



Lochinvar[®]
HIGH EFFICIENCY BOILERS & WATER HEATERS

**COMMERCIAL ELECTRIC
COMPACT BOILER**

Submittal Sheet

EBC-Sub-07

COMMERCIAL ELECTRIC COMPACT BOILERS

JOB NAME _____

LOCATION _____

ENGINEER _____

WHOLESALE _____

MECH. CONTRACTOR _____

MODEL NO. _____

VOLTAGE/PHASE/KW _____

DESIGN PRESSURE _____

DESIGN TEMPERATURE _____

NOTES

Standard Features

- ASME National Board Registered Pressure Vessel
- Heavy Duty Steel Boiler Vessel Housing
- 4" Fiberglass Insulation
- 3" NPT Inlet and Outlet Connection
- ASME Pressure Relief Valve
- Pressure Gauge with Cock
- Drain Valve
- Adjustable High Limit with Automatic Reset
- Adjustable High Limit with Manual Reset
(units with more than 2 stages)
- Low Water Cut-Off
- Incoloy-Sheathed Elements
- Internal Branch Circuit Fusing
- Magnetic Contactors
- Main Supply Circuit Lugs
- 120 Volt Fused Control Transformer
- On/Off Switch with Pilot Light
- Manual Limit Toggle Switches (1 per step)
- Key Locked Door
- Electric Control Panel
- On/Off Temperature Switches (1 & 2 Step Models)
- Electronic Multi-Stage Control (3 & 4 Step Models)
- Proportional Solid State Step Control
(Units with more than 4 Steps)
- Status Pilot Light for each Step
- Digital Temperature Readout (except 1 & 2 Step)
- Listed by the Underwriters Laboratories
- 3 Year Limited Tank Warranty / 1 Year Parts Warranty
(See warranty for details)

Optional Features

Place an X in the box by all options that apply

- Alarm Bell
- Automatic Breaker
- Flow Switch
- ABB Fused Disconnect
- Non-Fused Disconnect
- Ground Fault Detector
- Low Temperature Switch
- Modulating Step Control
- Kilowatt/Hour Meter
- Flanged Water Connections
- Amp Meter
- Volt Meter
- High Pressure limit switch
- Control Panel door solenoid interlock
- Low water cutoff-float type
- BMS alarm interface
- BMS remote set point control
- BMS remote step control (remote enable)
- BMS 120V interface to limit boiler power demand
- BMS 24V interface to limit boiler power demand
- Time clock
- 304 stainless steel vessel & non ferrous trim
- 3" connections flanged
- 4" connectoins flanged

