Introducing Bosch Therm, our most advanced line of residential tankless water heaters. Enjoy endless hot water, space saving design and up to 98% efficiency.
The Bosch Group has been a leading global supplier of technology and services in the areas of Automotive, Industrial Technology, Consumer Goods and Building Technology for over 100 years. The company was founded in Stuttgart, Germany, in 1886 and today has more than 300 subsidiaries in over 150 countries. Every Bosch product is built with one goal in mind; to enhance quality of life by providing innovative technological 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, heat pump electric 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, point-of-use water heaters, Bosch solar thermal systems, Buderus floor-standing and wall-hung boilers, FHP geothermal heat pumps as well as controls and accessories for every product line. As illustrated in this catalog and at www.bosch-climate.us, 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.
Contents

1 About the Bosch Group
3 Why Bosch is your best choice
4 Residential product guide
5 Product comparison guide
6 New! Bosch Therm
7 Point-of-use solutions
8 Application and feature icons key
9 Residential gas tankless water heaters
13 Bosch Therm condensing gas tankless
14 Bosch Therm non condensing gas tankless
16 Tankless water heater accessories
17 Electric tankless and point-of-use solutions
18 Powerstream Pro 17 & 27 series
19 Powerstream Pro 1-12 compact series
20 Ariston Pro GL2.5Ti, GL4Ti, & GL8Ti
21 New for 2011! Bosch Compress heat pump electric water heater
22 Customer testimonials
23 Bosch system integration
24 Bosch programs & incentives
Why Bosch is your best choice

The US Department of Energy says that standard residential tank storage water heaters are the highest energy consuming appliances in the home only trailing heating and air conditioning systems. Think about it. Then ask yourself, how old is the water heater in your garage, attic or basement? If it’s a traditional tank style water heater and more than eight years old, it’s using more energy than your refrigerator, dishwasher, washing machine and dryer combined! It’s time to upgrade.

To help identify the Bosch water heating solution that’s right for you, refer to the Product Comparison Guide in this catalog or visit www.bosch-climate.us and put the Bosch Sizing Calculator to work for you!

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 and tankless water heaters. 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 water heater tank, renovating a master bath, or building a new home, you can trust Bosch has a high-quality water heating solution that’s a perfect match for your needs. With over 100 years of engineering experience, you can buy with confidence knowing that Bosch products are designed to work together seamlessly which means you can easily integrate Bosch products to build a customized system.

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.

Peace-of-mind warranties are 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 each product with the most generous warranties in the industry. Our 15-Year residential heat exchanger warranty for example, exceeds our competitors by at least three years.
Bosch has over 100 years of experience in water heating systems, including 25 years with condensing technology. You can trust Bosch has the best water heating products for a variety of residential applications. From high-efficiency gas condensing tankless water heaters to various compact electric models and mini-tanks for point-of-use applications, rest assured we build something to handle every need. And best of all, Bosch products are designed to complement one another and work together seamlessly with solar thermal, cascading and recirculation systems, so you can easily expand your system as needs change.
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.

### Choosing the right Bosch product

There are many factors that go into 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 the map and flow-rate table below as well as a new Bosch Sizing Calculator at [www.bosch-climate.us](http://www.bosch-climate.us).

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.

**Example:** A homeowner in Miami, Florida is considering the C1210 ES. The ground water temperature in Miami is 77°F which means this family can run up to 5 showers at the same time.

