

TECHNICAL DATA SHEET

FBZ Series: FBZ-0150



Fulton's FBZ is engineered to address the needs of sustainable energy, delivering nearly 100% efficiency and premium steam quality. The FBZ achieves zero scope 1 emissions by removing the use of fossil fuels and combustion methods, presenting an environmentally friendly solution for a range of industrial and commercial uses.

STANDARD FEATURES:

- Vertical footprint
- Thick wall construction
- 99%+ Operating efficiences
- 150 PSIG maximum allowable working pressure
- Near zero jacket loss
- · Operating and high pressure limit switches
- NEMA 1 enclosure with locking electrical panel
- Zero scope 1 emissions
- Incoloy sheathed elements
- Control circuit transformer
- Low water light
- On/off probe type level control
- Two (2) low water cutoff probes,
 (1) with auto reset
- (1) with manual reset
- Modbus integration
- 5.7" touchscreen with PLC
- SCR Control
- 10 year pressure vessel warranty

OPTIONS:

Stainless steel jacket Conductivity based surface blowdown Timer based bottom blowdown High water overflow protection Reflex type sight glass Boiler alarm package Remote E-Stop MM-150 ALWCO MM-157 PLWCO and pump control MM-193-7b PLWCO modulating level control Differential pressure level control Differential pressure level control On/off motorized FW valve & 3-valve bypass On/off FW solenoid valve BACnet integration

PROJECT DETAILS:

Project Name	
Date Submitted	
Fulton Representative	

LISTINGS & COMPLIANCE:

- ASME Section I or IV Code
- ETL Approved to UL-834
- CSD-1 and CSA Controls
- Exceeds AHRAE 90.1 efficiency requirements
- Control Panel Wired in a UL-508 Factory

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
- Touch-up Spray

NOTE:

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



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:

	FBZ	FBZ-0150
Unit Size	kW	150
Rated Output (At 0 psig operating pres- sure and 212F feedwater temperature)	BTU/hr	511,800
	Boiler HP	15.3
	lbs/hr	525
	kg/hr	238

CONNECTION SIZES:

	FBZ	FBZ-0150
Steam Outlet at 150 PSI trim	inches	2
	mm	51
Steam Outlet	inches	3
at 15 PSI trim	mm	76
Feedwater Inlet	inches	1
r eedwater nilet	mm	25
Bottom Blowdown Outlet	inches	1-1/4
	mm	32
	inches	3/4
High Water Protection	mm	19
Surface Blowdown	inches	3/4
Surface blowdown	mm	19
Water Column Drain	inches	1
	mm	25
Safety Relief Valve	inches	3/4 x 1
Inlet x Outlet Section I 150 PSI trim	mm	19 x 25
Safety Relief Valve	inches	1-1/2 x 2
Inlet x Outlet Section I 15 PSI trim	mm	38 x 52



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ELECTRICAL REQUIREMENTS:

	FBZ		FBZ	-0150	
Short Circuit Current Rating	kA		10	00*	
NEMA Rating				1	
Electrical Supply	Volts ∅ Hz	208 1 60	240 1 60	480 3 60	600 3 60
Full Load Amps	Amps	421	364	182	146
MCA	Amps	526	455	228	183
MOCP	Amps	947	819	410	329

*In the absence of rated upstream disconnect(s), Fulton FBZ boilers carry a 5kA SCCR. FBZ is supplied as standard with contactors, fuse blocks, fuses, and internal power distribution blocks with 100kA SCCR. In order to meet elevated SCCR per NFPA 70 Article 424, FBZ boilers must be supplied with electrical feeds rated at or be-low 600 MCA. Each of these feeds must be installed with external power disconnects or appropriate fusing of the desired SCCR. A maximum of 100kA SCCR is possible. Consult your local jurisdiction for any additional requirements.

WEIGHTS AND VOLUMES:

	FBZ	FBZ-0150
Water Capacity	gallons liters	93 352
Dry Weight	lbs kg	1,350 612
Operating Weight	lbs kg	2,125 964
Shipping Weight	lbs kg	1,500 680
Flooded Weight	lbs kg	2,400 1,089

ELECTRIC HEATERS:

FBZ	FBZ-0150
Number Of Heaters:	QTY (5) 30 KW
Turndown	100:1 with full modulation

DIMENSIONS:

Refer to the Product Data Submittal Drawing for dimensions.



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