



# **Bosch Commercial** Water Heating Solutions

Includes the newest Bosch tankless, point-of-use and heat pump water heater products.



**BOSCH**  
Invented for life

# About the Bosch Group



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 125 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 and, 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 creation 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 CO<sub>2</sub> 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-hung boilers, Bosch geothermal heat pumps as well as controls and accessories for every product line.

As illustrated in this catalog and at **[www.bosch-climate.us](http://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.

Visit **[www.125.bosch.com](http://www.125.bosch.com)** to learn even more about Bosch's past, present and future.





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# Why Bosch is the best choice for your business



## **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.



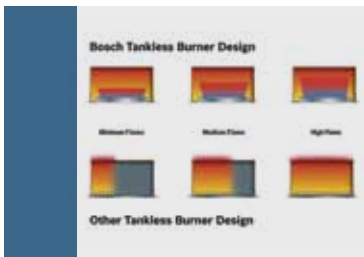
## **Your single source for hot water systems**

For restaurants, hotels, schools, spas and car-washes, you can trust that Bosch has a commercial water heating solution that is perfect for every application. Best of all, Bosch products are designed to seamlessly work together which means you can integrate Bosch products to build a reliable 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. This precision control is especially important in public facilities, schools, hospitals and nursing homes.



## **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.



## **Exclusive: 100% serviceable parts and easy access**

Bosch tankless water heaters offer a spacious cabinet, making the product line 100% serviceable. Our four moving parts versus the competition's 9 or more means 55% fewer parts to wear and tear. Plus, each part can be replaced or serviced individually, which means you never need to replace an entire water heater over one broken part.

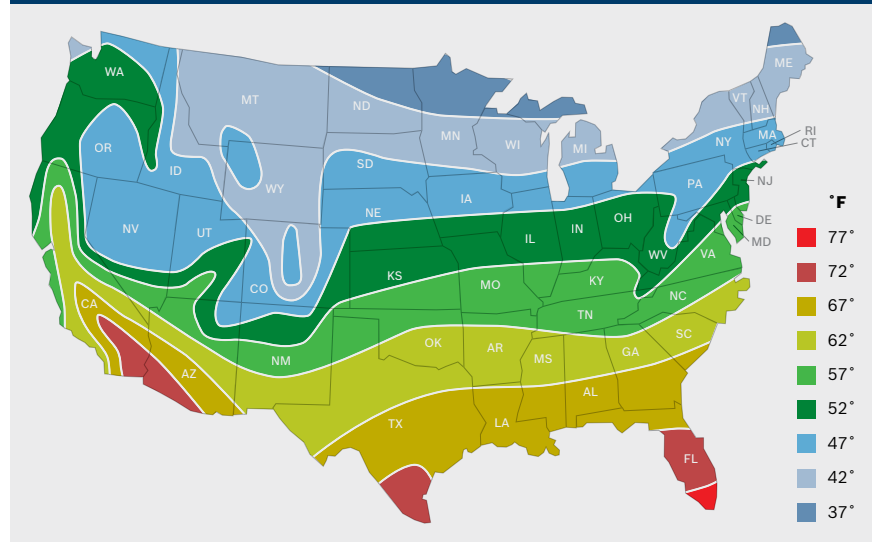
# Commercial product guide



**Bosch has over 125 years of experience** in water heating systems, including 25 years with condensing technology. You can trust Bosch has the best water heating products for all your commercial applications. From high-efficiency gas condensing tankless and zero-emission heat pump electric water heaters to various compact electric models and mini-tanks for point-of-use, rest assured we build something to handle your 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 expand the system to meet your customers needs.

# Product comparison guide

## Ground temperatures















































## Choosing the right Bosch product

There are many factors that go into selecting the right Bosch water heater: the number of people using hot water at the same time, type of fixtures, 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 sports complex in Miami, Florida is considering ten C 1210 ESC models linked in a cascade. The ground water temperature in Miami is 77°F which means this facility can run up to 50 showers at the same time.

