

TECHNICAL DATA SHEET

FBE Series: FB-048-E 48 kW Electric Steam Boiler



Fulton's FBE is a compact and reliable electric steam boiler capable of producing highquality 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 efficiences
- 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	

LISTINGS & COMPLIANCE:

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

City, State (Province)	
Engineer of Record	
Contractor	

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



Fulton practices continuous product improvement and reserves the right to change specifications and/or dimensions without notice. Always refer to the current documentation available for download on <u>Fulton.com</u>

CAPACITIES:

	FBE	FB-048-E
Unit Size	HP	4.8
	kW	48
Rated Output	BTU/hr	163,693
Steam Output F&A 212 F 0 PSIG	lbs/hr kg/hr	169 77

CONNECTION SIZES:

	FBE		FB-048-E
Trim		15 PSI	100 PSI
Oha ana Ohathat	inches	1	1
Steam Outlet	mm	25	25
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	1/2 x 3/4	3/4 x 1
	mm	13 x 19	19 x 25

ELECTRICAL REQUIREMENTS:

	FBE			FB-048-E		
Electrical Supply	Volts Ø Hz	208 3 60	240 3 60	380 3 60	480 3 60	575 3 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	134	116	73	59	47

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

WEIGHTS & VOLUMES:

	FBE	FB-048-E
Water Capacity	gallons liters	9 34
Dry Weight	lbs kg	356 161
Operating Weight	lbs kg	431 <i>195</i>



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ELEMENTS:

FBE	FB-048-E	FB-048-E	
Number Of Elements:	QTY (1) 12 kW	QTY (2) 18 kW	

DIMENSIONS:

Refer to the Product Data Submittal Drawing for dimensions.



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