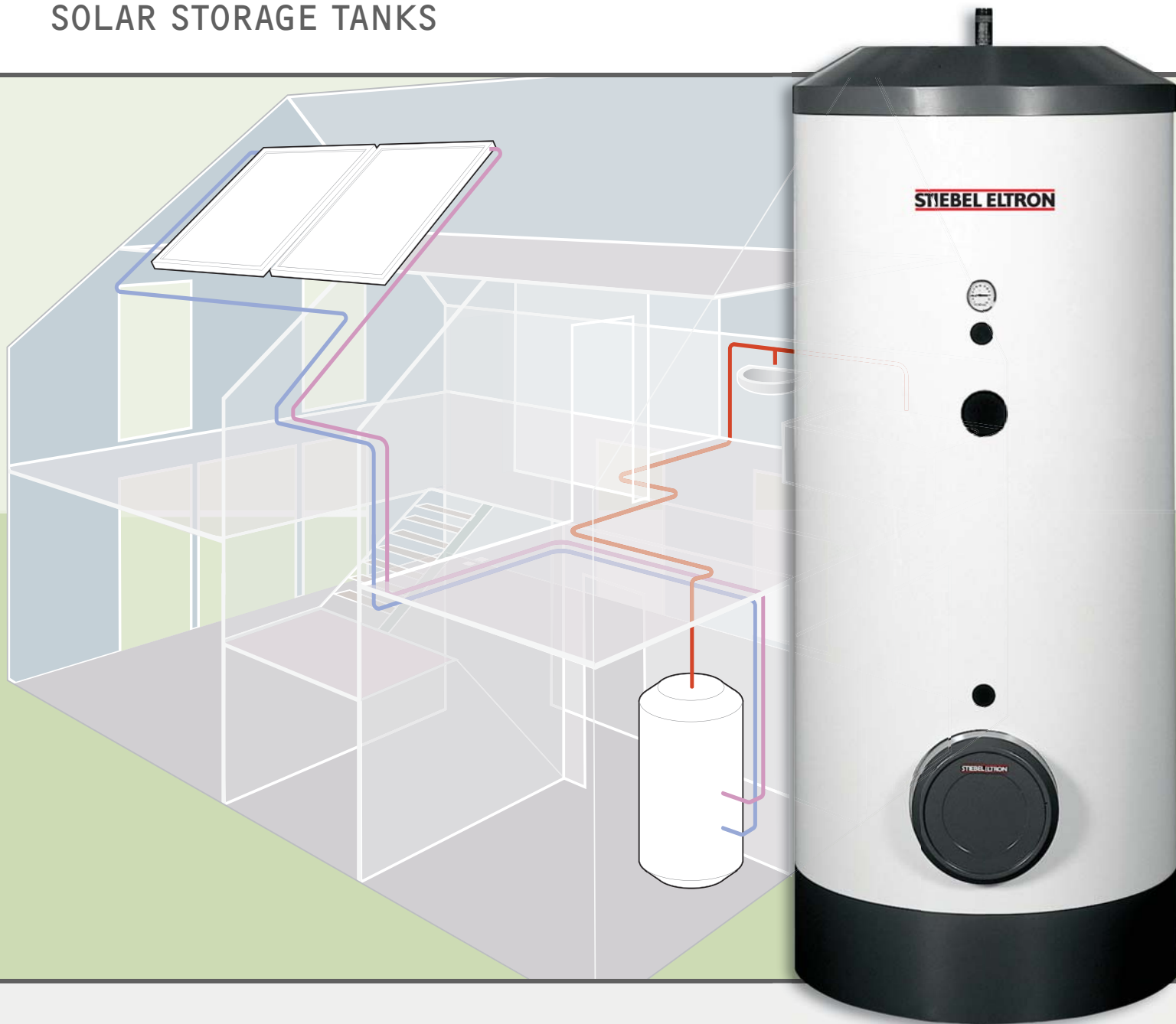


# STIEBEL ELTRON

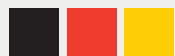
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# Highly Efficient Solar Storage Tanks

