STIEBEL ELTRON

Simply the Best

SB-E Indirectly Fired Water Heater Tanks

Features

» Heavy gauge steel with porcelain enamel coating
» Superb quality with long service life
» 3 kW electric heating element
» Fitted with one large heat exchangers
» 2 auxiliary ports
» Sacrificial anode rod
» Up to 2″ R-14 urethane foam insulation for low standby heat loss
» Large clean out port for ease of maintenance
» Powder-coated steel outer jacket
» Limited lifetime warranty

Models & Specifications

	SB 300 E	SB 400 E
Item Number	234110	234111
Hydraulic data		
Storage Capacity	79.3 gal / 300 l	105.6 gal / 400 l
Volume of heat exchanger	2.4 gal / 9.5 l	2.9 gal / 11.1 l
Surface area of heat exchanger	16.1 ft^2 / 1.5 m^2	20.6 ft^2 / 1.9 m^2
Heating element		
Heating element voltage	220-240 V	
Heating capacity	3.0 kW / 10,239 BTU/hr	
Frequency	60 Hz	
Rated current	12.5 A	
Required circuit breaker	20 A	
Heating element type	Dome element	
Heating element material	Ceramic	
Temperature control	Knob with °F & °C scale under the heating element cover	
Set range of thermostat	86°F-167°F / 30°C-75°C	
Miscellaneous		
Pressure drop at 4.4 gpm	3.7 ft. head / 11 kPa	4.0 ft. head / 12 kPa
Heat exchanger power rating Inlet 50 °F, 140 °F Outlet	165,000 BTU/hr / 48.4 kW	183,000 BTU/hr / 53.7 kW
Recovery rate (maximum input)	234 gal/hr / 885 l/hr	258 gal/hr / 976 l/hr
Recover rate (electric element only)	13.7 gal/hr / 51.8 l/hr	13.7 gal/hr / 51.8 gal/hr
Max. tank pressure	145 PSI / 10 bar	
Max. heat exchanger pressure	145 PSI / 10 bar	
Max. tank temperature	203°F / 95°C	
Tank heat loss in 24 hours	2.8 kW / 9,553 BTU	3.0 kW / 10,236 BTU
Empty weight	313 lb / 142 kg	399 lb / 181 kg
Filled weight	1,010 lb / 458 kg	1,334 lb / 605 kg
Type of anode	Magnesium with wear indicator	
Dimensions		
Height	61 1/8 in / 1552 mm	60 13/16 in / 1544 mm
Diameter	25 9/16 in / 650 mm	29 1/2 in / 750 mm
Insulation thickness	2 in / 50 mm	
Diameter without insulation	21 5/8 in / 550 mm	25 9/16 in / 650 mm

Tested and Certified by Water Quality Association against NSF/ANSI 372 for lead free compliance.