| Inlet Temp. (F)   | Summer   |  |  |  |  | Winter  |  |  |  |  |
|-------------------|--|--|--|--|--|---|--|--|--|--|
| Gas Tankless      | 77°  | 72°  | 67°  | 62°  | 57°  | 52°   | 47°  | 42°  | 37°  |  |
| C 1210 ESC        | <br>9.8 GPM | <br>8.8 GPM | <br>8.0 GPM | <br>7.3 GPM | <br>6.7 GPM | <br>6.2 GPM | <br>5.8 GPM | <br>5.4 GPM | <br>5.1 GPM |  |
| C 1050 ES         | <br>8.5 GPM | <br>7.6 GPM | <br>6.9 GPM | <br>6.3 GPM | <br>5.8 GPM | <br>5.4 GPM | <br>5.0 GPM | <br>4.7 GPM | <br>4.4 GPM |  |
| C 950 ES          | <br>7.7 GPM | <br>6.9 GPM | <br>6.2 GPM | <br>5.7 GPM | <br>5.2 GPM | <br>4.9 GPM | <br>4.5 GPM | <br>4.2 GPM | <br>4.0 GPM |  |
| 940 ES/ESO        | <br>7.7 GPM | <br>6.9 GPM | <br>6.2 GPM | <br>5.7 GPM | <br>5.2 GPM | <br>4.9 GPM | <br>4.5 GPM | <br>4.2 GPM | <br>4.0 GPM |  |
| 830 ES            | <br>6.7 GPM | <br>6.0 GPM | <br>5.4 GPM | <br>5.0 GPM | <br>4.6 GPM | <br>4.2 GPM | <br>4.0 GPM | <br>3.7 GPM | <br>3.5 GPM |  |
| 660 EF/EFO        | <br>5.4 GPM | <br>4.8 GPM | <br>4.4 GPM | <br>4.0 GPM | <br>3.7 GPM | <br>3.4 GPM | <br>3.2 GPM | <br>3.0 GPM | <br>2.8 GPM |  |
| Electric Tankless | 77°  | 72°  | 67°  | 62°  | 57°  | 52°   | 47°  | 42°  | 37°  |  |
| RP 27 PT          | <br>4.3 GPM | <br>3.8 GPM | <br>3.5 GPM | <br>3.2 GPM | <br>2.9 GPM | <br>2.7 GPM | <br>2.5 GPM | <br>2.3 GPM | <br>2.2 GPM |  |
| RP 17 PT          | <br>2.7 GPM | <br>2.5 GPM | <br>2.2 GPM | <br>2.0 GPM | <br>1.9 GPM | <br>1.7 GPM | <br>1.6 GPM | <br>1.5 GPM | <br>1.4 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 gas supply. Variation from these parameters may alter actual performance. GPM shown is the hot water flow rate at 120°F Set Point temperature.



