

FBE Series:

FB-144-E

144 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-144-E
Unit Size	HP		14.4
	kW		144
Rated Output	BTU/hr		491,413
Steam Output F&A 212 F 0 PSIG	lbs/hr		506
	kg/hr		230

CONNECTION SIZES:

		FBE	FB-144-E	
Trim			15 PSI	100 PSI
Steam Outlet	inches		3	2
	mm		76	51
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 1/2	1 x 1 1/4
	mm		25 x 38	25 x 32

ELECTRICAL REQUIREMENTS:

		FBE	FB-144-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		400	347	219	173	139

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

WEIGHTS & VOLUMES:

		FBE	FB-144-E
Water Capacity	gallons		23
	liters		87
Dry Weight	lbs		645
	kg		293
Operating Weight	lbs		837
	kg		380

ELEMENTS:

	FBE	FB-144-E
Number Of Elements:		QTY (8) 18 kW

DIMENSIONS:

Refer to the Product Data Submittal Drawing for dimensions.