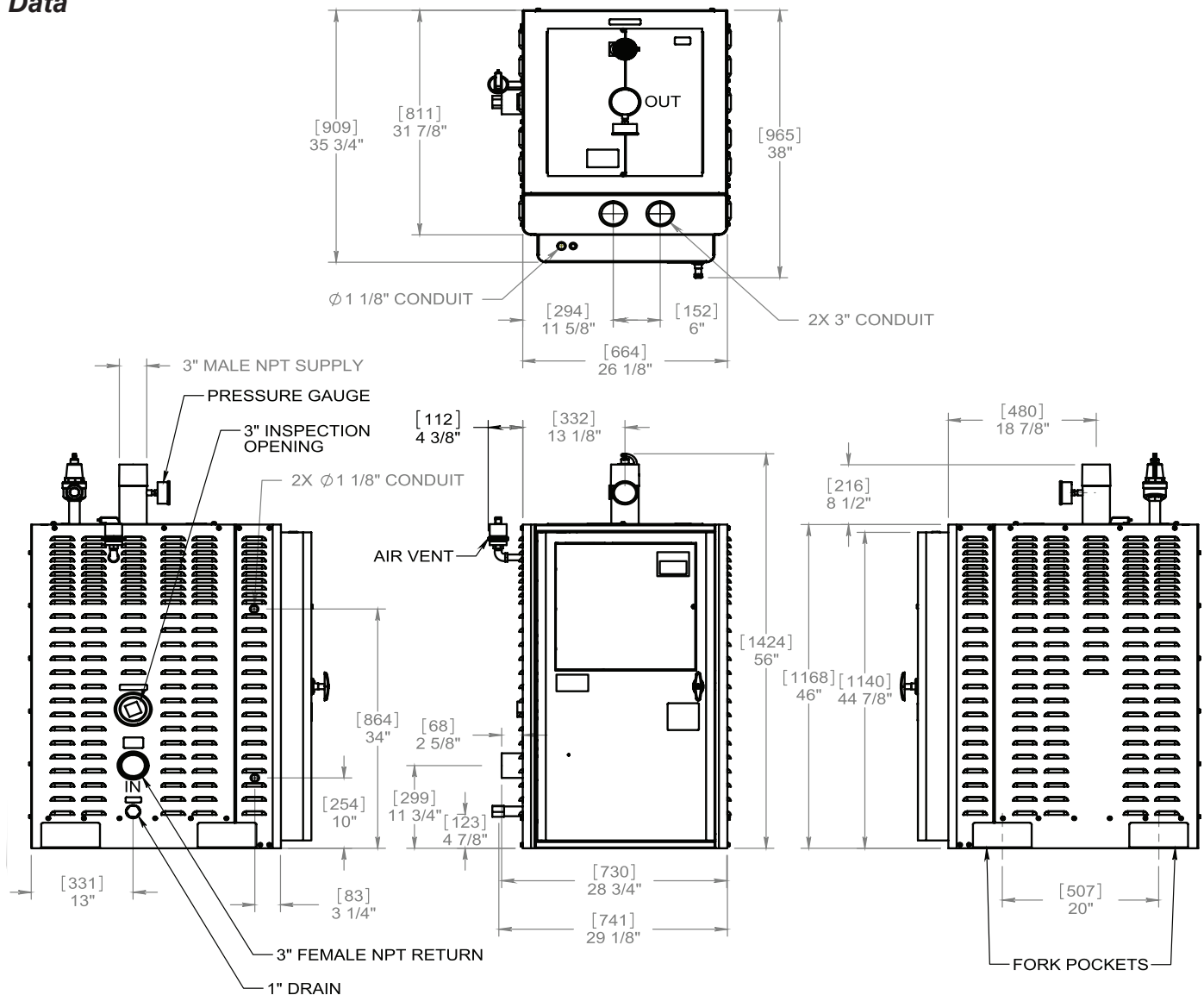
Note: "H" denotes optional 125psi model

Clearances

	Minimum Clearance From Combustible Surfaces		Suggested Minimum Service Clearance	
	inches	cm	inches	cm
Back	0	0	0	0
Left	12	30	24	61
Right	8	20	12	30
Front	24	61	36	91
Top	26	66	26	66

Dimensional Data

Brute® Commercial Electric Boiler



Bradford White reserves the right to change specifications, components, features, or to discontinue products without notice.



200 Lafayette St.
Middleville, MI 49333
Warranty: (800) 531-2111

www.BradfordWhite.com

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