Indirect & Solar Storage Tanks for Domestic Hot Water

DHW Tanks
FOR ALL SOLAR, GEOTHERMAL OR HYDRONIC APPLICATIONS

› Heavy Gauge Steel With Porcelain Enamel Coating
› Superb Quality Results In Long Service Life
  Backed By A Lifetime 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
#### Single Heat Exchanger

- **SBB 400 S**
  - **Heater outlet**
  - **Thermometer well**
  - **Foam insulation**
  - **Clean-out port**

- **SBB 300 Plus, SBB 400 Plus, SBB 600 Plus**
  - **Sacrificial anode indicator**
  - **Thermometer well**
  - **Foam insulation**
  - **Clean-out port**

#### Dual Heat Exchanger

- **SBB 400 S**
  - **Heater outlet**
  - **Thermometer well**
  - **Foam insulation**
  - **Clean-out port**

#### Performance Data

- **SBB 400 S**
  - **Part Number**
    - 221222

- **SBB 300 Plus, SBB 400 Plus, SBB 600 Plus**
  - **Part number**
    - 221222

- **Storage capacity**
  - SBB 400 S: 167 gal / 630 l

- **Flow Rate**
  - Single Heat: 7500 BTU / 2.2 kWh
  - Dual Heat: 150,168 BTU / 44 kW

- **Max. temp. lower loop**: 266 °F / 130 °C

- **Max. temp. upper loop**: 266 °F / 130 °C

- **Max. pressure of boiler loop**: 150 psi / 10 bar

- **Working pressure**: 150 psi / 10 bar

- **Lower heat exchanger volume**: 1.9 gal / 7.3 l

- **Upper heat exchanger volume**: 2.2 gal / 8.2 l

- **tank weight full**: 1051 lb / 477 kg

- **DHW Tank Model SBB 300 Plus SBB 400 Plus SBB 600 Plus**
  - **Output**
    - SBB 400 S: 111,680 BTU / 33 kW
    - SBB 300 Plus: 128,768 BTU / 37.7 kW
    - SBB 400 Plus: 150,168 BTU / 44 kW
    - SBB 600 Plus: 182,399 BTU / 53.5 kW

- **Flow Rate**
  - Single Heat: 212.4 gal/hr / 804 l/hr
  - Dual Heat: 285.6 gal/hr / 1,081 l/hr

- **Max. pressure of boiler loop**: 150 psi / 10 bar

- **Working pressure**: 150 psi / 10 bar

- **Lower heat exchanger volume**: 1.9 gal / 7.3 l

- **Upper heat exchanger volume**: 2.2 gal / 8.2 l

- **tank weight full**: 1362 lb / 618 kg

- **Part number**
  - 221222

- **Storage capacity**
  - SBB 400 S: 167 gal / 630 l

- **Flow Rate**
  - Single Heat: 7500 BTU / 2.2 kWh

- **Max. temp. lower loop**: 266 °F / 130 °C

- **Max. temp. upper loop**: 266 °F / 130 °C

- **Max. pressure of boiler loop**: 150 psi / 10 bar

- **Working pressure**: 150 psi / 10 bar

- **Lower heat exchanger volume**: 1.9 gal / 7.3 l

- **Upper heat exchanger volume**: 2.2 gal / 8.2 l

- **tank weight full**: 1955 lb / 887 kg

### Engineering & Manufacturing Excellence

**Over 90 Years of German Technology**

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

The vessels and heat exchangers in SBB/SB-E 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 SBB/SB-E tanks come with heavy-duty sacrificial anodes and visible anode wear indicators. SBB/SB-E tanks are also fitted with an extra-large clean-out port for ease of maintenance.

Stiebel Eltron SBB series tanks are equipped with either one or two large-bore heat exchangers, designed to maximize heat transfer. For solar thermal applications, an SB-E tank can be used with an external backup heater, or an SB-E tank with its integral electric element can be used. Dual heat exchanger models are typically used in solar thermal applications by connecting the lower coil to the collector array, and the upper coil connected to any type of boiler for backup heat input or as a takeoff for a radiant heating loop.

**Stiebel Eltron SBB and SB-E tanks and heat exchangers are warranted against material defects for life. All other parts, excluding the sacrificial anode are warranted for 10 years.**

**LIMITED LIFETIME WARRANTY**

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New!
SB-E Tanks

Single Heat Exchanger with Electric Element

<table>
<thead>
<tr>
<th>DHW Tank Model</th>
<th>SB 300 E</th>
<th>SB 400 E</th>
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</thead>
<tbody>
<tr>
<td>Part number</td>
<td>234110</td>
<td>234111</td>
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CONTENTS

- Storage capacity
- Heat exchanger volume
- Surface area of heat exchanger
- Working pressure
- Max. pressure of boiler loop

HEATING ELEMENT

- Heating element voltage
- Heating capacity
- Rated current
- Required circuit breaker
- Heating element
- Temperature control
- Set range of thermostat

OTHER

- Cold/hot water connection
- Heat exchanger & auxiliary connections

PERFORMANCE DATA

- Standby losses in 24 hours
- Pressure drop at 4.4 gpm
- Heat exchanger power rating
- Recovery rate (maximum input)
- Recovery rate (electric element only)

WEIGHTS & DIMENSIONS

- Tank weight empty
- Tank weight full
- Height
- Diameter
- Insulation thickness
- Diameter without insulation

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Tested and Certified by Water Quality Association against NSF/ANSI 372 for lead free compliance.
1924
Sometimes a “little thing” leads to a whole lot more

Dr. Theodor Stiebel designed the first coil immersion heater and founded “ELTRON Dr. Theodor Stiebel” in 1924 in a small workshop on Reichenberger Strasse in Berlin, Germany.

Since then, Stiebel Eltron has manufactured 20 million tankless electric water heaters, holds hundreds of patents, has won more than fifty design awards, and continues to stay at the forefront of water heating technology.

2015
Continuing to lead innovation in energy efficiency

One of the first manufacturers to develop and manufacture heat pumps and solar thermal water heating, Stiebel Eltron has been a technological leader in renewable energy since 1976.

Today Stiebel Eltron is the heat pump market leader in Germany, and continues creating innovative, energy efficient products for the homes of the future.

Stiebel Eltron Family of Energy Saving Water Heating Products

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