ISO 9001 CERTIFIED

Certified to UL Std. 174
Conforms to CAN/CSA Std. 22.2 No. 110-94

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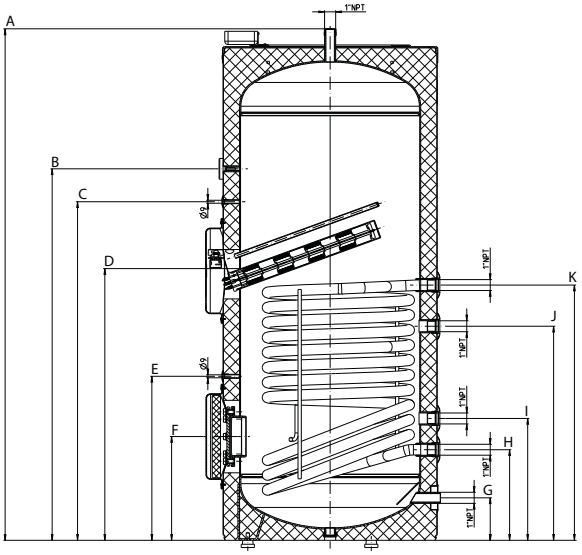
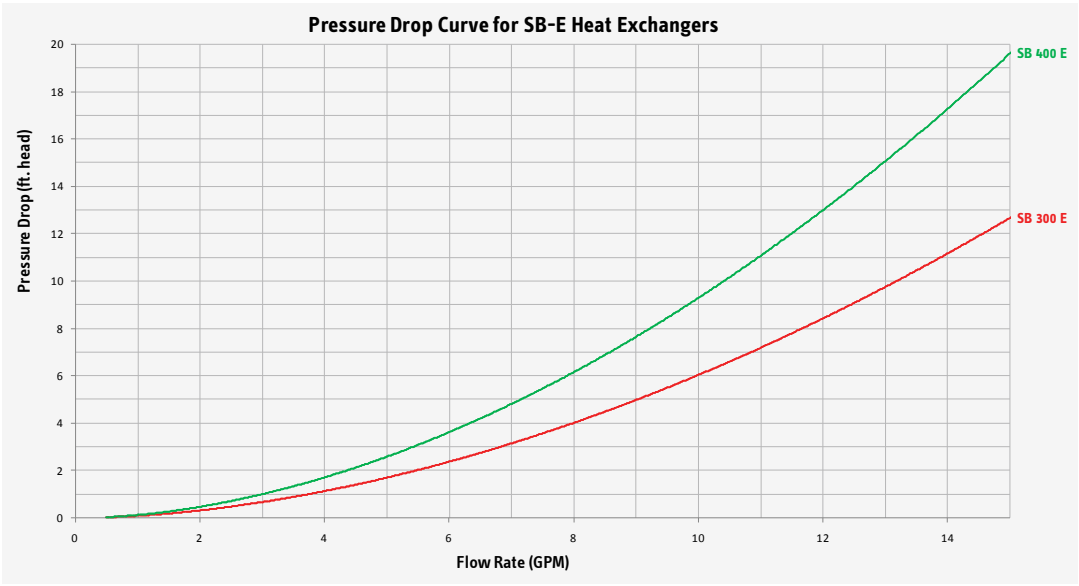
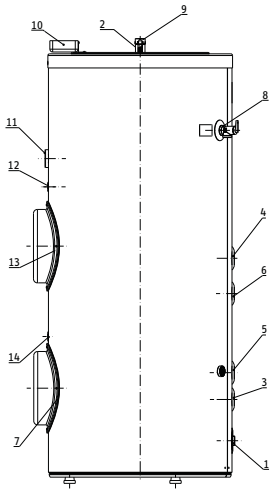
Dimensions



Type			SB 300 E	SB 400 E	Connection
A	Height to hot water outlet (overall height)	in/mm	61 1/8 / 1552	60 13/16 / 1544	1" NPT male
B	Height to thermometer	in/mm	44 7/16 / 1128	45 1/16 / 1145	
C	Height to upper temperature probe sensor sleeve	in/mm	40 1/2 / 1028	42 3/4 / 1085	Ø 9mm
D	Height to heating element port	in/mm	32 1/2 / 825	34 7/8 / 886	
E	Height to lower temperature sensor sleeve	in/mm	30 1/2 / 775	32 11/16 / 830	Ø 9mm
F	Height to clean-out port	in/mm	12 3/8 / 315		Ø 115mm
G	Height to cold water inlet	in/mm	5 1/16 / 129	4 5/16 / 110	1" NPT male
H	Height to heat exchanger lower port	in/mm	10 13/16 / 275	11 / 280	1" NPT female
I	Height to auxiliary heat source lower port	in/mm	14 9/16 / 370		1" NPT female
J	Height to auxiliary heat source upper port	in/mm	25 9/16 in. / 650	27 9/16 / 700	1" NPT female
K	Height to heat exchanger upper port	in/mm	19 5/8 in. / 498 mm		1" NPT female
L	Height to T&P valve port	in/mm	48 1/4 in. / 1228 mm		3/4" NPT female





1 Cold water inlet
2 Hot water outlet
3 Lower heat exchanger port
4 Upper heat exchanger port
5 Lower auxiliary port
6 Upper auxiliary port
7 Clean-out port
8 T&P valve port
9 Anode replacement indicator
10 Junction box
11 Analog thermometer
12 Upper temperature sensor sleeve
13 Electric heating element
14 Lower temperature sensor sleeve

Specification

Tank shall be constructed of steel with porcelain enamel coating on all surfaces in contact with DHW. Tank shall be insulated with urethane foam insulation 2 in. (50 mm.) thick to R-14 with an steel outer casing cover. Standby heat loss shall be between 2.6 and 3.5 kWh (8,871-11,942 BTU) per 24 hours. Tank shall be delivered in cardboard packaging on a one-way pallet. Tank shall have been pressure tested to 217 PSA/15 bar and the maximum operating pressure shall be 145 PSI/10 bar. Tank shall be ETL certified in USA and Canada to IAS U.S. Requirements for Indirect Fired Water Heaters For Use With External Heat Source. No 1-91, Dated June 6, 1992. Tank shall be equipped with welded steel plain-ended pipe heat exchangers, hot water corrosion protection via special enamel coating and magnesium sacrificial anode, two immersion sleeves for housing of temperature probe and thermometer, 2 auxiliary circulation ports, inspection/cleaning port with cover.

Engineer/Architect _____ Date _____

Job Name/Customer _____ Location _____

Contractor _____ Representative _____

	Qty	Volume
SBB model _____	_____	_____

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