



Tankless Water Heating Solutions

Residential and Commercial Applications



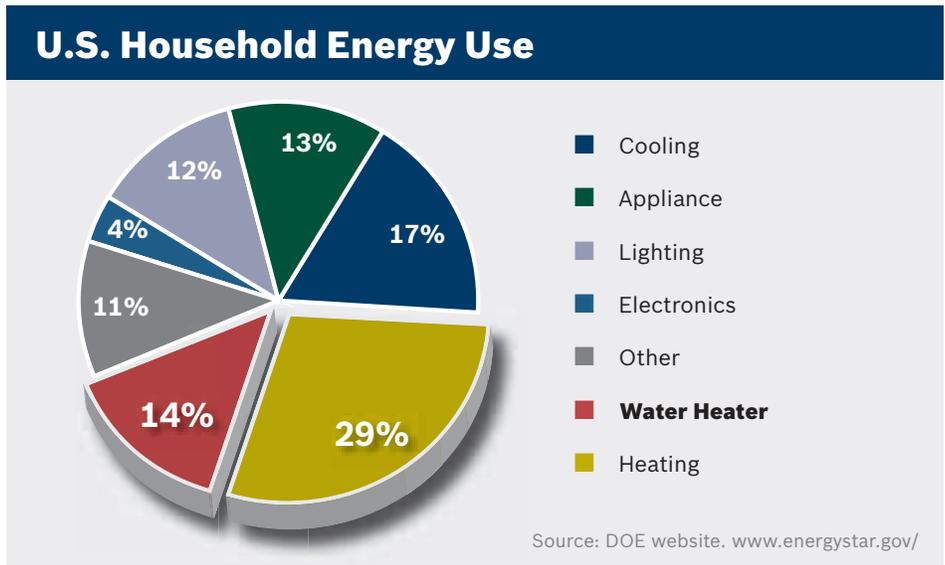
BOSCH

Invented for life



The Benefits of Going Tankless

The US Dept of Energy says that direct-fired residential tank storage heaters are among the highest energy-consuming appliances in the home. Only heating and air conditioning systems consume more energy. If your home is utilizing a traditional tank style water heater that is more than eight years old, then it's time to upgrade to a modern system with advanced design and engineering to save space in your home, reduce your utility bills and conserve the Earth's resources.



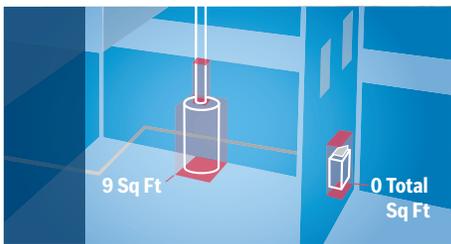
Endless Hot Water On-Demand

Bosch tankless water heaters work “on-demand” to produce hot water when needed, for as long as needed. There is no storage tank, so you never have to worry about running out of hot water or waiting for the tank to recover, even during peak use.



Saves Up to 50% on Water Heating Costs

A tank style hot water heater keeps water hot 24 hours a day, whether it is needed or not. Bosch tankless water heaters produce hot water only when needed, reducing needless energy consumption and therefore cutting water heating costs by up to 50%.



Space Saving Technology

A typical tank water heater requires up to 9 sq ft of space. If the price per sq ft of real estate in your area is \$150, that's almost \$1350 worth of space to be re-purposed. Tankless water heaters are compact and can be installed virtually anywhere – even outdoors.



Reduces Greenhouse Gases

The EPA identifies NOx as a polluting gas contributing to acid rain, respiratory problems, and climate change. Bosch's condensing tankless models use an exclusive pre-mix combustion process which achieves up to 98% thermal efficiency and meets the 2012 SCAQMD low NOx emission requirements (14ng/j).

An Inside Look at Tankless Advantages

Bosch Greentherm Condensing Gas Tankless Water Heater

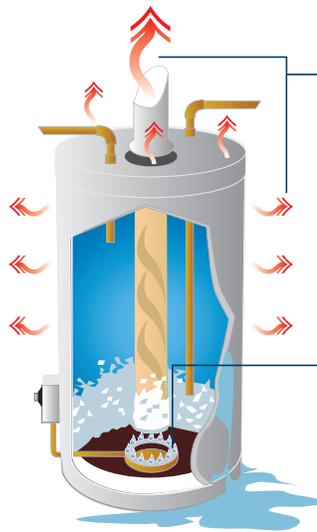
Features

- ▶ Greater than 94% thermal efficiency
- ▶ Superior energy factor up to 0.95
- ▶ Up to 184°F temperature (commercial application)
- ▶ Altitude tested to 8,000 ft
- ▶ Many venting options



- ▶ Durable heat exchanger design – complete water path is made of copper pipes
- ▶ Patented, fully modulating burner design – generates endless hot water
- ▶ Built-in digital control panel
- ▶ Active bypass for temperature stability (not visible behind control panel)
- ▶ External access to inlet water filter for easy maintenance

Traditional Gas Direct Fired Tank Water Heater



- ▶ Stored water loses on average, 20% of its heat up the flue and through sidewalls
- ▶ Cycles on and off 24 hours a day, seven days a week
- ▶ Mineral build-up leads to tank leaks and greater inefficiency
- ▶ Small burner can't keep up when demand is high

| Key Benefits | Bosch Therm and Greentherm Gas Tankless Water Heater | Traditional Gas Storage Tank Water Heater |
|--|--|--|
| Provides endless hot water on demand | ✓ | ✗ |
| Compact, easy access with 100% serviceable parts | ✓ | ✗ Tanks are usually replaced |
| Built-in digital control panel with precise 2°F temperature increments | ✓ | ✗ High to low setting |
| Maintains efficiency over the life of the appliance | ✓ | ✗ Sediment build-up |
| Fully modulating “vertical” burner that works only on demand | ✓ A Bosch exclusive | ✗ |
| Heat loss up the chimney | As little as 2% Bosch dual heat exchangers minimize heat loss for up to 98% efficiency | In excess of 22% Heat rises and energy is wasted up the flue |
| Average life expectancy | 20+ years | 6-12 years |

Why Bosch is Your Best Choice



Bosch is a Name You Know and Trust

Everyone knows and respects Bosch for its unsurpassed commitment to quality, innovation and value within a broad range of products including: automotive parts, power tools, home appliances, boilers, tankless water heaters, solar and geothermal heat pumps. Bosch is highly recommended by professional contractors and is a brand that loyal customers refer to their friends and family.