<table>
<thead>
<tr>
<th>Inlet Temp. (F)</th>
<th>Summer</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Tankless</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>77˚F</td>
<td>9.6 GPM</td>
<td>6.7 GPM</td>
</tr>
<tr>
<td>72˚F</td>
<td>8.8 GPM</td>
<td>6.0 GPM</td>
</tr>
<tr>
<td>67˚F</td>
<td>8.0 GPM</td>
<td>5.4 GPM</td>
</tr>
<tr>
<td>62˚F</td>
<td>7.3 GPM</td>
<td>5.0 GPM</td>
</tr>
<tr>
<td>57˚F</td>
<td>6.7 GPM</td>
<td>4.6 GPM</td>
</tr>
<tr>
<td>52˚F</td>
<td>6.2 GPM</td>
<td>4.2 GPM</td>
</tr>
<tr>
<td>47˚F</td>
<td>5.8 GPM</td>
<td>3.7 GPM</td>
</tr>
<tr>
<td>42˚F</td>
<td>5.4 GPM</td>
<td>3.5 GPM</td>
</tr>
<tr>
<td>37˚F</td>
<td>5.1 GPM</td>
<td>3.2 GPM</td>
</tr>
<tr>
<td><strong>Electric Tankless</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>77˚F</td>
<td>4.3 GPM</td>
<td>2.7 GPM</td>
</tr>
<tr>
<td>72˚F</td>
<td>3.9 GPM</td>
<td>2.5 GPM</td>
</tr>
<tr>
<td>67˚F</td>
<td>3.5 GPM</td>
<td>2.2 GPM</td>
</tr>
<tr>
<td>62˚F</td>
<td>3.2 GPM</td>
<td>2.0 GPM</td>
</tr>
<tr>
<td>57˚F</td>
<td>2.9 GPM</td>
<td>1.9 GPM</td>
</tr>
<tr>
<td>52˚F</td>
<td>2.7 GPM</td>
<td>1.7 GPM</td>
</tr>
<tr>
<td>47˚F</td>
<td>2.5 GPM</td>
<td>1.6 GPM</td>
</tr>
<tr>
<td>42˚F</td>
<td>2.3 GPM</td>
<td>1.5 GPM</td>
</tr>
<tr>
<td>37˚F</td>
<td>2.2 GPM</td>
<td>1.4 GPM</td>
</tr>
</tbody>
</table>

Simultaneous Showers  Sink Faucet
New! Bosch Therm
gas tankless water heaters

Introducing Bosch Therm. Our newest line of tankless water heaters. This expanded and advanced line includes efficient condensing and non-condensing tankless water heaters with more compact models and greater installation versatility - to satisfy every possible residential application.

| Residential Series | Model/Part Number | Applications | Condensing / Non Condensing | Max. Input | Min. Input | Thermal Efficiency | Capacity @ 35F Rise | Energy Factor | Activation Flow Rate | Temp Range (F) | Installation Options | Altitude Tested | Venting Options | Water Pressure Range | Water Connections | Min. NG Pressure | Gas Connection | Dimensions | Weight (Lbs) | Heat Exchanger Warranty | All Other Parts |
|--------------------|-------------------|--------------|-----------------------------|-----------|-----------|------------------|---------------------|--------------|---------------------|----------------|----------------------|----------------|----------------|-------------------|----------------|----------------|----------------|-------------|------------|-------------------|-----------------|-----------------|
|                    | C 1210 ES NG / C 1210 ES LP | Residential | Condensing | 225,000 | 25,000 | Up to 98% | 12.1 | N/A | 0.5 GPM | 100-140 | Indoor or Outdoor* | 8,000 ft. | PVC, CPVC, ABS, Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 88 | 15 Years | 5 Years |
|                    | C 1050 ES NG / C 1050 ES LP | Residential | Condensing | 199,000 | 19,900 | 92% | 10.5 | .92 | 0.5 GPM | 100-140 | Indoor or Outdoor* | 8,000 ft. | PVC, CPVC, ABS, Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 74 | 15 Years | 5 Years |
|                    | 940 ES NG / 940 ES LP | Residential | Non Condensing | 199,000 | 19,900 | 83% | 9.4 | .83 | 0.5 GPM | 100-140 | Indoor | 8,000 ft. | Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 74 | 15 Years | 5 Years |
|                    | 940 ESO NG / 940 ESO LP | Residential | Non Condensing | 175,000 | 19,900 | 83% | 6.0 | .83 | 0.5 GPM | 100-140 | Indoor | 8,000 ft. | Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 74 | 15 Years | 5 Years |
|                    | 830 ES NG / 830 ES LP | Residential | Non Condensing | 140,000 | 20,000 | 83% | 5.3 | .83 | 0.5 GPM | 100-140 | Indoor | 8,000 ft. | Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 74 | 15 Years | 5 Years |
|                    | 660 EF NG / 660 EF LP | Residential | Non Condensing | 140,000 | 20,000 | 80% | 4.2 | .82 | 0.5 GPM | 100-160 | Indoor | 8,000 ft. | Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 74 | 15 Years | 5 Years |
|                    | 660 EFO NG / 660 EFO LP | Residential | Non Condensing | 117,000 | 30,735 | 78% | 3.4 | .82 | 0.5 GPM | 100-160 | Indoor | 8,000 ft. | Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 74 | 15 Years | 5 Years |
|                    | 520 HN NG / 520 HN LP | Residential | Non Condensing | 117,000 | 30,735 | 78% | 5.2 | .82 | 0.5 GPM | 100-160 | Indoor | 8,000 ft. | Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 74 | 15 Years | 5 Years |
|                    | 520 PN NG / 520 PN LP | Residential | Non Condensing | 117,000 | 30,735 | 78% | 6.6 | .82 | 0.5 GPM | 100-160 | Indoor | 8,000 ft. | Cat III Stainless Steel | 30 - 150 psi | ¾ NPT | 3.5" WC | 17.875 x 30.5 x 11.25 | 74 | 15 Years | 5 Years |
|                    | 330 PN NG / 330 PN LP | Residential | Non Condensing | 74,900 | 30,735 | 78% | 3.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