# 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 all your commercial applications.



| Commercial Series             |                                 |                                 |                                 |                              |                         |                              |                              |                         |
|-------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------|-------------------------|------------------------------|------------------------------|-------------------------|
| Model/Part Number             | C 1210 ESC NG / C 1210 ESC LP   | C 1050 ES                       | C 950 ES NG / C 950 ES LP       | 940 ES NG / 940 ES LP        | 940 ESO NG / 940 ESO LP | 830 ES NG / 830 ES LP        | 660 EF NG / 660 EF LP        | 660 EFO NG / 660 EFO LP |
| Applications                  | Commercial                      | Commercial                      | Commercial                      | Commercial                   | Commercial              | Commercial                   | Commercial                   | Commercial              |
| Condensing / Non              | Condensing                      | Condensing                      | Condensing                      | Non Condensing               | Non Condensing          | Non Condensing               | Non Condensing               | Non Condensing          |
| Max. Input                    | 225,000                         | 199,000                         | 175,000                         | 199,000                      | 199,000                 | 175,000                      | 140,000                      | 140,000                 |
| Min. Input                    | 25,000                          | 19,900                          | 19,900                          | 19,900                       | 19,900                  | 19,900                       | 20,000                       | 20,000                  |
| Thermal Efficiency            | Up to 98%                       | 92%                             | 93%                             | 83%                          | 83%                     | 83%                          | 83%                          | 83%                     |
| Capacity @ 35F Rise           | 12.1                            | 10.5                            | 9.2                             | 9.4                          | 9.4                     | 8.3                          | 6.6                          | 6.6                     |
| Capacity @ 55F Rise           | 7.7                             | 6.7                             | 5.9                             | 6.0                          | 6.0                     | 5.3                          | 4.2                          | 4.2                     |
| Energy Factor                 | N/A                             | .92                             | .92                             | .83                          | .83                     | .83                          | .82                          | .82                     |
| Activation Flow Rate          | 0.5 GPM                         | 0.5 GPM                         | 0.5 GPM                         | 0.5 GPM                      | 0.5 GPM                 | 0.5 GPM                      | 0.5 GPM                      | 0.5 GPM                 |
| Temp Range (F)                | 100-180                         | 100-140                         | 100-140                         | 100-140                      | 100-140                 | 100-140                      | 100 - 160                    | 100 - 160               |
| Temp Range with High Temp Kit | N/A                             | 100-184                         | 100-184                         | 100-184                      | 100-184                 | 100-184                      | N/A                          | N/A                     |
| Installation Options          | Indoor or Outdoor*              | Indoor or Outdoor*              | Indoor or Outdoor*              | Indoor                       | Outdoor                 | Indoor or Outdoor*           | Indoor                       | Outdoor                 |
| Altitude Tested               | 8,000 ft.                       | 8,000 ft.                       | 8,000 ft.                       | 8,000 ft.                    | 8,000 ft.               | 8,000 ft.                    | 4,500 ft.                    | 4,500 ft.               |
| Venting Options               | PVC, CPVC, ABS, Stainless Steel | PVC, CPVC, ABS, Stainless Steel | PVC, CPVC, ABS, Stainless Steel | Category III Stainless Steel | N/A                     | Category III Stainless Steel | Category III Stainless Steel | N/A                     |
| Vent Maximum Run              | 63'                             | 63'                             | 63'                             | 61.25'                       | N/A                     | 61.25'                       | 45'                          | N/A                     |
| Water Pressure Range          | 30 - 150 psi                    | 30 - 150 psi                    | 30 - 150 psi                    | 30 - 150 psi                 | 30 - 150 psi            | 30 - 150 psi                 | 30 - 150 psi                 | 30 - 150 psi            |
| Water Connections             | ¾" NPT                          | ¾" NPT                          | ¾" NPT                          | ¾" NPT                       | ¾" NPT                  | ¾" NPT                       | ¾" NPT                       | ¾" NPT                  |
| Min. NG Pressure              | 3.5" WC                         | 3.5" WC                         | 3.5" WC                         | 3.5" WC                      | 3.5" WC                 | 3.5" WC                      | 4" WC                        | 4" WC                   |
| Gas Connection                | ¾" NPT                          | ¾" NPT                          | ¾" NPT                          | ¾" NPT                       | ¾" NPT                  | ¾" NPT                       | ¾" NPT                       | ¾" NPT                  |
| Dimensions                    | 17.875 x 30.5 x 11.25           | 17.875 x 30.5 x 11.25           | 17.875 x 30.5 x 11.25           | 17.875 x 30.5 x 11.25        | 17.875 x 35 x 11.25     | 17.875 x 30.5 x 11.25        | 13.8 x 20.5 x 6.7            | 13.8 x 20.5 x 6.7       |
| Weight (Lbs)                  | 88                              | 74                              | 74                              | 67                           | 72                      | 67                           | 36                           | 36                      |
| Heat Exchanger Warranty       | 5 Years                         | 2 Years                         | 2 Years                         | 2 Years                      | 2 Years                 | 2 Years                      | 2 Years                      | 2 Years                 |
| All Other Parts               | 5 Years                         | 5 Years                         | 5 Years                         | 5 Years                      | 5 Years                 | 5 Years                      | 5 Years                      | 5 Years                 |
| Labor Warranty                | 1 Year                          | 1 Year                          | 1 Year                          | 1 Year                       | 1 Year                  | 1 Year                       | 1 Year                       | 1 Year                  |
| ICON KEY:                     |                                 |                                 |                                 |                              |                         |                              |                              |                         |

For additional product information and interactive sizing tools visit [www.bosch-climate.us](http://www.bosch-climate.us)

\* Outdoor installations require optional outdoor kit. **35°F capacity on C 1210 ESC, C 1050 and C 950 ES models is based on installation with a mixing valve to overcome typical pressure loss through the water heater and system.**












\*\*Icon applies only to the C 1210 ESC models. \*\*\*Energy Star icon does not apply to C 1210 ESC models

# Point-of-use solutions

## deliver hot water virtually anywhere

These electric compact tankless and mini-tank water heaters are perfect solutions for a wide range of commercial applications. Ideal for employee breakrooms, public restrooms, janitor closets, salons, medical facilities, veterinary offices 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.



