

FBE Series:

FB-108-E

108 kW

Electric Steam Boiler



Fulton's FBE is a compact and reliable electric steam boiler capable of producing high-quality steam with nearly 100% efficiency. It is a clean running, combustion-free boiler with an ASME-M Stamp "Miniature Boiler" Certification. The compact design allows for use in small installation locations. The FBE is best used in applications that require high quality steam and a highly efficient boiler.

STANDARD FEATURES:

- Vertical heat exchanger
- Thick wall construction
- 99% Operating efficiencies
- 100 PSIG maximum allowable working pressure
- Can be trimmed 15, 50, or 100 PSIG
- Operating and high pressure limit switches
- NEMA 1 enclosure with locking electrical panel
- Zero NOx emissions
- Incoloy elements
- Stainless steel cabinet
- Low water light
- MM-150 float type level control
- MM-150 PLWCO with auto reset
- Probe type ALWCO with manual reset
- 5 year pressure vessel warranty expandable up to 10 years**

OPTIONS:

- Element step sequencer
- Stainless steel pressure vessel
- Auto bottom blowdown
- Boiler alarm package
- Control circuit transformer

PROJECT DETAILS:

Project Name	
Date Submitted	
Fulton Representative	

City, State (Province)	
Engineer of Record	
Contractor	

LISTINGS & COMPLIANCE:

- ASME Section I code, "M" stamp
- UL approved
- CSD-1 and CSA Controls
- Exceeds AHRAE 90.1 efficiency requirements

TRIM KIT ITEMS:

- ASME Safety Relief Valve
- Pressure Gauge
- Installation, Operation and Maintenance Manual
- Gauge Glass and Protector Rods

NOTE:

Information provided in this document is based on standard boiler configurations only. Custom configurations may result in deviations.

** With engineered system per Fulton warranty statement

CAPACITIES:

FBE		FB-108-E	
Unit Size	HP	10.8	
	kW	108	
Rated Output	BTU/hr	368,560	
Steam Output F&A 212 F 0 PSIG	lbs/hr	380	
	kg/hr	172	

CONNECTION SIZES:

FBE		FB-108-E	
Trim		15 PSI	100 PSI
Steam Outlet	inches	3	1 1/2
	mm	76	38
Feedwater Inlet	inches	1/2	1/2
	mm	13	13
Bottom Blowdown	inches	1	1
	mm	25	25
Water Column Drain	inches	1	1
	mm	25	25
Safety Valve Inlet x Outlet	inches	1 x 1 1/4	1 x 1 1/4
	mm	25 x 32	25 x 32

ELECTRICAL REQUIREMENTS:

FBE		FB-108-E				
Electrical Supply	Volts	208	240	380	480	575
	\emptyset	3	3	3	3	3
	Hz	60	60	60	60	60
Short Circuit Current Rating	Amps	5,000	5,000	5,000	5,000	5,000
NEMA Rating		1	1	1	1	1
Full Load Amps (FLA)*	Amps	300	260	165	130	104

*FLA is subject to change based on options, consult factory for job specific FLA

WEIGHTS & VOLUMES:

FBE		FB-108-E	
Water Capacity	gallons	18	
	liters	68	
Dry Weight	lbs	423	
	kg	192	
Operating Weight	lbs	573	
	kg	260	

ELEMENTS:

	FBE	FB-108-E
Number Of Elements:		QTY (6) 18 kW

DIMENSIONS:

Refer to the Product Data Submittal Drawing for dimensions.