Your Single Source for Hot Water Systems

Whether you are replacing a worn out tank water heater, renovating a master bath, or building a new home, you can trust Bosch for a high-quality water heating solution that's a perfect match for your needs. With over 125 years of engineering experience, you can buy with confidence knowing that Bosch products are designed to work together seamlessly to allow professional contractors the ability to install the most efficient, customized system for your needs.



Bosch Exclusive Safety and Precision Controls

Bosch is the only major tankless water heater manufacturer to offer a built-in digital control panel with the ability to adjust water output temperatures in precise 2°F increments across the entire temperature range, an important safety feature for homes with children and elderly family members. This feature is available on the Therm and Greentherm models.

Even Flame Pattern

Bosch Tankless Burner Design

Minimum Flame Medium Flame High Flame

Other Tankless Burner Design

Bosch Exclusive Design for Scale Prevention

Bosch's patented heat exchangers offer dual-fan and fully modulating vertical burner design to achieve an "even" flame pattern, preventing hot-spots and corrosion common with other tankless water heater burner designs. Bosch's proprietary built-in turbulators help to prevent scale build-up that can reduce operating efficiency, allowing Bosch tankless water heater to work efficiently and last longer.



Peace-of-Mind Warranties – Best in Industry

Bosch products are also renowned for their reliability and longevity. All products are built using top-grade materials and tested to meet the highest standards for performance and sustainability, which is why Bosch can back tankless products with the most generous warranties in the industry. See complete warranty details at www.boschheatingandcooling.com.

Smart Bosch Technology Delivers Up to 98% Efficiency When You Need it Most

Bosch offers the most efficient condensing tankless water heaters on the market – up to 98% efficient – which are designed to offer maximum efficiency during high demand time periods in the average North American home. Competing products reach their optimal efficiency during off-peak usage times when demand is typically low. Bosch Therm models offer significant savings on utility bills through clean, efficient use when homeowners need it most.



Bosch Tankless Water Heating Solutions

Bosch gas tankless condensing and non-condensing water heaters offer efficiency, versatile fuel sources (natural or liquid propane gas), multiple installation and venting options, and long service life. Residential models offer limited 15-year heat exchanger warranty[§]. Therm and Greentherm models are available for indoor or outdoor installation. With high-efficiencies, the Therm and Greentherm models are Low NOx compliant and ENERGY STAR[®] rated.*



Greentherm Condensing Gas Tankless Water Heaters



- ▶ Greater than 94% thermal efficiency
- ▶ Active bypass for superior temperature stability
- ▶ Vents with PVC or Polypropylene
- ▶ Concentric up-and-out vent option requires only one five-inch penetration through wall
- ▶ May be common vented with up to four units in commercial applications



Therm Condensing Gas Tankless Water Heaters



- ▶ Up to 98% thermal efficiency
- ▶ Hot water output 100-140°F, up to 184°F with high-temp kit*
- ▶ Altitude tested to 8,000 ft
- ▶ Multiple venting options
- ▶ 15-year limited lifetime heat exchanger warranty on residential applications[§]



Therm Non-Condensing Gas Tankless Water Heaters

- ▶ Up to 83% thermal efficiency
- ▶ Available with Piezo ignition – requires no electricity (520 PN & 330 PN)
- ▶ Multiple vent configurations
- ▶ Vent with galvanized B-vent
- ▶ Available in outdoor version*



Bosch Therm and Greentherm Models

Up to 24 Bosch Therm and Greentherm models can be linked together to achieve higher flow rates than with single units. For example, cascading 24 C 1210ESC units delivers an incredible 290 gallons per minute.

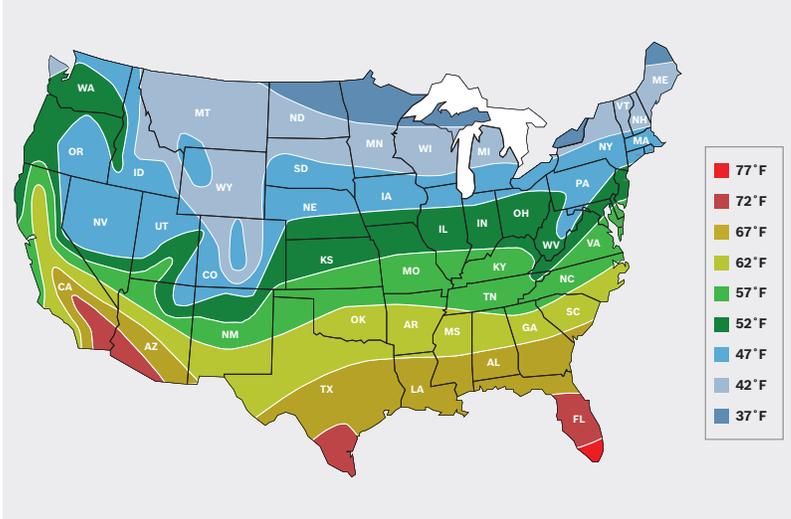
- ▶ Cascade up to 24 units to satisfy jobs of all sizes
- ▶ Cascading with electric mini-tank for recirculation to manage long pipe runs
- ▶ Advanced tank loading with multi-pump high-output system
- ▶ Commercial kitchen with high demands
- ▶ Inline with solar thermal storage tank

* Consult chart on page 6 for applicable models

§ For complete warranty details see www.boschheatingandcooling.com

Product Selection Guide

Groundwater Temperatures



Example: A homeowner in Richmond, Virginia is considering the C 1050 ES. The groundwater temperature in Richmond is 57°F, which means this family can run up to two showers and one sink faucet at the same time.