| Commercial Series                            |    |                       |                    |   |                    |                    |   |                    |  |                                |                    |
|--|---|-----------------------|--------------------|---|--------------------|--------------------|---|--------------------|---|--------------------------------|--------------------|
|  | POWERSTREAM PRO Electric Tankless   |                       |                    |   |                    |                    |   |                    | ARISTON Electric Mini-Tank  |                                |                    |
| Model/<br>Part Number                        | RP27PT  | RP17PT                | RP12PT             | RP9P  | RP1P               | RP7P               | RP2P  | RP3P               | GL8Ti   | GL4Ti (U.S.)<br>GL4CA (Canada) | GL2.5Ti            |
| Applications                                 | Commercial Point-of-Use   |                       |                    |   |                    |                    |   |                    |   |                                |                    |
| Output (kW)<br>or Storage<br>Volume (Gal)    | 26.85 kW  | 17.25 kW              | 12 kW              | 9.5 kW  | 9.5 kW             | 7.2 kW             | 6.0 kW  | 3.4 kW             | 7.0 Gal   | 3.85 Gal                       | 2.75 Gal           |
| Capacity @ 45°F Rise                         | 4.0   | 2.6                   | 1.8                | 1.4   | 1.4                | 1.1                | 0.9   | N/A                | N/A   | N/A                            | N/A                |
| Capacity @ 77°F Rise                         | 2.4   | 1.5                   | 1.1                | 0.8   | 0.8                | 0.6                | 0.5   | N/A                | N/A   | N/A                            | N/A                |
| Recovery Rate @<br>90°F Rise (GPH)           | N/A   | N/A                   | N/A                | N/A   | N/A                | N/A                | N/A   | N/A                | 6.8 GPH   | 6.8 GPH                        | 6.8 GPH            |
| Activation<br>Flow Rate                      | 0.8   | 0.6                   | 0.5                | 0.75  | 0.75               | 0.5                | 0.5   | 0.5                | 0   | 0                              | 0                  |
| Water<br>Pressure Range                      | 15 – 150<br>psi   | 15 – 150<br>psi       | 20 – 150<br>psi    | 10 – 150<br>psi   | 10 – 150<br>psi    | 10 – 150<br>psi    | 10 – 150<br>psi   | 10 – 150<br>psi    | 1 – 150<br>psi  | 1 – 150<br>psi                 | 1 – 150<br>psi     |
| Default Temp (F)                             | 122   | 122                   | 122                | 122   | 122                | 122                | 120   | 120                | N/A   | N/A                            | N/A                |
| Thermal<br>Efficiency                        | 97%   | 97%                   | 99%                | 99%   | 99%                | 99%                | 99%   | 99%                | 98%   | 98%                            | 98%                |
| Electrical<br>Requirements<br>(Amps / Volts) | 3x40A 240V  | 2x40A 240V            | 50A 240V           | 35 / 277  | 40 / 240           | 30/ 240            | 25/ 277   | 30 /110            | 12.5 A / 120<br>V   | 12.5 A / 120 V                 | 12.5 A / 120<br>V  |
| Dimensions                                   | 15.5"x<br>15.25"x4.5"   | 15.5"x<br>15.25"x4.5" | 12.25"x<br>6.5"x3" | 12.25"x<br>6.5"x3"  | 12.25"x<br>6.5"x3" | 12.25"x<br>6.5"x3" | 12.25"x<br>6.5"x3"  | 12.25"x<br>6.5"x3" | 17.5"x<br>17.5"x14.5"   | 14"x<br>14"x12.25"             | 14"x<br>14"x10.25" |
| Weight (Lbs)                                 | 22  | 20                    | 5                  | 5   | 5                  | 5                  | 5   | 5                  | 29.5  | 17.3                           | 15.5               |
| Water Fittings                               | ¾" Male<br>NPT  | ¾" Male<br>NPT        | ½" Male<br>NPT     | ½" Male<br>NPT  | ½" Male<br>NPT     | ½" Male<br>NPT     | ½" Male<br>NPT  | ½" Male<br>NPT     | ¾" Male<br>NPT  | ½" Male NPT                    | ½" Male<br>NPT     |
| ICON KEY:                                    |   |                       |                    |    |                    |                    |     |                    |   |                                |                    |

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



# Application and feature icons



## COMMERCIAL

Built for applications requiring a high volume of hot water, such as hotels, apartment buildings, restaurants, medical facilities, government buildings and manufacturing plants.



## INTELLIGENT CASCADING

Models marked with this icon can be linked together (up to 24 units) to satisfy jobs of all sizes.



## RECIRCULATION

Circulates warm water throughout the pipes for instant hot water.



## 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 reliable, back-up source of hot water during cloudy or inclement weather conditions.



## POINT-OF-USE

Compact tankless and mini-tank water heaters for smaller homes, garage apartments, break-rooms, public restrooms, janitor closets, salons, medical and veterinary offices.



## TANK LOADING

Integrates with commercial, industrial and multi-family applications that need to fill and maintain large hot water storage tanks.



## 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.



## ASME CERTIFIED

ASME certified heat exchanger.