*Outdoor installations require optional outdoor kit. 35°F capacity on C 1210 and C 1050 models based on installation with a mixing valve to overcome typical pressure loss through the water heater and system. ** Energy Star icon does not apply to C 1210 ES models.
### Point-of-use solutions
deliver hot water virtually anywhere

These electric compact tankless and mini-tank water heaters are perfect solutions for a variety of residential applications.
Ideal for smaller homes, garage apartments, in-law suites and anywhere else you need hot water directly at the point-of-use.
These products are also smart for use as a supplemental source for high-flow fixtures or recirculation systems.

### Residential Series

<table>
<thead>
<tr>
<th>Series</th>
<th>POWERSTREAM PRO Electric Tankless</th>
<th>ARISTON Electric Mini-Tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model/Part Number</td>
<td>RP27PT</td>
<td>RP17PT</td>
</tr>
<tr>
<td>Applications</td>
<td>Residential Whole House</td>
<td>Residential Point-of-Use</td>
</tr>
<tr>
<td>Output (kW) or Storage Volume (Gal)</td>
<td>26.85 kW</td>
<td>17.25 kW</td>
</tr>
<tr>
<td>Capacity @ 45°F Rise</td>
<td>4.0</td>
<td>2.6</td>
</tr>
<tr>
<td>Capacity @ 77°F Rise</td>
<td>2.4</td>
<td>1.5</td>
</tr>
<tr>
<td>Recovery Rate @ 90°F Rise (GPH)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Activation Flow Rate</td>
<td>0.8</td>
<td>0.6</td>
</tr>
<tr>
<td>Water Pressure Range</td>
<td>15 – 150 psi</td>
<td>15 – 150 psi</td>
</tr>
<tr>
<td>Default Temp (F)</td>
<td>122</td>
<td>122</td>
</tr>
<tr>
<td>Thermal Efficiency</td>
<td>97%</td>
<td>97%</td>
</tr>
<tr>
<td>Electrical Requirements (Amps / Volts)</td>
<td>3x40A 240V</td>
<td>2x40A 240V</td>
</tr>
<tr>
<td>Dimensions</td>
<td>15.5&quot;x15.25&quot;x4.5&quot;</td>
<td>15.5&quot;x15.25&quot;x4.5&quot;</td>
</tr>
<tr>
<td>Weight (Lbs)</td>
<td>22</td>
<td>20</td>
</tr>
</tbody>
</table>

**ICON KEY:**

All models, except the Ariston GL4Ti and GL2.5Ti, require hard wiring.
Application and feature icons

**RESIDENTIAL**
Designed for single-family homes, townhomes and condominiums. You can also cascade the units for larger, multi-family dwellings.

**RECIRCULATION**
Circulates warm water throughout the home for instant hot water. Bosch models maintain their 15-Year warranty when combined with an Ariston mini-tank, and offer a 3-year warranty when used as a direct source for recirculation.

**SPACE HEATING**
Models marked with this icon can be used to provide both domestic hot water and space heating using radiant floor heating or a hydronic air handler system.

**SOLAR READY**
Integrates with Bosch solar thermal systems for use as a back-up hot water source during inclement weather conditions.

**POINT-OF-USE**
Compact tankless and mini-tank water heaters for smaller homes, garage apartments, breakrooms, public restrooms, janitor closets, salons, medical and veterinarian offices.

**LOW NOX 2012 SCAQMD COMPLIANT**
Bosch condensing tankless models marked with this icon are ultra efficient and reduce NOx emissions ahead of the 2012 SCAQMD (14ng/j) regulations.