## Single Heat Exchanger Models



### Technical Data

DHW Tank Model	SB 150 S	SB 200 S	SBB 300 S	SBB 400 S
<b>Part number</b>	221220	221221	221219	221222
<b>CONTENTS</b>				
<b>Storage capacity</b>	39.0 gal / 147.63 l	52.0 gal / 196.84 l	80.6 gal / 305 l	108.6 gal / 411 l
<b>Volume of heat exchanger, upper</b>	NA	NA	NA	NA
<b>Volume of heat exchanger, lower</b>	1.9 gal / 7.2 l	2.7 gal / 10.2 l	2.7 gal / 10.2 l	3.0 gal / 11.3 l
<b>PRESSURE</b>				
<b>Working pressure</b>	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar
<b>Tested to pressure</b>	217 psi / 15 bar	217 psi / 15 bar	217 psi / 15 bar	217 psi / 15 bar
<b>Max. pressure of boiler loop</b>	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar
<b>TEMPERATURE</b>				
<b>Max. temp. upper loop</b>	NA	NA	NA	NA
<b>Max. temp. lower loop</b>	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C
<b>HEAT EXCHANGER</b>				
<b>Surface area of heat exchanger, upper</b>	NA	NA	NA	NA
<b>Surface area of heat exchanger, lower</b>	1742 in <sup>2</sup> / 1.1 m <sup>2</sup>	2059 in <sup>2</sup> / 1.3 m <sup>2</sup>	2325 in <sup>2</sup> / 1.5 m <sup>2</sup>	2635 in <sup>2</sup> / 1.7 m <sup>2</sup>
<b>WEIGHTS</b>				
<b>Tank weight empty</b>	190 lb / 86.18 kg	226 lb / 102.5 kg	292 lb / 133 kg	371 lb / 169 kg
<b>Tank weight full</b>	523 lb / 237.2 kg	658 lb / 298.4 kg	988 lb / 448 kg	1304 lb / 591 kg
<b>OTHER</b>				
<b>Standby losses in 24 hours</b>	4434 BTU / 1.3 kWh	6500 BTU / 1.9 kWh	6500 BTU / 1.9 kWh	7500 BTU / 2.2 kWh
<b>Cold/hot water connection</b>	3/4" male NPT	3/4" male NPT	1" male BST, with sweat adaptor to 3/4" copper pipe	
<b>DIMENSIONS</b>				
<b>Height with insulation</b>	50.5" / 1283 mm	62.75" / 1594 mm	66.1" / 1679 mm	72.7" / 1848 mm
<b>Width with insulation</b>	20.5" / 521 mm	20.5" / 521 mm	27.6" / 700 mm	29.6" / 750 mm
<b>Thickness of insulation</b>	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