**New! Bosch Therm commercial 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 peak use.

## Saves up to 50% on water heating costs

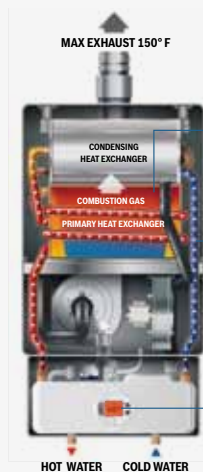
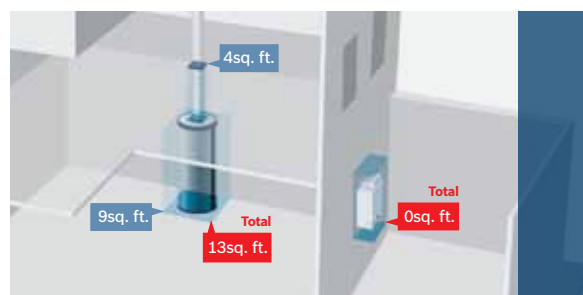
A tank style hot water heater keeps water hot 24 hours a day, whether it is needed or not. Bosch tankless produces hot water only when needed, cutting out needless energy consumption and therefore reducing water heating costs by up to 50%.

## 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 pre-mix combustion process which achieves up to 98% thermal efficiency and reduces NOx emissions ahead of 2012 SCAQMD (14ng/j) regulations.



### Bosch Therm gas water heater

Copper and aluminum heat exchanger rapidly transfers the heat to the water.

Patented, fully modulating burner design generates endless hot water.

On-demand technology uses gas only when you produce hot water.

Built-in digital control panel.



### Gas storage tank water heaters

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

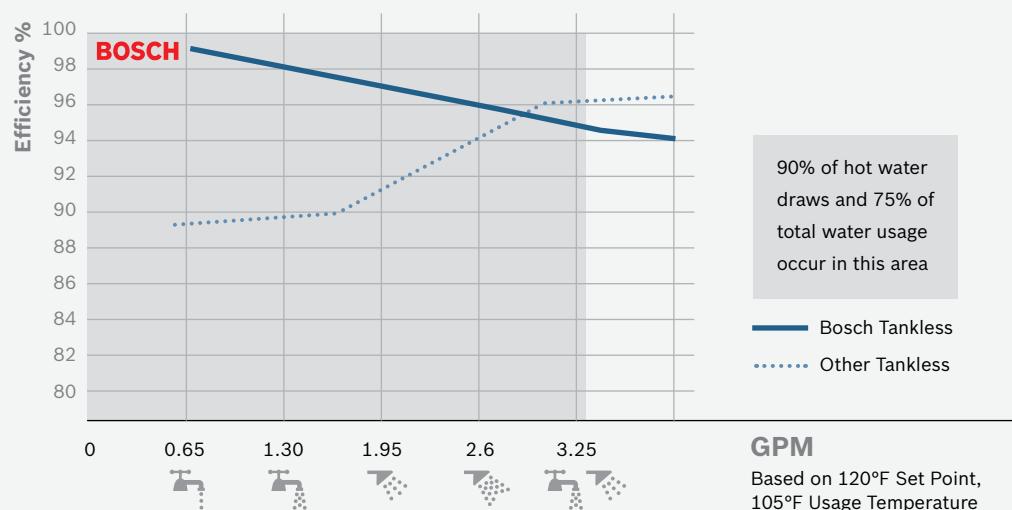
**Bosch condensing tankless water heaters are engineered to operate at up to 98% efficiency when North American hot water demands are most common.**

The Bosch C 1210 ESC, C 1050 and C 950 series 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.



### Benchmark - efficiency results



**Smart Bosch technology delivers up to 98% efficiency when you need it most**



# Bosch Therm condensing gas tankless water heaters



## Bosch Therm C 1210 ESC

- ▶ 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 - 180°F temperature range
- ▶ Intelligent Cascading up to 24 units
- ▶ Altitude tested to 8,000 ft.
- ▶ Vents with PVC



## Bosch Therm C 950 ES

- ▶ 175,000 BTU/Hr Max  
19,900 BTU/Hr Min
- ▶ 93% Thermal efficiency
- ▶ 9.2 gallons per minute capacity
- ▶ Available in NG and LP models
- ▶ Energy Factor: 0.92
- ▶ 100°F - 140°F temperature range
- ▶ 100°F - 184°F with High Temp Kit
- ▶ Intelligent Cascading up to 24 units
- ▶ Altitude tested to 8,000 ft.
- ▶ Vents with PVC



## Bosch Therm C 1050 ES

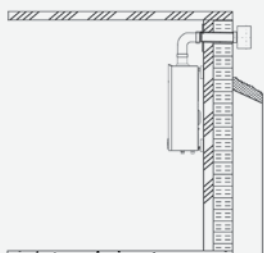
- ▶ 199,000 BTU/Hr Max  
19,900 BTU/Hr Min
- ▶ 92% Thermal efficiency
- ▶ 10.5 gallons per minute capacity
- ▶ Available in NG and LP models
- ▶ Energy Factor: 0.92
- ▶ 100°F - 140°F temperature range
- ▶ 100°F - 184°F with High Temp Kit
- ▶ Intelligent Cascading up to 24 units
- ▶ Altitude tested to 8,000 ft.
- ▶ Vents with PVC



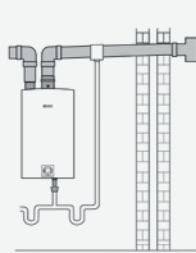
Bosch makes outdoor installations simple and attractive with optional Outdoor Vent Kit, Pipe Cover and Recess Box accessories.

