STIEBEL ELTRON

Simply the Best

SBB Indirectly Fired Water Heater Tanks

Features

» Heavy gauge steel with porcelain enamel coating
» Superb quality with long service life
» Fitted with one or two large heat exchangers
» Sacrificial anode rod
» Up to 3″ R-21 urethane foam insulation for low standby heat loss
» Large clean out port for ease of maintenance
» Limited lifetime warranty

Left to right:
SBB 300
SBB 400
SBB 600 Plus

Models & Specifications

	SBB 300 S	SBB 400 S	SBB 300 Plus	SBB 400 Plus	SBB 600 Plus
Item Number	221219	221222	187873	187874	187875
Contents					
Storage Capacity	82.5 gal / 305 l	110.8 gal / 411 l	80.6 gal / 305 l	108.6 gal / 411 l	162.9 gal / 617 l
Volume of heat exchanger, top	NA	NA	1.9 gal / 7.3 l	2.2 gal / 8.2 l	2.5 gal / 9.6 l
Volume of heat exchanger, bottom	2.7 gal / 10.1 l	2.9 gal / 11.3 l	2.7 gal / 10.1 l	2.9 gal / 11.3 l	3.5 gal / 13.2 l
Pressure					
Working pressure	150 PSI / 10 bar	150 PSI / 10 bar	150 PSI / 10 bar	150 PSI / 10 bar	150 PSI / 10 bar
Tested to pressure	217 PSI / 15 bar	217 PSI / 15 bar	217 PSI / 15 bar	217 PSI / 15 bar	217 PSI / 15 bar
Max. pressure of upper loop	NA	NA	150 PSI / 10 bar	150 PSI / 10 bar	150 PSI / 10 bar
Temperature					
Max. temperature of lower loop	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C
Max temperature of upper loop	NA	NA	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C
Heat exchanger					
Surface area heat exchanger top	NA	NA	1,705 sq. in / 1.1 m²	2,015 sq. in / 1.3 m²	2,945 sq. in/ 1.9 m²
Surface area heat exchanger bottom	2,325 sq. in / 1.5 m²	2,635 sq. in / 1.7 m²	2,325 sq. in / 1.5 m²	2,635 sq. in / 1.7 m²	3,875 sq. in / 2.5 m²
Output rating heat exchanger top	NA	NA	111,000 BTU/hr / 32 kW	128,000 BTU/hr / 37 kW	182,000 BTU/hr / 53 kW
Output rating heat exchanger bottom	150,000 BTU/hr / 44 kW	164,000 BTU/hr / 48 kW	150,000 BTU/hr / 44 kW	164,000 BTU/hr / 48 kW	242,000 BTU/hr / 71 kW
Weights					
Tank weight empty	292 lb / 133 kg	371 lb / 169 kg	339 lb / 154 kg	412 lb / 187 kg	544 lb / 247 kg
Tank weight full	988 lb / 448 kg	1304 lb / 591 kg	1051 lb / 477 kg	1362 lb / 618 kg	1955 lb / 887 kg
Other					
Standby losses in 24 hours	6500 BTU / 1.9 kWh	7500 BTU / 2.2 kWh	6500 BTU / 1.9 kWh	7500 BTU / 2.2 kWh	10000 BTU / 2.9 kWh
Cold/hot water connection			1″ copper pipe via adapter		
Dimensions					
Height with insulation	66 3/32 in / 1,679 mm	72 11/16 in / 1,848 mm	66 3/32 in / 1,679 mm	72 11/16 in / 1,848 mm	68 5/16 in / 1,735 mm
Width with insulation	27 9/16 in / 700 mm	29½ in / 750 mm	27 9/16 in / 700 mm	29½ in / 750 mm	36¼ in / 920 mm *
Width of insulation	3 in / 75 mm	3 in / 75 mm	3 in / 75 mm	3 in / 75 mm	3 11/32 in / 85 mm *

* Insulation is partially removable to reduce width to 31.5″ for clearance purposes

SBB tanks are ETL certified in US 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

ISO 9001 CERTIFIED

SACC OG-300 CERTIFIED

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

rev. 8.2017 Due to our continuous process of engineering and technological advancement, specifications may change without notice.