**ZERO EMISSIONS**
Identifies our greenest products that produce no emissions.

**VENTS WITH PVC**
These Bosch models can be vented with PVC for faster, easier and lower-cost installation.

**ENERGY STAR® RATED**
These Bosch products are the most energy efficient and qualify for rebates.

**UP TO $1500 FEDERAL TAX CREDIT**
Currently eligible for a Federal Tax Credit up to 30% of the installed cost.

**15 YEAR WARRANTY**
Backed by our 15-Year residential tankless heat exchanger warranty.
New! Bosch Therm residential gas tankless energy efficient water heaters
The benefits of going tankless

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 morning rush-hour or with extra family in town.

Saves up to 50% on water heating costs
A tank style hot water heater keeps water hot 24 hours a day even while you are at work or sleeping. A tankless water heater does not store water like a tank. It produces hot water only when needed, cutting out needless energy consumption and therefore reducing water heating costs by up to 50%.

Space saving technology
A typical tank water heater requires up to 13 sq. ft. of space. If the price per sq. ft. of real estate in your area is $150, that’s almost $2,000 worth of space to be re-purposed. Tankless water heaters are compact and can install virtually anywhere - even outdoors.

Reduces greenhouse gasses
The EPA identified NOx as a main greenhouse gas contributing to acid rain, respiratory problems and global warming. Bosch’s condensing tankless models use an exclusive combustion process which achieves up to 98% thermal efficiency and reduces NOx emissions ahead of 2012 SCAQMD (14ng/j) regulations. This provides greater energy savings while contributing to cleaner air and better quality of life for all.

Bosch exclusive: Patented burner design
Bosch’s patented heat exchanger, with dual-fan and fully modulating vertical burner design, achieves an “even” flame pattern that prevents the hot-spots and heat exchanger corrosion common with other tankless water heater burner designs. To prevent scale build up that can reduce operating efficiency, Bosch created proprietary built-in turbulators to make their tankless water heaters work better and last longer.
### Key benefits

<table>
<thead>
<tr>
<th></th>
<th>Bosch Therm tankless</th>
<th>Gas storage tank water heater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides endless hot water on-demand?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Compact, easy access and 100% serviceable parts?</td>
<td>Yes</td>
<td>No. Tanks are usually just replaced</td>
</tr>
<tr>
<td>Built-in digital control panel with precise 2°F temperature increments?</td>
<td>Yes</td>
<td>No. High to low setting</td>
</tr>
<tr>
<td>Maintains efficiency over the life of the product?</td>
<td>Yes</td>
<td>No. Sediment builds-up inside the tank with each use</td>
</tr>
<tr>
<td>Reduces opportunity for bacteria growth?</td>
<td>Yes. There is minimal standing water to grow bacteria</td>
<td>No. Stored warm water mixes with sediment and is a breeding ground for bacteria</td>
</tr>
<tr>
<td>Fully modulating “vertical” burner that works on demand only?</td>
<td>Yes. A Bosch exclusive</td>
<td>No. Uses a single burner that operates with or without hot water demand</td>
</tr>
<tr>
<td>How much heat and energy is wasted in the exhaust?</td>
<td>Bosch dual heat exchangers minimize waste and optimize efficiency - up to 98%</td>
<td>Heat rises and energy is wasted through the flue at around 78% efficiency</td>
</tr>
<tr>
<td>Estimated to last 20+ Years?</td>
<td>Yes</td>
<td>No. Replace every 6-12 years</td>
</tr>
</tbody>
</table>
Bosch condensing tankless water heaters are engineered to operate at up to 98% efficiency when North American hot water demands are most common

The Bosch C 1210 ES and C 1050 ES gas tankless water heaters are ultra efficient fully condensing water heaters. Unlike traditional non-condensing water heaters, a condensing unit captures latent heat from condensation of the exhaust gas and uses it to preheat the incoming cold water, making Bosch condensing tankless water heaters 10% more efficient than a traditional tankless water heater.