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

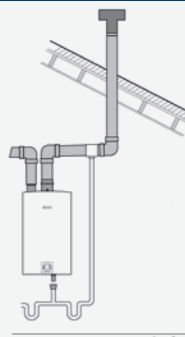
Minimum Vent  
Set-Up Side View



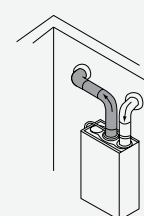
Room Air Intake:  
Horizontal



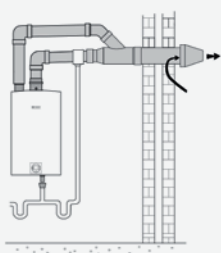
Room Air Intake:  
Vertical



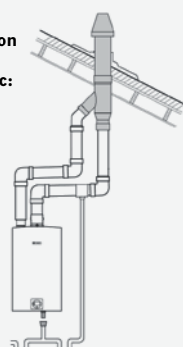
Exterior Air Intake:  
Sealed Combustion



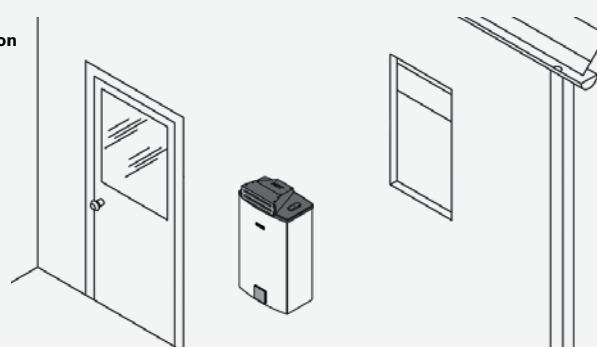
Sealed Combustion:  
Horizontal Concentric



Sealed  
Combustion  
Vertical  
Concentric:



Outdoor  
Installation



Refer to the Product Manual for more vent configurations

# 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
- ▶ 100°F - 184°F with High Temp Kit
- ▶ Intelligent Cascading up to 24 units
- ▶ Altitude tested to 8,000 ft.
- ▶ Vents with 3" or 4" stainless steel



## 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



## Bosch Therm 940 ESO

This outdoor version of the 940ES ships with everything needed for outdoor installation.



## Bosch Therm 660 EFO

This outdoor version of the 660 EF ships with everything needed for outdoor installation.



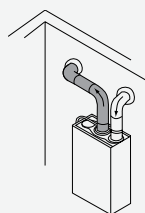
## Bosch Therm 830 ES

- ▶ 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
- ▶ 100°F - 184°F with High Temp Kit
- ▶ Intelligent Cascading up to 24 units
- ▶ Altitude tested to 8,000 ft.
- ▶ Vents with 3" or 4" stainless steel

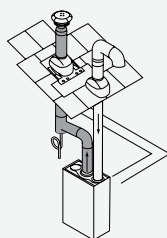


## \*NON-CONDENSING vent configurations

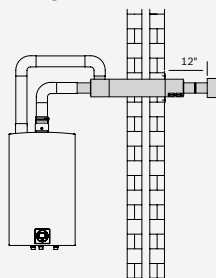
Horizontal twin pipe termination



Vertical twin pipe termination



Concentric venting through the wall



## Attention Bosch Contractors:

\*For more venting options and installation diagrams, download individual Product Manuals and Applications Manual at [www.bosch-climate.us](http://www.bosch-climate.us)



