Technical Data

Electric Boiler

Models: FB-500-L

Standard Features and Devices

- Vertical Heat Exchanger
- 99% operating efficiency
- 150 psig Design*
- Thick walled construction
- 5 year pressure vessel warranty expandable to 10 years**
- Near zero jacket loss
- Incoloy Elements
- Operating and high pressure limit switches
- Two (2) low later cut off probes, (1) auto reset (1) with manual reset
- NEMA 1 enclosure with locking electrical panel
- Zero NOx Emissions
- Step Sequencer

Control Options

- Automated surface blowdown
- Control panel disconnect
- High water over flow protection
- Boiler alarm package
- BACnet Integration Gateway
- Automatic bottom blowdown
- Float type level controls and low water cut off

Listings & Compliance

- ASME Section I Code, “S” Stamp
- Certified to UL-834 & CAN/CSA-C22.2 No. 165-92 Standard
- CSD-1 & CSA Controls
- Control Panel Wired in a UL 508 Facility

Trim Kit Items (Loose)

- Feedwater Stop and Check Valves
- Blowdown (1) quick (1) slow opening
- ASME safety relief valve
- Steam pressure test valve
- Site glass drain and sample valve
- Water column drain valve
- Surface blowdown valve
- Standard steam stop valve for units operating >75psig
- ASME B31.1 Boiler External Piping (Section I only)

*15 psig design is available – consult factory.

**With engineered system per Fulton Warranty Statement

Information provided in this document is based on standard boiler configurations. Alternate or custom configurations may result in deviations. Fulton practices continuous product improvement and reserves the right to change specifications and/or dimensions without notice.

Capacities (at 0-2,000 ft. altitude)

		FB-500-L
Unit Size	HP	50.0
	kW	500
Rated Output	BTU/hr	1,706,000
Steam Output, F&A 212 °F & 0 psig	lb/hr	1,758
	kg/hr	*797.4*

Connection Sizes

		FB-500-L
Steam Outlet <75 psig (operating)	Inches	4
	mm	*101.6*
Steam Outlet 75-135 psig (operating)	Inches	3
	mm	*76.2*
Feedwater Inlet (NPT)	Inches	1
	mm	*25.4*
Bottom Blowdown (NPT)	Inches	1 1/2
	mm	*38.1*
Surface Blowdown (NPT)	Inches	3/4
	mm	*19.05*
Water Column Drain (NPT)	Inches	1
	mm	*25.4*
Sight Glass Drain (NPT)	Inches	1/4
	mm	*6.35*
Safety Valve Inlet x Outlet Connection 150 psig Design: Trim Pressure: 15 psig	Inches	2 x 2 1/2
	mm	*50.8 x 63.5*
Safety Valve Inlet x Outlet Connection 150 psig Design: Trim Pressure: 30 psig	Inches	1 1/2 x 2
	mm	*38.1 x 50.8*
Safety Valve Inlet x Outlet Connection 150 psig Design: Trim Pressure: 50 psig	Inches	1 1/2 x 2
	mm	*38.1 x 50.8*
Safety Valve Inlet x Outlet Connection 150 psig Design: Trim Pressure: 75 psig	Inches	1 1/4 x 1 1/2
	mm	*31.8 x 38.1*
Safety Valve Inlet x Outlet Connection 150 psig Design: Trim Pressure: 100 psig	Inches	1 x 1 1/4
	mm	*25.4 x 31.8*
Safety Valve Inlet x Outlet Connection 150 psig Design: Trim Pressure: 150 psig	Inches	1 x 1 1/4
	mm	*25.4 x 31.8*

Water Capacity

		FB-500-L
Operating	Gal	157
Flooded	Gal	214

Elements

		FB-500-L
Number of Elements		(QTY 6) 75kW (QTY 1) 50kW
Element Watt Density	WSI	58 (75kW) 61 (50kW)

Electrical Requirements*

		FB-500-L
240V, 60, 3 ø	Full Load Amps (FLA)	1,206
480V, 60, 3 ø		603
575V, 60, 3 ø		504

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

Electric Boiler Steps via Step Sequencer

Steps via Step Sequencer	FB-500-L
240V, 60, 3 ø	10
480V, 60, 3 ø	7
575V, 60, 3 ø	7

No information provided in the document constitutes a guarantee, consult factory for any guarantees