As seen on the chart below, this smart technology ensures maximum performance and energy efficiency during normal usage. This is a critical difference in Bosch technology and something we think you should understand because some tankless products advertise high efficiencies based on less common flow situations. With Bosch you know exactly what you are buying.
Bosch Therm condensing
gas tankless water heaters

**Bosch Therm C 1210 ES**
- 225,000 BTU/Hr Max
- 25,000 BTU/Hr Min
- Up to 98% Thermal efficiency
- 12.1 gallons per minute capacity
- Available in NG and LP models
- 100°F - 140°F temperature range
- Altitude tested to 8,000 ft.
- Vents with PVC
- 15-Year warranty and
  20+ year life expectancy

**Bosch Therm C 1050 ES**
- 199,000 BTU/Hr Max
- 19,900 BTU/Hr Min
- 92% Thermal efficiency
- 10.5 gallons per minute capacity
- Available in NG and LP models
- Energy Factor: 0.92
- 100°F - 140°F temperature range
- Altitude tested to 8,000 ft.
- Vents with PVC
- 15-Year warranty and
  20+ year life expectancy

*Bosch makes outdoor installations simple and attractive with optional Outdoor Vent Kit, Pipe Cover and Recess Box accessories.*

**CONDENSING MODELS** install indoors with PVC venting up to 63 feet or outdoor with optional accessory kit

Attention Bosch Contractors:
*For more venting options and installation diagrams, download individual Product Manuals and Applications Manual at www.bosch-climate.us*
Bosch Therm non condensing gas tankless water heaters

Bosch Therm 940 ES
- 199,000 BTU/Hr Max
- 19,900 BTU/Hr Min
- 83% Thermal efficiency
- 9.4 gallons per minute capacity
- Available in NG and LP models
- Energy Factor: 0.83
- 100°F - 140°F temperature range
- Altitude tested to 8,000 ft.
- Vents with 3” or 4” stainless steel
- 15-Year warranty and 20+ year life expectancy

Bosch Therm 660 EF
- 140,000 BTU/Hr Max
- 20,000 BTU/Hr Min
- 83% Thermal efficiency
- 6.6 gallons per minute capacity
- Available in NG and LP models
- Energy Factor: 0.82
- 100°F - 160°F temperature range
- Altitude tested to 4,500 ft.
- Vents with 3” stainless steel
- 15-Year warranty and 20+ year life expectancy

Bosch Therm 940 ESO
- This outdoor version of the 940ES ships with everything needed for outdoor installation.

Bosch Therm 830 ES
- 175,000 BTU/Hr Max
- 19,900 BTU/Hr Min
- 83% Thermal efficiency
- 8.3 gallons per minute capacity
- Available in NG and LP models
- Energy Factor: 0.83
- 100°F - 140°F temperature range
- Altitude tested to 8,000 ft.
- Vents with 3” or 4” stainless steel
- 15-Year warranty and 20+ year life expectancy

Bosch Therm 660 EFO
- This outdoor version of the 660EF ships with everything needed for outdoor installation.

Bosch Therm 520 PN
- 117,000 BTU/Hr Max
- 30,735 BTU/Hr Min
- 78% Thermal efficiency
- 5.2 gallons per minute capacity
- Available in NG and LP models
- Altitude tested to 4,500 ft.
- Vents with galvanized B-Vent
- 15-Year warranty and 20+ year life expectancy
- Piezo ignition
- Requires no electricity

Bosch Therm 330 PN
- 74,900 BTU/Hr Max
- 30,735 BTU/Hr Min
- 78% Thermal efficiency
- 3.3 gallons per minute capacity
- Available in NG and LP models
- Altitude tested to 4,500 ft.
- Vents with galvanized B-Vent
- 15-Year warranty and 20+ year life expectancy
- Piezo ignition
- Requires no electricity

*NON-CONDENSING vent configurations

Horizontal twin pipe termination
Vertical twin pipe termination
Concentric venting through the wall
Exclusive! Bosch Therm 520 HN
hydro-power gas tankless

**Patented Bosch technology saves electricity and gas**

The Bosch 520 HN incorporates a revolutionary hydro-power generated ignition system allowing the water heater to operate without a standing pilot, an electric connection or a battery. A small turbine in the water heater uses the energy from the flowing water to ignite the 520 HN burner. This innovative technology, patented by Bosch, makes this an ideal product for installations without access to electricity or regions prone to inclement weather and power outages. The modulating gas valve maintains a constant temperature at varying flow rates and a high 80% efficiency.