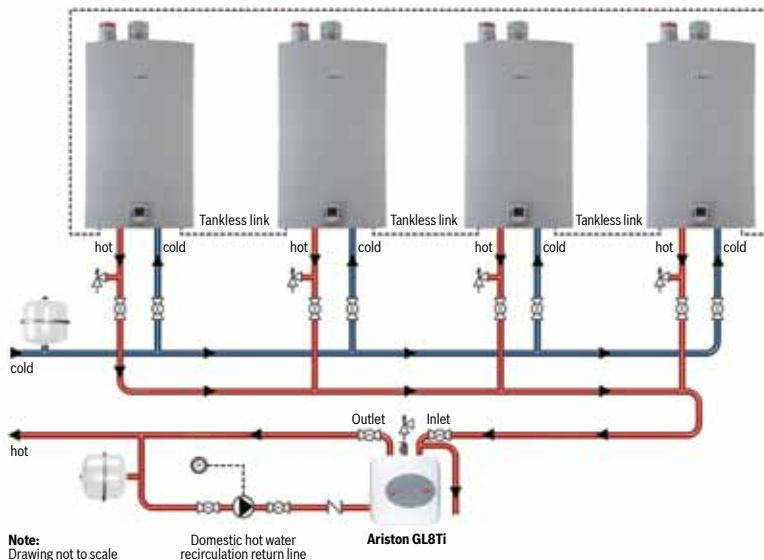
# Recommended commercial systems

## Cascade up to 24 units to satisfy jobs of all sizes

Most Bosch Therm commercial models can be linked together to achieve higher flow rates than with single units. A 24-unit cascade using our Bosch Therm Condensing C 1210 ESC for example, can deliver an incredible 290.4 gallons per minute.



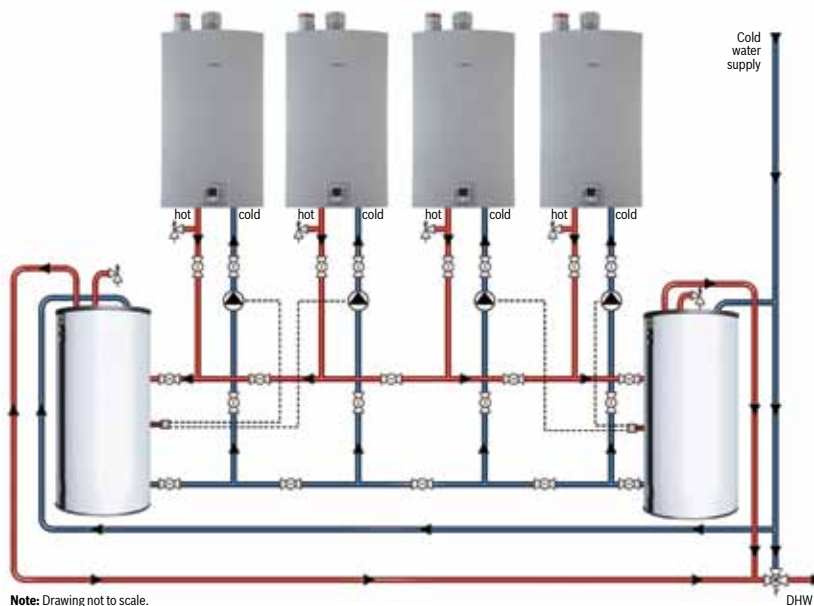
Bosch Therm 940 ES, C 950 ES, C1050 ES, C1210 ESC



## Cascading with electric tank for recirculation

Let the built-in functionality of the Bosch Commercial heaters manage your hot water load. A live storage tank and small circulator pump are all that is needed to handle even your most varied demands. The perfect one pump solution for truly instant hot water.

Bosch Therm 940 ES, C 950 ES, C1050 ES, C1210 ESC



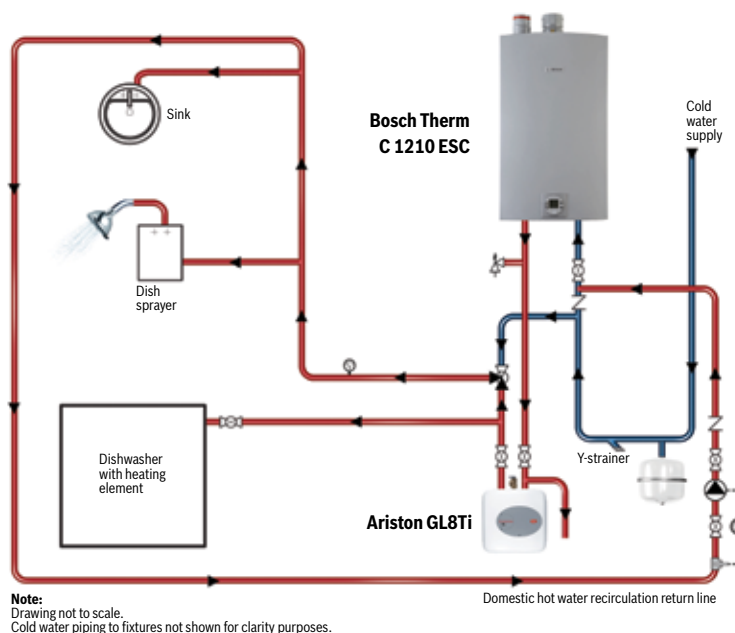
## Advanced tank loading

Multi-pump driven high output system with thermostatic and time controls. Expand this system by increasing the quantity of heaters and/or storage capacity.