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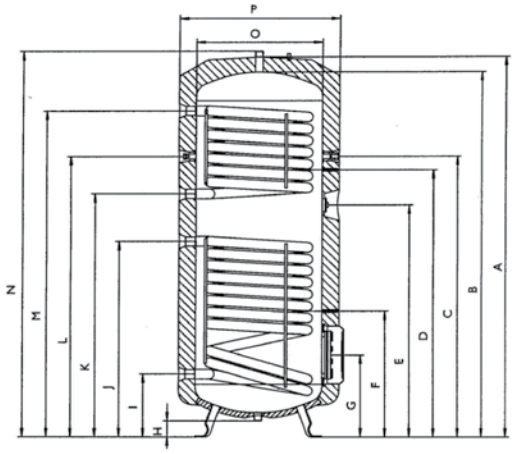
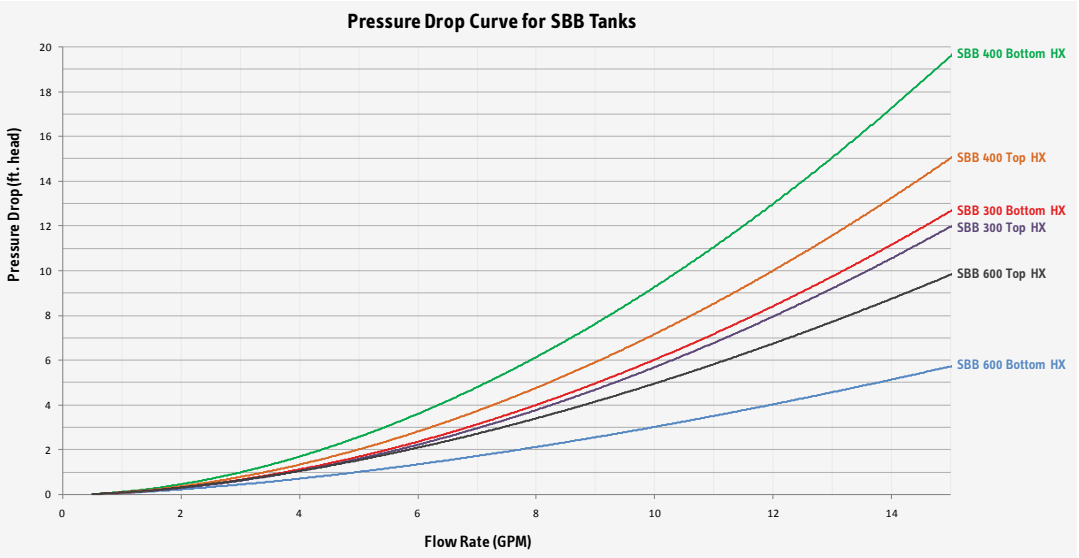
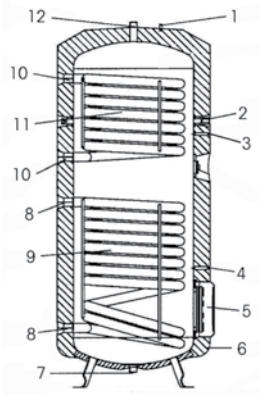
Dimensions



Type			SBB 300 Plus	SBB 400 Plus	SBB 600 Plus
A	Height of unit w/insulation	in/mm	66.1/1679	72.7/1848	68.3/1735
B	Height of unit without insulation	in/mm	63.3/1609	70.1/1781	65.7/1670
C	Height of well for temp. sensor	in/mm	46.4/1179	48.7/1238	46.9/1192
D	Height thermometer	in/mm	41.1/1045	43.0/1093	41.5/1055
E	Height spare port	in/mm	40.3/1025	42.4/1078	40.9/1040
F	Height of well for temp. sensor	in/mm	21.9/557	22.0/560	23.4/595
G	Height inspection flange	in/mm	14.4/365	14.4/367	15.9/405
H	Height cold water feed	in/mm	2.9/73	2.6/65	2.0/50
I	Height solar cold feed	in/mm	11.0/280	11.1/282	10.9/277
J	Height solar hot return	in/mm	34.0/865	34.1/867	33.9/862
K	Height heater hot boiler return	in/mm	38.4/975	44.5/1130	42.9/1089
L	Height circulation port	in/mm	52.7/1339	63.0/1600	57.2/1453
M	Height cold boiler feed	in/mm	52.7/1339	63.0/1600	57.2/1453
N	Overall height	in/mm	67.08/1704	73.74/1873	69.29/1760
O	Width without thermal insulation	in/mm	21.65/550	23.62/600	29.52/750
P	Width with thermal insulation	in/mm	27.55/700	29.52/750	36.22/920





1 Sacrificial anode indicator
2 Thermometer
3 Well for temperature sensor (boiler)
4 Well for temperature sensor (solar)
5 Clean-out port
6 Foam insulation
7 Cold water inlet
8 Heat exchanger ports lower loop (solar)
9 Lower exchanger coil (solar)
10 Heat exchanger ports upper loop (boiler)
11 Upper exchanger coil (boiler)
12 Hot water outlet

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 2.95 in. (70 mm.) thick to R-21 with an ABS outer casing cover. Standby heat loss shall be between 1.9 and 2.9 kWh (6,500-10,000 BTU) per 24 hours. Tank shall be delivered wrapped in plastic on a one-way pallet. Tank shall have been pressure tested to 217 PSA/15 bar and the maximum operating pressure shall be 150 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, three immersion sleeves for housing of temperature probe and thermometer, circulation socket, inspection/cleaning port with cover.

Engineer/Architect _____ Date _____

Job Name/Customer _____ Location _____

Contractor _____ Representative _____

Qty Volume

SBB model _____ _____ _____