**Features**

- 117,000 BTU/Hr Max
- 30,735 BTU/Hr Min
- 80% Thermal efficiency
- 5.2 gallons per minute capacity
- Available in NG and LP models
- Vents with galvanized B-Vent
- 15-Year warranty and 20+ year life expectancy
- Requires no electricity

**Venting configurations for Bosch Therm 520 HN, 520 PN and 330 PN models**

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.bosch-climate.us
# Tankless water heater
available accessories

## Available Accessories

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>C 1210 ES</th>
<th>C 1050 ES</th>
<th>940 ES</th>
<th>940 ESO</th>
<th>830 ES</th>
<th>660 EF</th>
<th>660 EFO</th>
<th>520 HN / 520 PN</th>
<th>330 PN</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESHCK</td>
<td>Concentric vent/air intake kit stainless steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>196016</td>
<td>Concentric termination kit - PVC*</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L2594</td>
<td>Exhaust/intake bird screen - PVC</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ES VVT</td>
<td>Vertical vent kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4TWHVK3SII</td>
<td>Horizontal vent kit</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BTOK</td>
<td>Outdoor kit for Therm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSTAT2</td>
<td>Wireless remote control</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7709003962</td>
<td>Intelligent cascading kit</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7709003775</td>
<td>Freeze prevention kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8703305356</td>
<td>External water filter</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7736500074</td>
<td>High temperature kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>196061</td>
<td>PVC Condensing drain tee†</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JM-2KIT</td>
<td>Condensate neutralization cartridge kit</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ES ISO KIT</td>
<td>Isolation valve kit with PRV</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>AQ4</td>
<td>Power vent w/back draft flapper</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7709003956</td>
<td>Pipe cover</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTPCES</td>
<td>Pipe cover</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7709003957</td>
<td>Recess box</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7736500043</td>
<td>Recess box</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>7709003958</td>
<td>Remote controller (US)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7709003959</td>
<td>Remote controller (CAN)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7709003960</td>
<td>10' Length RC cord</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7709003961</td>
<td>26' Length RC cord</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7709003963</td>
<td>Junction box (unit cover for outdoor)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2SVSWB03</td>
<td>3&quot; Vent adaptor for 660 EF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Meets ULC S636 Standard
† Also included in the Concentric termination kit (196016)
Electric tankless and point-of-use solutions deliver hot water virtually anywhere

With these compact tankless and mini-tank products from Bosch, there is no limit to where you can have hot water. These heaters are an ideal solution for isolated locations and when you need hot water at a dedicated fixture:

- Garage apartment, pool house, in-law suites
- Supplemental hot water for high-flow fixtures
- Hard to reach locations that need extra hot water
- Smaller properties and second homes
Powerstream Pro 17 & 27 series

Whole house electric tankless water heaters
The compact and powerful RP17PT & RP27PT electric whole house tankless water heaters can be installed virtually anywhere inside the home. They are 97% efficient with minimal stand-by loss and have a built-in flow sensor that ensures a constant output temperature.

Note: These Powerstream Pro models require hard wiring.

Recommended Climate Zones for Installation of the RP17PT and RP27PT

Model RP17PT is not recommended for whole house use in climates where average ground water temperature is less than 60°F.

RP17PT for Point-of-Use or RP27PT may be used for Whole House
RP17PT or RP27PT may be used for Whole House

10-YEAR WARRANTY
Part #
RP17PT
RP17PTK (Canada)
RP27PT
RP27PTK (Canada)

Features
- Over 97% efficiency rating
- Compact and lightweight
- Electronic flow switch
- Flow sensor provides a constant output temperature
- Filter screen on inlet
- External temperature control

Inlet Temp. (F) | Summer | Winter
--- | --- | ---
Electric Tankless | 77˚ | 72˚ | 67˚ | 62˚ | 57˚ | 52˚ | 47˚ | 42˚ | 37˚

RP 17 PT
- 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

RP 27 PT
- 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

Simultaneous Showers | Sink Faucet

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 rated voltage. Variation from these parameters may alter actual performance. GPM shown is the hot water flow rate at 120°F Set Point temperature. For additional information refer to the groundwater temperature map on page 5.
Powerstream Pro
RP1 - RP12 compact series

Point-of-Use electric tankless water heaters

Six compact, point-of-use tankless water heaters, designed to provide an endless supply of hot water for kitchen and bathroom sinks. These units provide 99% efficiency with minimal stand-by loss and most models are equipped with high/low kW settings. Common applications include: garage apartments, in-law suites and smaller homes.