## Recommended commercial systems

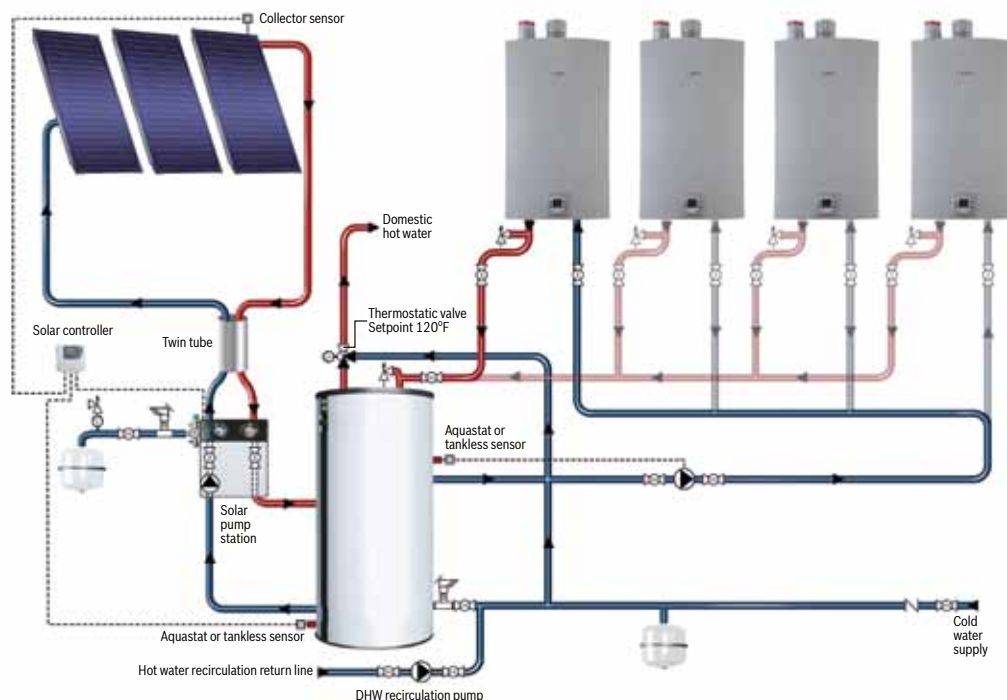
### Commercial kitchen with live storage

This time and temperature controlled design allows instant hot water that never runs out - even in the busiest kitchens. Adjust the size of the live storage capacity for various dishwasher needs. An efficient and proven solution that works perfectly under heavy peak load as it does during prep hours.



### Solar tank loading

Let the sun do some work with renewable benefits. Even if the sun can't heat your total hot water load, you'll still have hundreds of gallons per hour backing it up with this design. Three areas of flexibility or expansion: number of solar collectors, tankless units and size of storage.



# Tankless water heater available accessories

Wireless Remote



Outdoor Kit



Concentric Termination Kit



Intelligent Cascading Kit



High Temperature Kit



## Available Accessories

| Part #     | Description                                    | C 1210<br>ESC | C 1050<br>ES | C 950<br>ES | 940<br>ES | 940<br>ESO | 830<br>ES | 660<br>EF | 660<br>EFO |
|------------|--|---------------|--------------|-------------|-----------|------------|-----------|-----------|------------|
| ESHCK      | Concentric vent/air intake kit stainless steel |               |              |             | ✓         |            | ✓         |           |            |
| 196016     | Concentric termination kit - PVC*              | ✓             | ✓            | ✓           |           |            |           |           |            |
| L2594      | Exhaust/intake bird screen - PVC               | ✓             | ✓            | ✓           |           |            |           |           |            |
| ES VVT     | Vertical vent kit                              |               |              |             | ✓         |            | ✓         |           |            |
| 4TWHVK3SII | Horizontal vent kit                            |               |              |             | ✓         |            | ✓         |           |            |
| 7709003913 | Outdoor kit for Therm                          | ✓             | ✓            | ✓           | ✓         |            | ✓         |           |            |
| TSTAT2     | Wireless remote control                        | ✓             | ✓            | ✓           | ✓         | ✓          | ✓         |           |            |
| 7709003962 | Intelligent cascading kit                      | ✓             | ✓            | ✓           | ✓         | ✓          | ✓         |           |            |
| 8703305356 | External water filter                          | ✓             | ✓            | ✓           | ✓         | ✓          | ✓         |           |            |
| 7736500074 | High temperature kit                           |               | ✓            | ✓           | ✓         | ✓          | ✓         |           |            |
| 196061     | PVC Condensing drain tee†                      | ✓             | ✓            | ