

SBB Indirectly Fired Water Heater Tanks

Engineer/Architect: _____ **Date:** _____

Job Name/Customer: _____ **Phone:** _____

Location: _____ **Date Required:** _____

Contractor: _____ **Phone:** _____

Water Heater Specifications

Item No. Quantity Volume

Model # SBB _____

Specifications

	SBB 300 Plus	SBB 400 Plus	SBB 600 Plus
Item Number	187873	187874	187875
Contents			
Storage Capacity	80.6 gal (305 l)	108.6 gal (411 l)	162.9 gal (617 l)
Volume of heat exchanger, top	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)	3.5 gal (13.2 l)
Pressure			
Working pressure	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)
Max. pressure of upper loop	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)
Max temperature of upper loop	266 °F (130 °C)	266 °F (130 °C)	266 °F (130 °C)
Heat exchanger			
Surface area heat exchanger top	1,705 sq. in (1.1 m ²)	2,015 sq. in (1.3 m ²)	2,945 sq. in (1.9 m ²)
Surface area heat exchanger bottom	2,325 sq. in (1.5 m ²)	2,635 sq. in (1.7 m ²)	3,875 sq. in (2.5 m ²)
Output rating heat exchanger top	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)	242,000 Btu/hr (71 kW)
Recovery rate (maximum input)	180 gal/hr (681 l/hr)	186 gal/hr (704 l/hr)	224 gal/hr (848 l/hr)
Weights			
Tank weight empty	339 lb (154 kg)	412 lb (187 kg)	544 lb (247 kg)
Tank weight full	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)	10000 Btu (2.9 kWh)
Cold/hot water connection	1" copper pipe via adapter	1" copper pipe via adapter	1" copper pipe via adapter
Dimensions			
Height with insulation	66 3/32" (1,679 mm)	72 11/16" (1,848 mm)	68 5/16" (1,735 mm)
Width with insulation	27 9/16" (700 mm)	29 1/2" (750 mm)	36 1/4" (920 mm) *
Width of insulation	3" (75 mm)	3" (75 mm)	3 11/32" (85 mm) *

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

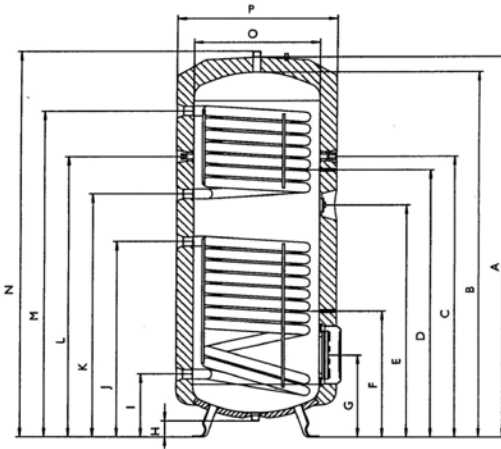


SBB tanks are ETL certified in US and Canada to IAS U.S. Requirements for Indirect Fired Water Heaters For Use With External Heat Source. No 1-91, Dated June 6, 1992



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

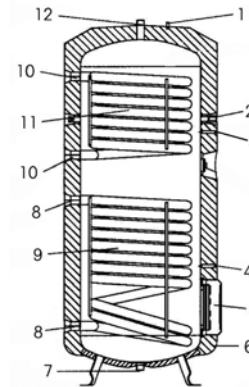
Dimensions



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



Left to right:
SBB 300
SBB 400
SBB 600 Plus



- 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

Warranty

Subject to the terms and conditions set forth in this limited lifetime warranty, Stiebel Eltron, Inc. (the "Manufacturer") hereby warrants to the original purchaser (the "Owner") that each storage tank (the "Tank") shall be free from defects in the Manufacturer's materials or workmanship for a period of:

1. (10 Years) from the date of purchase for single, two-, and three-family residential installations
2. (5 Years) from the date of purchase for all other installations
3. (Excluded) sacrificial or electronic anode

As Owner's sole and exclusive remedy for the above warranty, Manufacturer shall, at the Manufacturer's discretion, either factory repair or replace the defective Tank with a replacement unit or part(s) with comparable operating features. Manufacturer's maximum liability under all circumstances shall be limited to the Owner's purchase price for the Tank.

This limited warranty shall be the exclusive warranty made by the Manufacturer and is made in lieu of all other warranties, express or implied, whether written or oral, including, but not limited to warranties of merchantability and fitness for a particular purpose. Manufacturer shall not be liable for incidental, consequential or contingent damages or expenses arising directly or indirectly from any defect in the Tank or the use of the Tank. Manufacturer shall not be liable for any water damage or other damage to property of Owner arising, directly

or indirectly, from any defect in the Tank or the use of the Tank. Manufacturer alone is authorized to make all warranties on Manufacturer's behalf and no statement, warranty or guarantee made by any other party shall be binding on Manufacturer.

Manufacturer shall not be liable for any damage whatsoever relating to or caused by:

1. any misuse or neglect of the Tank, any accident to the Tank, any alteration of the Tank, or any other unintended use;
2. acts of God and circumstances over which Manufacturer has no control;
3. installation of the Tank other than as directed by Manufacturer and other than in accordance with applicable building codes;
4. improper installation and/or improper materials used by any installer and not relating to defects in parts or workmanship of Manufacturer;
5. failure to maintain the Tank or to operate the Tank in accordance with the Manufacturer's specifications;
6. failed components not originally installed by the Manufacturer as a part of the unit at the time of sale;
7. exposure to freezing conditions;
8. exposure to harmful chemicals, contaminated water, corrosive fluids or atmosphere, liquids harmful to steel tubing including improperly applied or maintained heat transfer fluids.

Warranty (Cont.)

9. utilizing the tank as an open loop heat exchanger, e.g., do not use in drainback systems or continually pass fresh potable water through the units internal heat exchanger.
10. installing the Tank in a closed system without a properly sized and installed thermal expansion tank;
11. operating the Tank without the factory installed sacrificial anode;
12. operating the Tank under fluctuating or excessive water pressure or in the event the Tank is supplied with non-potable water for any duration;
13. operating the Tank when it is empty or partially full of potable water;
14. Installing and operating the Tank outdoors;
15. operating the Tank at temperatures higher than recommended by Manufacturer;
16. (SB E models) replacing the electric heating element with a unit not manufactured by Stiebel Eltron or greater in power than the originally installed element;
17. (SB E models) connecting the Tank to improper voltage or service;

Should owner wish to return the Tank to manufacturer for repair or replacement under this warranty, Owner must first secure written authorization from Manufacturer. Owner shall

demonstrate proof of purchase, including a purchase date, and shall be responsible for all removal and transportation costs. If Owner cannot demonstrate a purchase date this warranty shall be limited to the period beginning from the date of manufacture stamped on the Tank. Manufacturer reserves the right to deny warranty coverage upon Manufacturer's examination of the Tank. This warranty is restricted to the Owner and cannot be assigned.

Some States and Provinces do not allow the exclusion or limitation of certain warranties. In such cases, the limitations set forth herein may not apply to the Owner. In such cases this warranty shall be limited to the shortest period and lowest damage amounts allowed by law. This warranty gives you specific legal rights and you may also have other rights which vary from State to State or Province to Province.

Owner shall be responsible for all labor and other charges incurred in the removal or repair of the Tank in the field. Please also note that the Tank must be installed in such a manner that if any leak does occur, the flow of water from any leak will not damage the area in which it is installed.