# Highly Efficient Solar Storage Tanks

## Dual Heat Exchanger Models

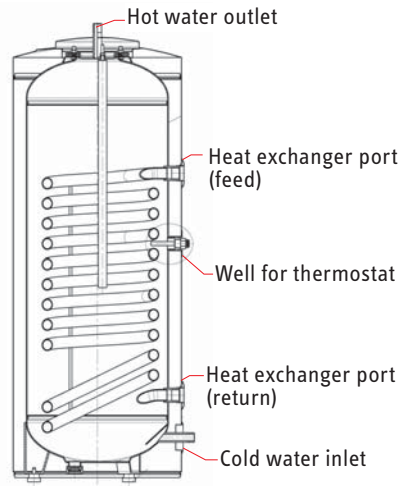


DHW Tank Model	SBB 300 Plus	SBB 400 Plus	SBB 600 Plus
<b>Part number</b>	187873	187874	187875
<b>CONTENTS</b>			
<b>Storage capacity</b>	80.6 gal / 305 l	108.6 gal / 411 l	162.9 gal / 617 l
<b>Volume of heat exchanger, upper</b>	1.9 gal / 7.3 l	2.2 gal / 8.2 l	2.5 gal / 9.6 l
<b>Volume of heat exchanger, lower</b>	2.7 gal / 10.2 l	3.0 gal / 11.3 l	3.5 gal / 13.2 l
<b>PRESSURE</b>			
<b>Working pressure</b>	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar
<b>Tested to pressure</b>	217 psi / 15 bar	217 psi / 15 bar	217 psi / 15 bar
<b>Max. pressure of boiler loop</b>	150 psi / 10 bar	150 psi / 10 bar	150 psi / 10 bar
<b>TEMPERATURE</b>			
<b>Max. temp. upper loop</b>	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C
<b>Max. temp. lower loop</b>	266 °F / 130 °C	266 °F / 130 °C	266 °F / 130 °C
<b>HEAT EXCHANGER</b>			
<b>Surface area of heat exchanger, upper</b>	1705 in <sup>2</sup> / 1.1 m <sup>2</sup>	2015 in <sup>2</sup> / 1.3 m <sup>2</sup>	2945 in <sup>2</sup> / 1.9 m <sup>2</sup>
<b>Surface area of heat exchanger, lower</b>	2325 in <sup>2</sup> / 1.5 m <sup>2</sup>	2635 in <sup>2</sup> / 1.7 m <sup>2</sup>	3875 in <sup>2</sup> / 2.5 m <sup>2</sup>
<b>WEIGHTS</b>			
<b>Tank weight empty</b>	339 lb / 154 kg	412 lb / 187 kg	544 lb / 247 kg
<b>Tank weight full</b>	1051 lb / 477 kg	1362 lb / 618 kg	1955 lb / 887 kg
<b>OTHER</b>			
<b>Standby losses in 24 hours</b>	6500 BTU / 1.9 kWh	7500 BTU / 2.2 kWh	10000 BTU / 2.2 kWh
<b>Cold/hot water connection</b>	1" male BST, with sweat adaptor to 3/4" copper pipe		
<b>DIMENSIONS</b>			
<b>Height with insulation</b>	66.1" / 1679 mm	72.7" / 1848 mm	68.3" / 1735 mm
<b>Width with insulation</b>	27.55" / 700 mm	29.53" / 750 mm	36.22" / 920 mm <sup>1</sup>
<b>Thickness of insulation</b>	3.0" / 75 mm	3.0" / 75 mm	3.35" / 85 mm <sup>1</sup>

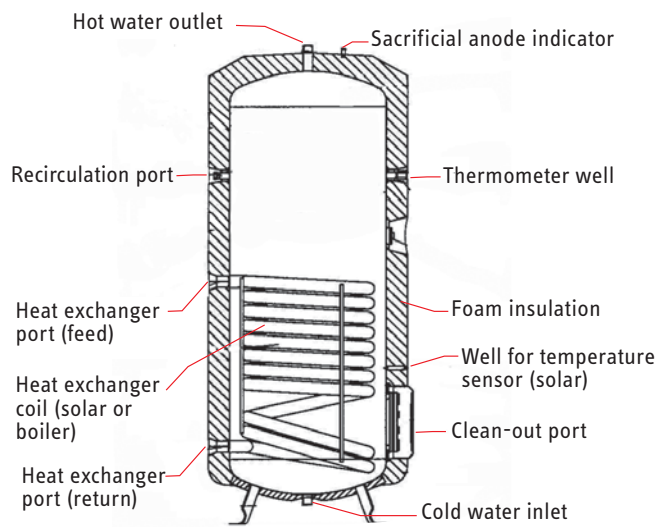
<sup>1</sup> Insulation is partially removable to reduce width to 31.5" / 800 mm for clearance purposes

# Highly Efficient Solar Storage Tanks

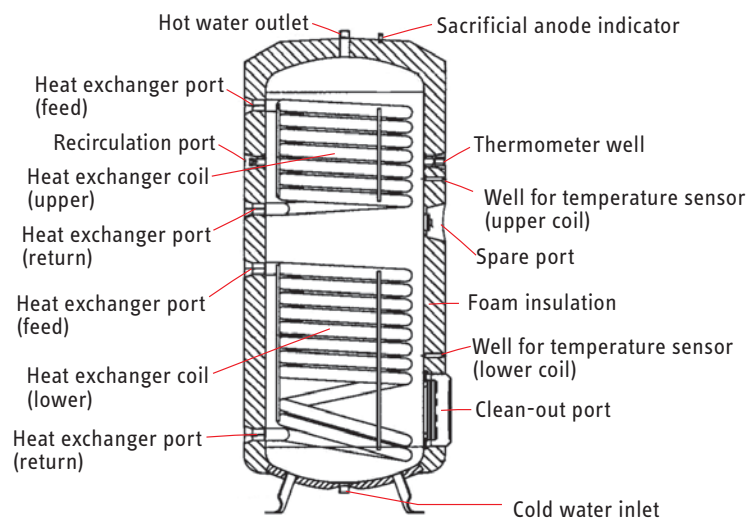
## SB 150 S, SB 200 S



## SBB 300 S, SBB 400 S



## SBB 300 Plus, SBB 400 Plus, SBB 600



# ENGINEERING & MANUFACTURING EXCELLENCE

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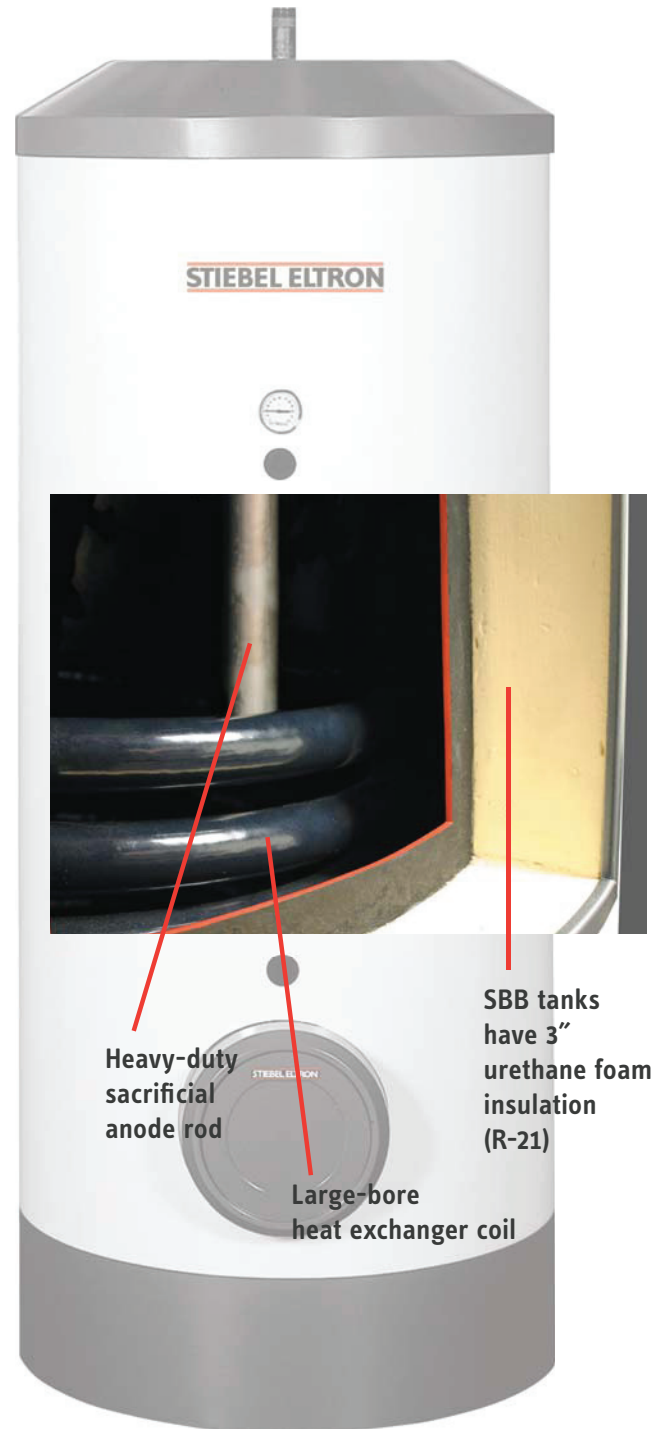
#1 Energy Star rated air-source heat pump water heater



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