STIEB

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Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 05/11/15

SOLAR STORAGE TANKS

Solar Tanks

FOR SOLAR, GEOTHERMAL
OR HYDRONIC APPLICATIONS

Engineered in Germany

ISO 9001 CERTIFIED

SRCC OG-300 CERTIFIED

Intertek

- » HEAVY GAUGE STEEL WITH PORCELAIN ENAMEL COATING
- » SUPERB QUALITY RESULTS IN LONG SERVICE LIFE BACKED BY A 10-YEAR WARRANTY
- » SACRIFICIAL ANODE ROD
- » UP TO 3″ R-21 URETHANE FOAM INSULATION FOR LOW STANDBY HEAT LOSS
- » LARGE CLEAN OUT PORT FOR EASE OF MAINTENANCE

800.582.8423

www.stiebel-eltron-usa.com

Highly Efficient Solar Storage Tanks

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Single Heat Exchanger Models

Technical Data

DHW Tank Model	SB 150 S	SB 200 S	SBB 300 S	SBB 400 S
Part number	221220	221221	221219	221222
CONTENTS				
Storage capacity	39.0 gal / 147.63 l	52.0 gal / 196.84 l	80.6 gal / 305 l	108.6 gal / 411 l
Volume of heat exchanger, upper	NA	NA	NA	NA
Volume of heat exchanger, lower	1.9 gal / 7.2 l	2.7 gal / 10.2 l	2.7 gal / 10.2 l	3.0 gal / 11.3 l
PRESSURE				
Working pressure	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
Max. pressure of boiler loop	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar
TEMPERATURE				
Max. temp. upper loop	NA	NA	NA	NA
Max. temp. lower loop	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C
HEAT EXCHANGER				
Surface area of heat exchanger, upper	NA	NA	NA	NA
Surface area of heat exchanger, lower	1742 in^2 / 1.1 m^2	2059 in^2 / 1.3 m^2	2325 in^2 / 1.5 m^2	2635 in^2 / 1.7 m^2
WEIGHTS				
Tank weight empty	190 lb / 86.18 kg	226 lb / 102.5 kg	292 lb / 133 kg	371 lb / 169 kg
Tank weight full	523 lb / 237.2 kg	658 lb / 298.4 kg	988 lb / 448 kg	1304 lb / 591 kg
OTHER				
Standby losses in 24 hours	4434 BTU / 1.3 kWh	6500 BTU / 1.9 kWh	6500 BTU / 1.9 kWh	7500 BTU / 2.2 kWh
Cold/hot water connection	3/4″ male NPT	3/4″ male NPT	1″ male BST, with sweat adaptor to ¾″ copper pipe	
DIMENSIONS				
Height with insulation	50.5″ / 1283 mm	62.75″ / 1594 mm	66.1″ / 1679 mm	72.7″ / 1848 mm
Width with insulation	20.5″ / 521 mm	20.5″ / 521 mm	27.6″ / 700 mm	29.6″ / 750 mm
Thickness of insulation	1.6″ / 40 mm	1.6″ / 40 mm	3.0″ / 75 mm	3.0″ / 75 mm

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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

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Dual Heat Exchanger Models

DHW Tank Model	SBB 300 Plus	SBB 400 Plus	SBB 600 Plus
Part 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, upper	1.9 gal / 7.3 l	2.2 gal / 8.2 l	2.5 gal / 9.6 l
Volume of heat exchanger, lower	2.7 gal / 10.2 l	3.0 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 boiler loop	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar
TEMPERATURE			
Max. temp. upper loop	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C
Max. temp. lower loop	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C
HEAT EXCHANGER			
Surface area of heat exchanger, upper	1705 in^2 / 1.1 m^2	2015 in^2 / 1.3 m^2	2945 in^2 / 1.9 m^2
Surface area of heat exchanger, lower	2325 in^2 / 1.5 m^2	2635 in^2 / 1.7 m^2	3875 in^2 / 2.5 m^2
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 / 2.2 kWh
Cold/hot water connection	1″ male BST, with sweat adaptor to ¾″ copper pipe		
DIMENSIONS			
Height with insulation	66.1″ / 1679 mm	72.7″ / 1848 mm	68.3″ / 1735 mm
Width with insulation	27.55″ / 700 mm	29.53″ / 750 mm	36.22″ / 920 mm [1]
Thickness of insulation	3.0″ / 75 mm	3.0″ / 75 mm	3.35″ / 85 mm [1]

[1] Insulation is partially removable to reduce width to 31.5″ / 800 mm for clearance purposes

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SB 150 S, SB 200 S

SBB 300 S, SBB 400 S

SBB 300 Plus, SBB 400 Plus, SBB 600

ENGINEERING & MANUFACTURING EXCELLENCE

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All Stiebel Eltron SB/SBB series water heaters are made in our factories in Germany and Slovakia. They can be used in residential or commercial installations as indirectly fired domestic hot water storage tanks in conjunction with any type of boiler, geothermal, or solar application.

The vessels and heat exchangers in SB/SBB tanks are made from heavy gauge steel. All surfaces in contact with domestic hot water receive a thick porcelain enamel coating after shot-peening to clean the steel surface. In addition, vessel exteriors receive a light porcelain coating. Up to three inches of urethane foam insulation ensures that hot water stays hot, and standby heat loss is minimized. All SB/SBB tanks come with heavy-duty sacrificial anodes, with visible anode wear indicators on SBB tanks. SBB tanks are also fitted with an extra-large clean-out port for ease of maintenance.

Stiebel Eltron SB/SBB series indirect water heaters are equipped with either one or two large-bore heat exchangers, designed to maximize heat transfer. Single heat exchanger models can be used for solar applications with an external backup heater. Dual heat exchanger models are typically used in solar applications by connecting the lower coil to the solar array, and the upper coil connected to any type of boiler for backup heat input or as a takeoff for a radiant heating loop.

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Stiebel Eltron Family of Energy Saving Products

EFFICIENT TANKLESS WATER HEATERS

Whole House Tankless Electric

Point-of-use Tankless Electric

RENEWABLE ENERGY

SOL 27 Premium Flat Plate Solar Collector

Complete Solar Components

Pump Stations, Racks, Controllers

Accelera® 300 Heat Pump Water Heater

#1 Energy Star rated air-source heat pump water heater

Stiebel Eltron has been a world leader in the development of advanced water heating technology for almost 90 years. Our pursuit of engineering excellence and high-quality manufacturing results in products fulfilling the highest expectations of performance and reliability. They are...**Simply the Best.**

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