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
- » 10-year limited warranty

Models & Specifications

	SB 300 E	SB 400 E		
tem Number	234110	234111		
lydraulic data				
Storage Capacity	79.3 gal (300 l)	105.6 gal (400 l)		
/olume of heat exchanger	2.4 gal (9.5 l)	2.9 gal (11.1 l)		
urface area of heat exchanger	16.1 ft ² (1.5 m ²)	20.6 ft ² (1.9 m ²)		
eating element				
ating element voltage	220-240 V			
eating capacity	3.0 kW (10,239 Btu/hr)			
requency	60 Hz			
ated current	12.	12.5 A		
equired circuit breaker	20) A		
ating element type	Dome e	element		
eating element material	Cera	Ceramic		
mperature control	Knob with °F & °C scale und	er the heating element cover		
et range of thermostat	86-167°F	(30-75°C)		
liscellaneous				
essure drop at 4.4 gpm	3.7 ft. head (11 kPa)	4.0 ft. head (12 kPa)		
eat exchanger power rating let 50 °F, 140 °F Outlet	165,000 Btu/hr (48.4 kW)	183,000 Btu/hr (53.7 kW)		
ecovery rate (maximum input)	234 gal/hr (885 l/hr)	258 gal/hr (976 l/hr)		
cover rate (electric element only)	13.7 gal/hr (51.8 l/hr)	13.7 gal/hr (51.8 l/hr)		
ax. tank pressure	145 psi (10 bar)			
ax. heat exchanger pressure	145 psi (10 bar)			
lax. tank temperature	203 °F	203 °F (95 °C)		
ank heat loss in 24 hours	2.8 kW (9,553 Btu)	3.0 kW (10,236 Btu)		
mpty weight	313 lb (142 kg)	399 lb (181 kg)		
illed weight	1,010 lb (458 kg)	1,334 lb (605 kg)		
/pe of anode	Magnesium with wear indicator			
imensions				
leight	61 ¹ /8 in (1552 mm)	60 ¹³ /16 in (1544 mm)		
iameter	25 ⁹ /16 in (650 mm)	29½ in (750 mm)		
nsulation thickness	2 in (50 mm)			
Diameter without insulation	21 ⁵ /8 in (550 mm)	25%16 in (650 mm)		





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

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Dimensions



Туре		SB 300 E	SB 400 E	Connection
Α	Height to hot water outlet, overall height	61 ¹ /8" (1552 mm)	60 ¹³ /16" (1544 mm)	1" NPT male
в	Height to thermometer	44 ⁷ /16" (1128 mm)	45 ¹ /16" (1145 mm)	
	Height to upper temperature probe sensor sleeve	401/2" (1028 mm)	42¾" (1085 mm)	Ø9mm
)	Height to heating element port	32½" (825 mm)	34 ⁷ /8" (886 mm)	
	Height to lower temperature sensor sleeve	30½" (775 mm)	32 ¹¹ /16" (830 mm)	Ø 9 mm
	Height to clean-out port	123/8" (315 mm)		Ø 115 mm
i	Height to cold water inlet	51/16" (129 mm)	45/ ₁₆ " (110 mm)	1" NPT male
1	Height to heat exchanger lower port	10 ¹³ /16" (275 mm)	11" (280 mm)	1" NPT female
	Height to auxiliary heat source lower port	14 ⁹ /16" (370 mm)		1" NPT female
	Height to auxiliary heat source upper port	25%16" (650 mm)	27%/16" (700 mm)	1" NPT female
(Height to heat exchanger upper port	195/8" (498 mm)		1" NPT female
	Height to T&P valve port	48¼″ (1228 mm)		3/4" NPT female





- 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 psi (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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