Commercial Electric Compact Boiler Dimensions & Specifications

Ratings & Circuit Configurations

Model Number	Rating MBH	kW	208 & 240 Volt				480 Volt				600 Volt			
			Elements Qty	kW	Circuits	Number of: Steps@ kW	Elements Qty	kW	Circuits	Number of: Steps@ kW	Elements Qty	kW	Circuits	Number of: Steps@ kW
BW*1-015C	51	15	1	15	1	1@15	1	15	1	1@15	N/A	N/A	N/A	N/A
BW*1-020C	68	20	N/A	N/A	N/A	N/A	1	20	1	1@20	N/A	N/A	N/A	N/A
BW*1-030C	102	30	2	15	2	1@30	2	15	1	1@30	N/A	N/A	N/A	N/A
BW*1-040C	136	40	N/A	N/A	N/A	N/A	2	20	1	1@40	N/A	N/A	N/A	N/A
BW*1-045C	154	45	3	15	3	1@15, 1@30	3	15	2	1@15, 1@30	N/A	N/A	N/A	N/A
BW*1-047C	160	46.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	23.4	1	1@46.8
BW*1-060C	205	60	4	15	4	2@30	4	15	2	2@30	N/A	N/A	N/A	N/A
BW*1-070C	240	70.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	23.4	2	1@23.4, 1@46.8
BW*1-075C	256	75	5	15	5	1@15, 2@30	5	15	3	1@45, 1@30	N/A	N/A	N/A	N/A
BW*1-080C	273	80	N/A	N/A	N/A	N/A	4	20	2	2@40	N/A	N/A	N/A	N/A
BW*1-090C	307	90	6	15	6	3@30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BW*1-094C	319	93.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	23.4	2	2@46.8
BW*1-100C	341	100	N/A	N/A	N/A	N/A	5	20	3	1@20, 2@40	N/A	N/A	N/A	N/A
BW*1-105C	358	105	7	15	7	1@15, 3@30	7	15	4	1@45, 2@30	N/A	N/A	N/A	N/A
BW*1-117C	399	117	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	23.4	3	1@70.2, 1@46.8
BW*1-120C	409	120	8	15	8	4@30	6	20	3	3@40	N/A	N/A	N/A	N/A
BW*2-135C	461	135	9	15	9	1@45, 3@30	9	15	5	1@45, 3@30	N/A	N/A	N/A	N/A
BW*1-140C	478	140	N/A	N/A	N/A	N/A	7	20	4	1@20, 3@40	6	23.4	3	3@46.8
BW*2-150C	512	150	10	15	10	5@30	10	15	5	5@30	N/A	N/A	N/A	N/A
BW*1-160C	546	160	N/A	N/A	N/A	N/A	8	20	4	4@40	N/A	N/A	N/A	N/A
BW*1-164C	559	163.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	23.4	4	1@70.2, 2@46.8
BW*2-165C	563	165	11	15	11	1@45, 4@30	11	15	6	1@45, 4@30	N/A	N/A	N/A	N/A
BW*2-180C	614	180	12	15	12	6@30	10	18	5	5@36	N/A	N/A	N/A	N/A
BW*1-187C	639	187.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	23.4	4	4@46.8
BW*2-200C	682	200	N/A	N/A	N/A	N/A	10	20	5	5@40	N/A	N/A	N/A	N/A
BW*3-210C	717	210	N/A	N/A	N/A	N/A	14	15	7	7@30	N/A	N/A	N/A	N/A
BW*2-211C	719	210.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	23.4	5	1@70.2, 3@46.8
BW*3-225C	768	225	N/A	N/A	N/A	N/A	15	15	8	1@45, 6@30	N/A	N/A	N/A	N/A
BW*2-234C	798	234	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	23.4	5	5@46.8
BW*2-240C	819	240	N/A	N/A	N/A	N/A	12	20	6	6@40	N/A	N/A	N/A	N/A
BW*2-257C	878	257.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	23.4	6	1@70.2, 4@46.8
BW*3-280C	955	280	N/A	N/A	N/A	N/A	14	20	7	7@40	N/A	N/A	N/A	N/A
BW*2-281C	985	280.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	23.4	6	6@46.8
BW*3-300C	1024	300	N/A	N/A	N/A	N/A	15	20	8	1@20, 7@40	N/A	N/A	N/A	N/A
BW*3-304C	1038	304.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	23.4	7	1@70.2, 5@46.8
BW*3-320C	1092	320	N/A	N/A	N/A	N/A	16	20	8	8@40	N/A	N/A	N/A	N/A
BW*3-330C	1126	330	N/A	N/A	N/A	N/A	22	15	11	5@30, 3@60	N/A	N/A	N/A	N/A
BW*3-351C	1198	351	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	23.4	8	1@70.2, 6@46.8
BW*3-360C	1228	360	N/A	N/A	N/A	N/A	20	18	10	6@36, 2@72	N/A	N/A	N/A	N/A
BW*3-398C	1357	397.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	23.4	9	1@70.2, 7@46.8
BW*3-400C	1365	400	N/A	N/A	N/A	N/A	20	20	10	6@40, 2@80	N/A	N/A	N/A	N/A
BW*3-421C	1437	421.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18	23.4	9	2@70.2, 6@46.8
BW*3-440C	1501	440	N/A	N/A	N/A	N/A	22	20	11	5@40, 3@80	N/A	N/A	N/A	N/A
BW*3-445C	1517	444.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19	23.4	10	3@70.2, 5@46.8
BW*3-468C	1597	468	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	23.4	10	4@70.2, 4@46.8
BW*3-491C	1677	491.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	23.4	11	5@70.2, 3@46.8

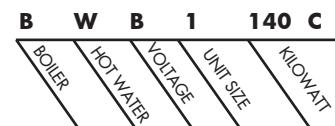
Notes: # = Oversize control cabinets are supplied for these models at 208 & 240 volts.