Choosing the Right Bosch Product

There are many factors to take into account when selecting the right Bosch water heater: the number of people in the home, type of showers and tubs, water pressure, and geographic region. To make the process easier, we offer an easy to use App, the **Bosch Sizing Calculator**. Installation links are available at www.boschheatingandcooling.com. This App will help you select a tankless water heater to suit your needs. Download the free Bosch Pro Sizing App on iTunes and Google Play Store.

1. On the map, determine the ground water temperature in your area.
2. In the corresponding column select the Bosch water heater based on how many fixtures you'll be running at the same time (gallons per minute).
3. Calculations based on 120°F set point temperature, 107°F shower temperature, 2.5 GPM showerhead flow rate, 1.5 GPM sink flow rate, adequate water pressure and gas supply. Variation from these parameters may alter actual performance. GPM shown is the hot water flow rate at 120°F set point temperature.

Tankless Water Heater Selector Guide

| Inlet Temp. (°F) | Summer | | | | | Winter | | | | |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| | 77° | 72° | 67° | 62° | 57° | 52° | 47° | 42° | 37° | |
| Gas Tankless | | | | | | | | | | |
| C 1210 ESC | 9.7 GPM | 8.7 GPM | 7.9 GPM | 7.3 GPM | 6.6 GPM | 6.1 GPM | 5.7 GPM | 5.4 GPM | 5 GPM | |
| C 1050 ES | 8.7 GPM | 7.8 GPM | 7 GPM | 6.5 GPM | 5.9 GPM | 5.5 GPM | 5.2 GPM | 4.7 GPM | 4.5 GPM | |
| C 950 ES | 7.5 GPM | 6.7 GPM | 6.1 GPM | 5.7 GPM | 5.2 GPM | 4.8 GPM | 4.4 GPM | 4.2 GPM | 3.9 GPM | |
| 940 ES/ESO | 7.8 GPM | 6.8 GPM | 6.1 GPM | 5.6 GPM | 5.2 GPM | 4.8 GPM | 4.4 GPM | 4.2 GPM | 3.9 GPM | |
| 830 ES | 6.9 GPM | 6 GPM | 5.5 GPM | 5 GPM | 4.5 GPM | 4.1 GPM | 3.9 GPM | 3.8 GPM | 3.5 GPM | |
| 520 HN/PN | 4.4 GPM | 3.9 GPM | 3.5 GPM | 3.2 GPM | 3 GPM | 2.7 GPM | 2.5 GPM | 2.4 GPM | 2.3 GPM | |
| 330 PN | 2.8 GPM | 2.4 GPM | 2.3 GPM | 2 GPM | 1.8 GPM | 1.7 GPM | 1.6 GPM | 1.5 GPM | 1.4 GPM | |
| Electric Tankless | | | | | | | | | | |
| WH36 | 5.7 GPM | 5.1 GPM | 4.6 GPM | 4.2 GPM | 3.9 GPM | 3.6 GPM | 3.4 GPM | 3.1 GPM | 3.0 GPM | |
| WH27 | 4.3 GPM | 3.8 GPM | 3.5 GPM | 3.2 GPM | 2.9 GPM | 2.7 GPM | 2.5 GPM | 2.3 GPM | 2.2 GPM | |
| WH17 | 2.7 GPM | 2.5 GPM | 2.2 GPM | 2.0 GPM | 1.9 GPM | 1.7 GPM | 1.6 GPM | 1.5 GPM | 1.4 GPM | |

☼ Simultaneous Showers 🚰 Sink Faucet

Bosch Gas Tankless Water Heaters

Bosch Therm and Greentherm tankless water heaters provide endless hot water with compact size and thermal efficiencies up to 98%. High-temperature capable to 184°F with optional commercial high-temp kit, and intelligent cascading up to 24 units on many models. Flexible installation and venting options offer versatility for residential and commercial applications.