Features
- Compact, point-of-use tankless water heaters
- 99% efficient with minimal stand-by loss
- Copper heat exchanger and copper-sheathed heating elements
- Most models are equipped with high/low kW settings
- Units can be mounted in any direction (except RP12PT)
- All units require hard wiring
- Available in 6 models to accommodate a wide range of applications

All PowerStream Pro models require hard wiring.

Dimensions

Technical Specifications Powerstream Pro RP1-RP12

<table>
<thead>
<tr>
<th>Model #</th>
<th>Wire Size</th>
<th>Voltage</th>
<th>Amps</th>
<th>High kW</th>
<th>Low kW</th>
<th>0.5</th>
<th>1.0</th>
<th>1.5</th>
<th>2.0</th>
<th>Degree rise at flow rates (gpm)</th>
<th>Activation Rate (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP1P</td>
<td>8GA</td>
<td>240</td>
<td>40</td>
<td>9.50</td>
<td>-</td>
<td>N/A</td>
<td>64°F</td>
<td>42°F</td>
<td>32°F</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td>RP2P</td>
<td>10GA</td>
<td>277</td>
<td>22</td>
<td>6.00</td>
<td>-</td>
<td>81°F</td>
<td>42°F</td>
<td>27°F</td>
<td>N/A</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>RP3P</td>
<td>10GA</td>
<td>120</td>
<td>29</td>
<td>3.40</td>
<td>-</td>
<td>41°F</td>
<td>21°F</td>
<td>14°F</td>
<td>N/A</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>RP7P</td>
<td>10GA</td>
<td>240</td>
<td>30</td>
<td>7.20</td>
<td>-</td>
<td>N/A</td>
<td>48°F</td>
<td>32°F</td>
<td>24°F</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td>RP9P</td>
<td>8GA</td>
<td>277</td>
<td>35</td>
<td>9.50</td>
<td>-</td>
<td>N/A</td>
<td>64°F</td>
<td>42°F</td>
<td>32°F</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td>RP12PT</td>
<td>6GA</td>
<td>240</td>
<td>50</td>
<td>12.00</td>
<td>-</td>
<td>N/A</td>
<td>72°F</td>
<td>52°F</td>
<td>42°F</td>
<td>0.75</td>
<td></td>
</tr>
</tbody>
</table>

1 gpm = Gallons Per Minute
2 RP3P includes a 0.5 gpm faucet aerator for optimal performance
3 High/Low kW settings possible within some settings
4 These units will operate on 220V at 84% of capacity and on 208V at 75% of capacity
5 This unit is designed to operate on 240V only
Ariston Pro
Point-of-use electric mini-tank water heaters

Easy installation and energy efficiency
The Ariston point-of-use electric mini-tank is available in three sizes. The units can be wall-hung (bracket included) or floor-mounted and come with a temperature/pressure relief valve. Simply tap into the cold water line and install the water heater directly at the sink to provide hot water. They may also be installed in-line with a larger hot water source to eliminate the wait for hot water. The two smaller units have a simple 120V AC plug-in connection.

Features
- Saves space
- Provides hot water quickly at the point-of-use
- Stand-alone or in-line application
- Temperature/pressure relief valve included

Technical Specifications

<table>
<thead>
<tr>
<th>Model #</th>
<th>GL2.5Ti</th>
<th>GL4Ti</th>
<th>GL8Ti</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank Volume</td>
<td>2.75 gallons</td>
<td>3.85 gallons</td>
<td>7 gallons</td>
</tr>
<tr>
<td>Dimensions</td>
<td>14&quot;x14&quot;x10¼&quot;</td>
<td>14&quot;x14&quot;x12¾&quot;</td>
<td>17½&quot;x17½&quot;x14½&quot;</td>
</tr>
<tr>
<td>Voltage</td>
<td>120V AC</td>
<td>120V AC</td>
<td>120V AC</td>
</tr>
<tr>
<td>Amperage</td>
<td>12.5 amps</td>
<td>12.5 amps</td>
<td>12.5 amps</td>
</tr>
<tr>
<td>Wire Size</td>
<td>Plug-in</td>
<td>Plug-in</td>
<td>Hard-wired</td>
</tr>
<tr>
<td>Heating Capacity</td>
<td>1500 watts</td>
<td>1500 watts</td>
<td>1500 watts</td>
</tr>
<tr>
<td>Recovery at 90° F Rise</td>
<td>6.8 gph</td>
<td>6.8 gph</td>
<td>6.8 gph</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>65˚-145˚F</td>
<td>65˚-145˚F</td>
<td>65˚-145˚F</td>
</tr>
<tr>
<td>Water Connections</td>
<td>½&quot; NPT</td>
<td>½&quot; NPT</td>
<td>½&quot; NPT</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>150 psi</td>
<td>150 psi</td>
<td>150 psi</td>
</tr>
<tr>
<td>Relief Valve</td>
<td>Installed</td>
<td>Installed</td>
<td>Included</td>
</tr>
</tbody>
</table>