VOLTAGE SCHEDULE

A - 240V	1PH
B - 240V	3PH
J - 208V	1PH
K - 208V	3PH
X - 480V	3PH
N - 600V	3PH

Operating temperature and pressure are requested prior to placing an order.

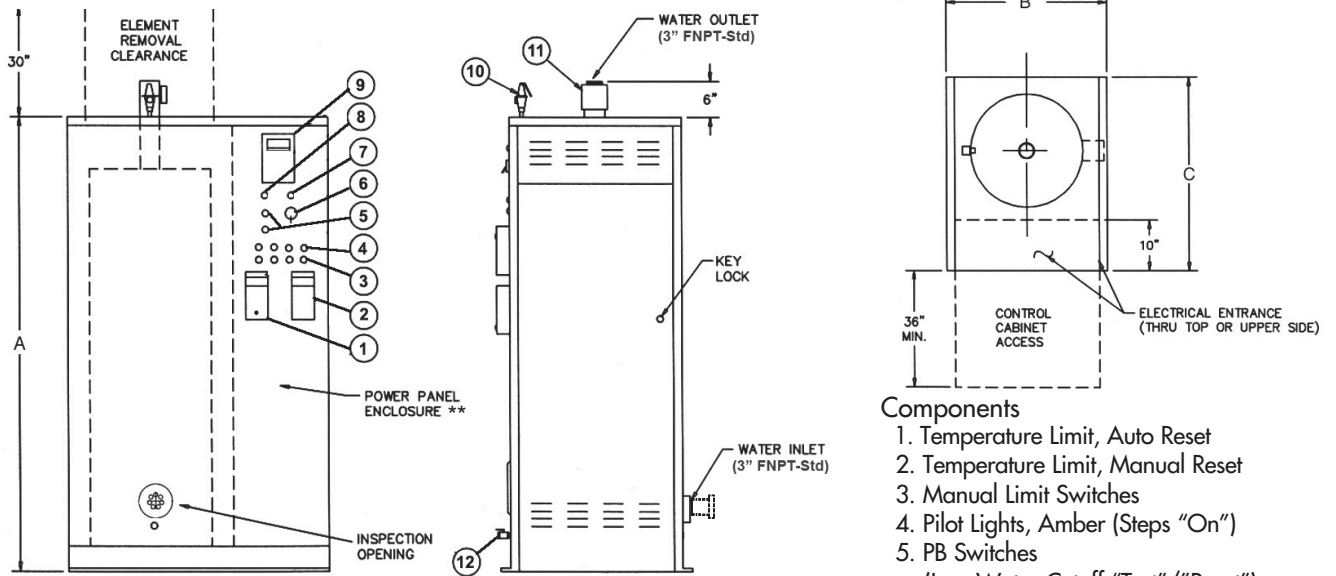
FOR EASE IN ORDERING
BY MODEL NUMBER



This is a 240 volt, three phase, 140 Kilowatt compact size electric hot water boiler.

Consult Factory for single phase units

Commercial Electric Compact Boiler Dimensions & Specifications



Model Number	Max. Flow (gpm)	Connection Sizes (NPT)	Dia (In)	Vol (Gal)	Dimensions			Weight lbs.
					A	B	C	
BW*1-**C	230	3"	12"	22	52"	24"	30"	600
BW*2-**C	230	3"	16"	36	52"	28"	34"	800
BW*3-**C	230*	3"	20"	56	52"	32"	38"	1100

*4"/300 GPM is Optional ** Power Panel will be taller or wider for ABB Disconnect option. Consult factory.

Components

1. Temperature Limit, Auto Reset
2. Temperature Limit, Manual Reset
3. Manual Limit Switches
4. Pilot Lights, Amber (Steps "On")
5. PB Switches
(Low Water Cutoff "Test"/"Reset")
6. Toggle Switch (Control Power)
7. Pilot Light, Amber (Control Power "On")
8. Pilot Light, Red (Low Water)
9. Temperature Setpoint / Control / Readout
10. Safety Relief Valve
11. Temperature & Pressure Gauges
12. Drain Valve



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