| | | Therm | | Greentherm | | Therm | | Therm | | |
|---|----|---|---|---|---|--|---|---|---|---|
| | |  |  |  |  |  |  |  |  |  |
| Model | | C 1210 ESC NG / C 1210 ESC LP | C 1210 ES NG / C 1210 ES LP | C 1050 ES NG / C 1050 ES LP | C 950 ES NG / C 950 ES LP | 940 ES NG / 940 ES LP | 830 ES NG / 830 ES LP | 520 HN NG*** 520 HN LP*** | 520 PN NG*** 520 PN LP*** | 330 PN NG*** 330 PN LP*** |
| Part No. | NG | 7703311072 | 7703311073 | 7736501515 | 7736501516 | 7703311075 | 7703311076 | 7703331994 | 7703331995 | 7701331014 |
| | LP | 7703411070 | 7703411071 | 7736501517 | 7736501518 | 7703411073 | 7703411074 | 7703431996 | 7703431997 | 7701431941 |
| Applications | | Commercial | Commercial / Residential | Commercial / Residential | | Commercial / Residential | | Residential | | |
| Condensing / NonCondensing | | Condensing | Condensing | Condensing | | Non Condensing | | Non Condensing | | |
| Max. Input | | 225,000 | 225,000 | 199,000 | 175,000 | 199,000 | 175,000 | 117,000 | | 74,900 |
| Min. Input | | 25,000 | 25,000 | 19,900 | | 19,900 | | 30,735 | | 23,906 |
| Thermal Efficiency | | Up to 98% | Up to 98% | 96% | 94% | 82% | | 80% | | 77% |
| Capacity @ 35° GPM | | 12.1 | 12.1 | 10.5 | 9.2 | 9.4 | 8.3 | 5.2 | | 3.3 |
| Capacity @ 55° GPM | | 7.7 | 7.7 | 6.7 | 5.9 | 6.0 | 5.3 | 3.4 | 3.3 | 2.1 |
| Energy Factor | | N/A | N/A | .95 | .95 | .83 | .82 | N/A | | .68 |
| Activation Flow Rate, GPM | | 0.5 | 0.5 | 0.5 | | 0.5 | | 0.5 | | |
| Intelligent Cascading | | Up to 24 units | Up to 24 units | Up to 24 units | | Up to 24 units | | N/A | | |
| Temp Range °F | | 100 - 180 | 100-140 | 100-140 | | 100-140 | | High to Low | | |
| Temp Range with High Temp Kit, °F* | | N/A | N/A | 100-184 | | 100-184 | | N/A | | |
| Installation Options | | Indoor/ Outdoor** | Indoor/ Outdoor** | Indoor/Outdoor** | | Indoor Outdoor** | | Indoor | | |
| Dimensions (W-H-D), in | | 17 $\frac{1}{2}$ x 30 $\frac{1}{2}$ x 11 $\frac{1}{4}$ | 17 $\frac{1}{2}$ x 30 $\frac{1}{2}$ x 11 $\frac{1}{4}$ | 17 $\frac{1}{2}$ x 30 $\frac{1}{2}$ x 11 $\frac{1}{4}$ | | 17 $\frac{1}{2}$ x 30 $\frac{1}{2}$ x 11 $\frac{1}{4}$ | | 16 $\frac{1}{2}$ x 25 $\frac{1}{2}$ x 8 $\frac{1}{2}$ | | 12 $\frac{1}{2}$ x 22 $\frac{1}{2}$ x 8 $\frac{1}{2}$ |
| Weight, lbs | | 74 | 74 | 74 | | 67 | | 35 | | 26 |
| Water Connections | | $\frac{3}{4}$ " NPT | $\frac{3}{4}$ " NPT | $\frac{3}{4}$ " NPT | | $\frac{3}{4}$ " NPT | | $\frac{1}{2}$ " NPT | | |
| Gas Connection | | $\frac{3}{4}$ " NPT | $\frac{3}{4}$ " NPT | $\frac{3}{4}$ " NPT | | $\frac{3}{4}$ " NPT | | $\frac{3}{4}$ " NPT | | $\frac{1}{2}$ " NPT |
| Water Pressure, psi | | 30 - 150 | 30 - 150 | 30 - 150 | | 30 - 150 | | 30 - 150 | | |
| Min. NG Pressure | | 3.5" WC | 3.5" WC | 3.5" WC | | 3.5" WC | | 5.7" WC | | |
| Venting Options | | PVC, CPVC, ABS | PVC, CPVC, ABS | PVC, CPVC, ABS, PP | | Cat III Stainless Steel | | Galvanized B Vent | | |
| Vent Max. Run, ft | | 63 | 63 | 63 | | 61 $\frac{1}{2}$ | | N/A | | |
| ASME Rated | | ✓ | ✓ | N/A | N/A | N/A | N/A | N/A | | |
| Low NOx 2012 Compliant | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - |
| Energy Star® | | N/A | N/A | ✓ | ✓ | N/A | N/A | - | - | - |
| Warranties:⁵ Heat Exchanger All Other Parts Labor | | 5-Years 5-Years 1-Year | 15-Years 5-Years 1-Year | 15-Years 5-Years 1-Year† | | 15-Years 5-Years 1-Year | | 15-Years 2-Years 1-Year | | |

Piloted models 520 PN and 330 PN are also available. For complete specifications, refer to Bosch Therm product catalog or visit www.boschheatingandcooling.com

* High Temp Kit is for use in commercial applications only and will affect the product warranty. For commercial / non-residential warranty details, refer to the commercial catalog or visit www.boschheatingandcooling.com

** Outdoor installation requires optional outdoor kit

*** These models do not comply with the new NAECA standards, however they were manufactured prior to the implementation of these standards and are available and good for sale. These products have limited stock and will be available while supplies last.

⁵ Limited warranty. Copies of original warranties in their entirety are available at www.boschheatingandcooling.com

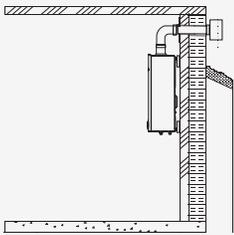
† Unit has to be installed properly within last year

Venting Configurations

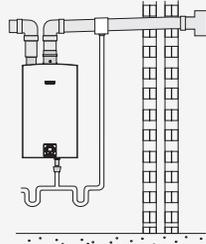
A sample of the many venting options available are shown below. These are not intended for installation configuration. Please consult the product manuals for complete venting information and requirements.