gph = gallons per hour

No more waiting for hot water. Ideal for stand-alone use or recirculation systems
New for 2011! **Bosch Compress**

heat pump electric water heater

The Bosch heat pump water heater is ultra efficient and shares similar technology as an ENERGY STAR® qualified refrigerator. How does this work? Instead of the cooling effect created in a refrigerator, Bosch utilizes this technology in reverse mode to heat water. By using a specially designed pump, compressor and heat exchanger system, the heat is transferred from the surrounding air to the water stored in a well insulated storage tank. The result is efficient hot water and zero emissions!

**Bosch Compress**

heat pump
electric water heater

**Features**

- Ultra efficient with proven technology
- Zero emissions
- Designed to be Energy Star® qualified
- Simple installation requires standard plumbing and electrical connections same as for traditional electric water heaters
- Easy to read LCD display allows for easy operation for ideal temperature, efficiency and demand settings
- Ducting option increases efficiency and makes Bosch Compress the quietest unit in the market
- Visit www.bosch-climate.us for updated information about this new product

Final product design and specifications are subject to change without notice.
Customer testimonials

Bosch would like to hear about your tankless water heating success stories.

We love our new tankless hot water heater. I did about a month of research to be sure that it would supply us with “all” our hot water needs. This past weekend, we had four extra adults in our home and we took showers one right after the other and never ran out of hot water! Also, once I set the shower, I never have to move the hot water dial!

EJ Downing, Ypsilanti, MI

After visiting a friend in Europe who has a tankless water heater, I purchased one for my home. Along with the 50% savings on hot water heating bills, I can also take a shower for, well, as long as I want. I love it!

K. Drewiske, Thiensville, WI

I replaced two 50 gallon electric water heaters with a Bosch tankless and my energy bill dropped by 30%. And it wasn’t even in a full month. I researched a few different brands and this was the best buy and the best guarantee. We are very pleased and would recommend Bosch to everybody.

E. Arrand, Elgin, OR

I purchased our first Bosch unit to use in conjunction with our solar unit. It worked perfectly for 17 years. I purchased a new unit with upgraded solar compatibility, and I am looking forward to years and years of trouble free service.

L. Vinquist, Arvada, CO

Submit your stories online at www.bosch-climate.us.
Bosch Controls
We supply a wide selection of advanced controls to ensure that your heating and domestic hot water system delivers high efficiency and reliable heating year after year. Bosch controls give the heating engineer quick and easy access to all functions of the heating system and also allows the integration of multiple heating products.

Buderus Boilers
Our extensive boiler line includes energy efficient cast iron boilers, as well as the very latest aluminum condensing boilers and multiple boiler cascade systems for maximum energy efficiency.

FHP Geothermal Heat Pumps
Our high efficiency water source heat pump systems provide the most flexible and lowest installation costs of virtually any HVAC system. These 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.

Tankless, solar, geothermal and boiler solutions from Bosch
Bosch is committed to reinventing energy efficiency by offering smart tankless, solar, geothermal and boiler products that produce domestic hot water and indoor comfort solutions. Bosch products work alone or together as an integrated system to provide contractors, mechanical engineers and architects the opportunity to customize unique energy efficient systems.

To learn more about these products and Bosch systems visit the Energy Efficiency Home at www.bosch-climate.us
Federal Tax Credit up to 30% of the installed cost*
Now is the time to take advantage of this special opportunity to go tankless and save up to $1500. These incentives, along with state & local utility company rebates, help lower your initial investment and provide ongoing energy savings of up to 50% on water heating costs. *Visit www.dsireusa.org or ask your tax professional about the latest tax credit and rebate opportunities for your state & region.

Bosch Green Initiative “Same-as-Cash” Program
The Bosch Green Initiative program offers homeowners a no interest, no payment financing option to make the move to tankless even easier. Ask your participating contractor which payment terms are available and how you can qualify in an easy 10-minute telephone call.