Bosch Therm and Greentherm Condensing Models Venting Configurations*

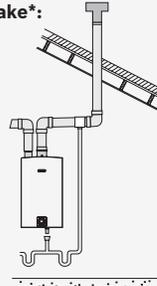
**C1210ES – Minimum Vent
Set-up Side View**



Room Air Intake:
Horizontal**



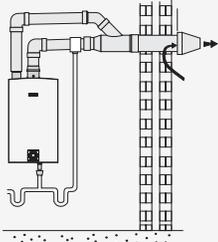
**Room Air Intake*:
Vertical**



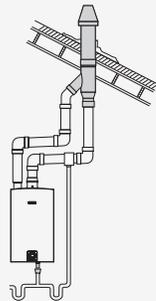
**Exterior
Air Intake:
Sealed
Combustion**



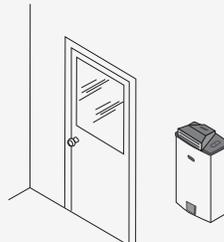
**Sealed Combustion:
Horizontal Concentric**



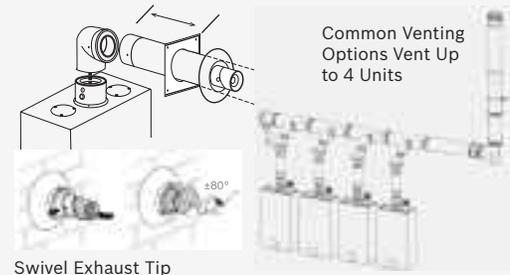
**Sealed
Combustion:
Vertical
Concentric**



**Outdoor
Installation**

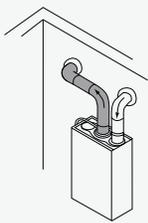


Up-and-Out Venting – Greentherm Only

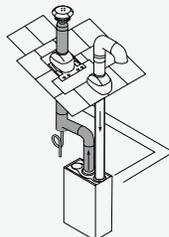


940 ES & 830 ES Venting Configurations

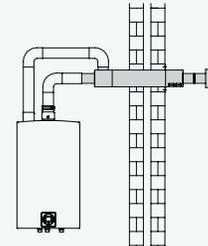
Horizontal Twin Pipe Termination



Vertical Twin Pipe Termination

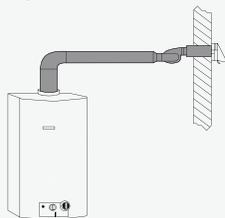


Concentric Venting Through the Wall

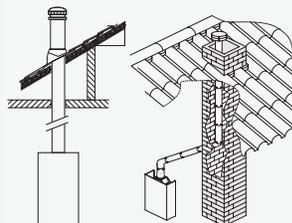


520 HN, 520 PN & 330 PN Venting Configurations*

**Horizontal Through the Wall
Power Vent Option**



**Vertical Configuration for
Unlined Interior Masonry**



Venting into a masonry chimney with approved liner, ceramic tile, clay or metal is permissible. For complete venting options and requirements, download the Product Manual at www.boschheatingandcooling.com

*Install indoors with PVC venting up to 63' or outdoor with optional accessory kit

**Room air set-ups must have adequate access fresh air. This configuration should not be used in cold climates.

*520 models only

Tankless Water Heater

Available Accessories



| Accessories | Part No | Greentherm | | | | | | | | |
|---------------------------|------------|------------|-----------|-----------|----------|--------|--------|--------|--------|--------|
| | | C 1210 ESC | C 1210 ES | C 1050 ES | C 950 ES | 940 ES | 830 ES | 520 HN | 520 PN | 330 PN |
| Anti-freeze | 7709003775 | | | | | | | ✓ | ✓ | ✓ |
| Remote Control | 7709003213 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Outdoor Kit Gray | 7709003913 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Outdoor Kit White | 7736502448 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Intelligent Cascading Kit | 7709003962 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Box Recess Box Assy* | 7736500043 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| High Temperature Kit | 7736500074 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Neutralizer Kit (JM2Kit) | 7738001483 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Isolation Kit | 7738003449 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

Complete venting options and pricing can be found in the price list

*Meets ULC S636 Standard



Remote Control



Recess Box

Concentric Venting

| | Part No | C 1210 ESC | C 1210 ES | C 1050 ES | C 950 ES | 940 ES | 830 ES | 520 HN | 520 PN | 330 PN |
|---|------------|------------|-----------|-----------|----------|--------|--------|--------|--------|--------|
| Concentric Vent Roof Terminal, 3/5" PVC | 196006 | | | ✓ | ✓ | | | | | |
| Concentric Vent Kit PP 80/125 | 7738003210 | | | ✓ | ✓ | | | | | |
| Concentric Vent Kit SS 3/5" | ESHCK | | | | | ✓ | ✓ | | | |
| Concentric Vent Roof Terminal, 3/6" PVC | 196016 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Stainless Steel Horizontal Vent | 4TWHVK3SII | | | | | ✓ | ✓ | | | |
| Power Vent Kit | AQ4 | | | | | | | ✓ | ✓ | ✓ |

Cascade Venting – Up to 2 week Delivery Time

| | | | | | | | | | | |
|--------------------------------------|------------|---|---|---|---|--|--|--|--|--|
| Cascade Set side by side 80-150 | 7736501100 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Cascade Set back to back ext. 80-150 | 7736501252 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Cascade Set back to back 80-150 | 7736501253 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Cascade Set side by side ext. 80-150 | 7736501254 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Wall terminal PP 150 | 7736501117 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Roof terminal PP 150 | 7736501119 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Elbow Dn150 90° | 7736501132 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Elbow Dn150 45° | 7736501146 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Extension fixed Dn150x2000 | 7736501133 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Extension fixed Dn150x1000 | 7736501135 | ✓ | ✓ | ✓ | ✓ | | | | | |
| Extension fixed Dn150x500 | 7736501137 | ✓ | ✓ | ✓ | ✓ | | | | | |

Electric Tankless & Point-of-Use Water Heaters

These compact electric tankless and mini-tank water heaters are perfect solutions for a variety of applications such as smaller homes, garage apartments, in-law suites and anywhere else you need hot water directly at the point-of-use.



| |  Bosch Tronic 5000 Electric Tankless Whole House | | |  Bosch Tronic 3000 Electric Tankless Under Sink | | | | |  Bosch Tronic 3000 T Electric Under Sink Mini-Tanks <i>All models sold in U.S. only</i> | | | |
|--|--|---------------------|----------------------|---|--------------|--------------|--------------|--------------|--|-----------------|-----------------|--|
| Model | WH36 | WH27 | WH17 | US12 | US9 | US7 | US6 | US3 | ES8 | ES4 | ES2.5 | |
| Part No. | 7736500680 | 7736503051 | 7736503050 | 7736500683 | 7736500687 | 7736500684 | 7736500686 | 7736500685 | 7738004998 | 7738004997 | 7738004996 | |
| Applications | Whole House | | | Under Sink | | | | | | | | |
| Output (kW) or Storage Volume (Gal) | 36.0 kW | 26.9 kW | 17.3 kW | 12 kW | 9.5 kW | 7.2 kW | 6.0 kW | 3.4 kW | 7 Gal | 4 Gal | 2.7 Gal | |
| Recovery Rate @ 90°F Rise GPH | - | - | - | - | - | - | - | - | 6.8 | | | |
| Activation Flow Rate, GPM | 0.6 | 0.8 | 0.6 | 0.6 | 0.75 | | 0.5 | | - | - | - | |
| Water Pressure Range, psi | 14.5 - 150 | 15 - 150 | | 10 - 150 | | | 1 - 150 | | | | | |
| Water Fittings | ¾" Male NPT | | | ½" Male NPT | | | | | ¾" Male NPT | ½" Male NPT | | |
| Thermal Efficiency | 97% | | | 98% | | | | | 98% | | | |
| Electrical Requirements (Amps / Volts) | 3x*** 60 A / 240 V | 3x* 40 A / 240 V | 2x** 40 A / 240 V | 50 A / 240 V | 40 A / 240 V | 30 A / 240 V | 25 A / 277 V | 30 A / 110 V | 12 A / 120 V | | | |
| Dimensions, in | 20 x 12½ x 4½ | 15½ x 12½ x 4½ | | 12¾ x 6½ x 3 | | | | | 17½ x 17½ x 14½ | 13¾ x 13¾ x 13½ | 13¾ x 13¾ x 10¾ | |
| Weight, lbs | 26.5 | 22 | 20 | 5 | | | | | 29.5 | 17.3 | 15.5 | |
| Warranty [§] | 5 Year | | | 5 Year | | | | | 6 Year | | | |

All models require hard wiring, except Bosch Tronic 3000T ES4 and ES2.5

*Canada 1 x 120 / 240 V

**Canada 1 x 80A / 240 V

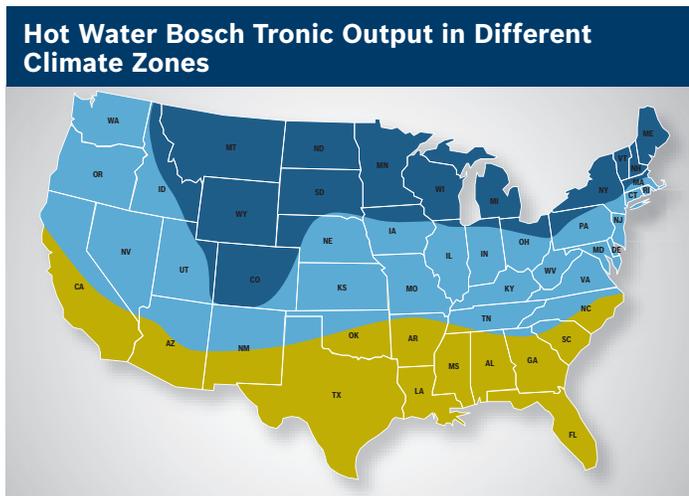
***Canada 1 x 175A / 240 V

§ Limited warranty. Copies of original warranties in their entirety are available at www.boschheatingandcooling.com

Bosch Tronic 5000 C | WH36 Bosch Tronic 6000 C | WH27, WH17 Whole House Electric Tankless Water Heaters

Endless Hot Water for One Major Application at a Time

The compact and powerful Tronic Series electric whole house tankless water heaters can be installed virtually anywhere inside the home. They are 97% efficient with no stand-by loss and have modulating elements that ensure a constant output temperature for hot water comfort.



- WH36 will provide for a 2-3 bathroom home
WH27 will provide for a 1-2 bathroom home
WH17 will provide for a 1 bathroom home
- WH36 will provide for a 1-2 bathroom home
WH27 will provide for a 1 bathroom home
- WH36 and WH27 will provide for a 1 bathroom home

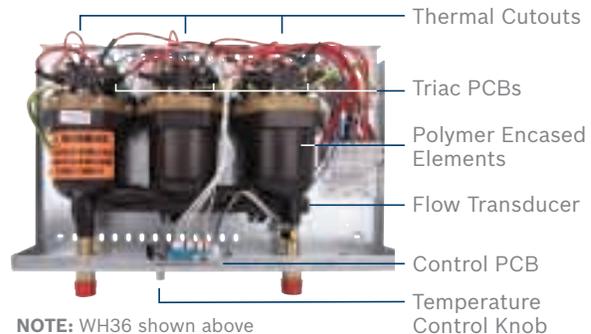
Model WH17 is not recommended for whole house use in climates where average ground water temperature is less than 60°F.



WATER CONNECTIONS:

The water lines both to the inlet & from the outlet must be copper or suitably rated stainless steel flex line for at least 1.5 feet from the water heater. Plastic or PEX type plumbing line materials are not suitable for connecting directly to the water heater.

NOTE: WH27/WH17 unit shown above



NOTE: WH36 shown above

Features

- ▶ 97% thermal efficiency
- ▶ Compact and lightweight
- ▶ Electronic flow sensor
- ▶ Element modulation provides a constant output temperature
- ▶ Filter screen on inlet
- ▶ New scale prevention technology
- ▶ Improved temperature stability & control
- ▶ 5 year limited warranty[§]

[§] Copies of original warranties in their entirety are available at www.boschheatingandcooling.com

| Technical Specifications | Tronic 5000 C | | Tronic 6000 C | |
|---|-----------------|--|--|--|
| | WH36 | WH27 | WH27 | WH17 |
| Part Numbers | 7736500680 | 7736503051 | 7736503051 | 7736503050 |
| Electrical Requirements | | | | |
| Voltage (VAC)* | 208-240 Nominal | 208-240 Nominal | 208-240 Nominal | 208-240 Nominal |
| Power (kW) | 36.0 | 26.9 | 26.9 | 17.3 |
| Required Circuit Breaker Amperage | USA / CANADA** | 180 (3 x 60 Amps) [†] 175 (1 x 175 Amps) | 120 (3 x 40 Amps) ** 120 (1 x 120 Amps) | 80 (2 x 40 Amps) [†] 80 (1 x 80 Amps) |
| | USA / CANADA** | 6 AWG (6 Conductors & Ground) 1/0 AWG | 8 AWG (6 Conductors & Ground) 2 AWG (2 Conductors & Ground) | 8 AWG (4 Conductors & Ground) 4 AWG (2 Conductors & Ground) |
| Phase | Single | Single | Single | Single |
| Maximum Flow Rates Depending on Temperature Rise | | | | |
| Input (kW) | 36.0 | 26.85 | 26.85 | 17.25 |
| GPM Output @ Temperature Rise of 75°F | 3.3 | 2.4 | 2.4 | 1.6 |
| GPM Output @ Temperature Rise of 60°F | 4.1 | 3.0 | 3.0 | 2.0 |
| GPM Output @ Temperature Rise of 45°F | 5.4 | 3.5 | 3.5 | 2.3 |

ELECTRICAL REQUIREMENTS:

- * Specs are based on 240 V. Lesser voltage (220 V or 208 V) will result in reduced output.
- ** In Canada unit must be wired to a single breaker. AE Canada Kit required.
- [†] The WH36 requires 180 amp circuit protection through three 60 amp circuit breakers in the U.S. The home MUST have a minimum of 300 amp service.
- ^{††} The WH27 requires 120 amp circuit protection through three 40 amp circuit breakers in the U.S. The home MUST have a minimum of 200 amp service.
- [‡] The WH17 requires 80 amps circuit protection through two 40 amp circuit breakers in the U.S. The home MUST have a minimum of 150 amp service.

Example: An inlet water temperature of 55°F and a desired water temperature of 120°F requires a temperature rise of 65°F.

Bosch Tronic 3000 | US12 - US3

Under-Sink Electric Tankless Water Heaters

Endless Hot Water for One Sink at a Time

Compact point-of-use / under-sink tankless water heaters are designed to provide an endless supply of hot water for kitchen and bathroom sinks. These units provide 98% efficiency with minimal stand-by loss and most models are equipped with high/low kW settings.

Note: All Bosch Tronic 3000 models require hard wiring.



Features

- ▶ 98% efficient with minimal stand-by loss
- ▶ Ultra compact and light weight, saving valuable space
- ▶ Copper heat exchanger with copper-sheathed heating elements
- ▶ Units can be mounted horizontally or vertically (except model US12)
- ▶ Model US12 features thermostatic control
- ▶ No temperature / pressure relief valve is necessary (subject to local codes)
- ▶ 5 year limited warranty[§]

[§] Copies of original warranties in their entirety are available at www.boschheatingandcooling.com

| Technical Specifications | US12 | US9 | US7 | US6 | US3 |
|--|-----------------|-----------------|-----------------|-------------|-------------|
| Part Number | 7736500683 | 7736500687 | 7736500684 | 7736500686 | 7736500685 |
| Thermal Efficiency | 98% | | | | |
| Thermostatic Control | ✓ | – | – | – | – |
| Activation Flow Rate, GPM | 0.6 | 0.75 | 0.75 | 0.5 | 0.5 |
| Electrical Requirements | | | | | |
| Voltage (VAC)* | 208-240 Nominal | 208-240 Nominal | 208-240 Nominal | 277 Nominal | 120 Nominal |
| Input (High/Low Setting), kW | 12 | 9.5 / 4.75 | 7.2 / 3.60 | 6.0 / 3.0 | 3.4 |
| Minimum Required Circuit Breaker Amperage | 50 | 40 | 30 | 25 | 30 |
| Minimum Wire Size | 6 AWG | 8 AWG | 10 AWG | 10 AWG | 10 AWG |
| Maximum Flow Rates Depending on Temperature Rise | | | | | |
| GPM Output @ Temperature Rise of 75°F | 1.1 | 0.9 | 0.7 | 0.5 | NA |
| GPM Output @ Temperature Rise of 60°F | 1.4 | 1.1 | 0.8 | 0.7 | NA |
| GPM Output @ Temperature Rise of 45°F | 1.8 | 1.4 | 1.1 | 0.9 | 0.5 |

Example: An inlet water temperature of 55°F and a desired water temperature of 120°F requires a temperature rise of 65°F.

*Specs are based on 240 V. Lesser voltage (220 V or 208 V) will result in reduced output. Values shown are for high / low kW settings.

Bosch Tronic 3000 T | ES8, ES4, ES2.5

Point-of-Use Electric Mini-Tank Water Heaters

Hot Water Where You Need It

The Bosch Tronic 3000 T point-of-use electric mini-tanks are available in three sizes which can be wall-hung (bracket included) or floor-mounted.

Easy installation. Simply tap into the cold water line, provide electrical connection and install the water heater directly at the sink. Can be used alone to provide a small volume of water or installed inline with a central water heater near the point-of-use to eliminate the wait for hot water.



Note: Sold in U.S. Only



| Technical Specifications | ES8 | ES4 | ES2.5 |
|---------------------------------------|-----------------|-----------------|-----------------|
| Part Number | 7738004998 | 7738004997 | 7738004996 |
| Thermal Efficiency | 98% | 98% | 98% |
| Tank Volume (gal) | 7 | 4 | 2.7 |
| Heating Capacity, Watts | 1440 | 1440 | 1440 |
| Recovery Rate @ 90°F Rise, GPH | 6.8 | 6.8 | 6.8 |
| Temperature Range (°F) | 65 - 145 | 65 - 145 | 65 - 145 |
| Max Operating Pressure (psi) | 150 | 150 | 150 |
| Weight (lbs) | 29.5 | 17.3 | 15.5 |
| Dimensions (in) | 17½ x 17½ x 14½ | 13¾ x 13¾ x 13½ | 13¾ x 13¾ x 10¾ |
| Water Fittings | ¾" Male NPT | ½" Male NPT | ½" Male NPT |
| Relief Valve | Included | Installed | Installed |
| Electrical Requirements | | | |
| Volts (VAC) | 120 | 120 | 120 |
| Amps | 12 | 12 | 12 |
| Connection Type | Hard Wired | Plug-In | Plug-In |

Features

- ▶ Supplies up to 2 sinks at a time (ES8 model)
- ▶ Provides hot water quickly at point-of-use
- ▶ Compact, lightweight, space saving
- ▶ Thick CFC-free foam insulation maximizes energy efficiency
- ▶ Units can be wall / floor mounted (bracket included) with multi-directional mounting available (ES8 model only)
- ▶ Temperature / pressure relief valve included
- ▶ Glass-lined tank for long service life
- ▶ Models ES2.5 and ES4 have a simple 120 VAC plug-in connection
- ▶ 6 year limited warranty[§]

[§] Copies of original warranties in their entirety are available at www.boschheatingandcooling.com

No more waiting for hot water. Ideal for stand-alone use or recirculation systems.



Relief valve is required; however it is not shown in above photo for clarity.

One Company... Powerful Solutions

Innovative Residential and Commercial Heating and Hot Water Systems



Bosch Greentherm

Whether you are building your dream home or simply remodeling your current home, there's a Bosch tankless water heater designed to provide you with an endless supply of hot water while cutting your current water heating bill in half.



Bosch Greenstar Boilers

Engineered to offer the ideal solution for those who want to meet their heating and hot water needs in one compact unit to save space and money on monthly utility bills.



Bosch CDi Greensource

Our geothermal systems are the most energy and cost efficient systems on the market making them the greenest technology and the smartest investment for residential heating and cooling applications. Tap into America's energy right under your feet.

Bosch has provided home comfort equipment and appliances for a Net Zero home at Serenbe, a sustainable eco-conscious community south of Atlanta. Over a year under ideal conditions, the 1650 sq ft home's energy usage is forecasted to net out at zero, meaning that the home will supply as much energy as it uses. To view the appliances and equipment, visit the Bosch Experience Center nearby. Bosch Experience Center at Serenbe showcases energy efficient, sustainable home solutions such as energy-efficient geothermal heating and cooling systems and related thermotechnology solutions, energy efficient appliances, security and sound systems, power tools, aluminum structural materials and automotive clean diesel technology—all from Bosch.

Visit the center to learn more about Bosch, our energy efficient products and sustainable solutions for your home or business:

10640 Serenbe Lane
Palmetto, GA 30268
www.BoschExperienceCenter.com

About the Bosch Group

Founded in 1886 in Stuttgart, Germany, the Bosch Group has been a leading global supplier of technology and services in Automotive, Industrial Technology, Consumer Goods and Building Technology for over 125 years. Today it has more than 350 subsidiaries in over 150 countries. Bosch products are built with one goal in mind: to enhance the quality of life by providing innovative solutions. Bosch is highly regarded for its development of automotive braking and steering safety systems (ABS) which have been improving automotive performance for over 30 years, helping reduce the number of accidents on North America's roads and highways. Environmental stewardship inspires and drives Bosch product development. Bosch is a leader in the development of next generation technologies that deliver improved performance and efficiency while conserving natural resources. In the area of sustainable mobility, we're helping reduce the fuel consumption and CO₂ emissions of new vehicles. Energy efficiency and environmental protection are also shaping our Industrial Technology, Consumer Goods and Building

Technology products. Green technologies, such as gas tankless water heaters, electric heat pump water heaters, solar thermal systems, photovoltaics, wind power and geothermal heat pumps are perhaps the best examples of smart technologies growing in demand and shaping the future of Bosch.

Bosch Thermotechnology in North America

Bosch Thermotechnology is a leading source of high quality water heating and comfort heating systems. In particular, the company offers Bosch tankless, heat pump and point-of-use water heaters, Bosch solar thermal systems, Bosch wall-mounted boilers, Bosch and FHP geothermal heat pumps and the Buderus brand of boiler tanks and solar solutions. As illustrated in this catalog and at www.boschheatingandcooling.com, Bosch Thermotechnology is committed to reinventing energy efficiency by offering smart products that work together as integrated systems which enhance quality of life in an ultra-efficient and environmentally friendly manner.

Visit www.bosch.com / www.bosch-press.com to learn even more about Bosch's past, present and future.



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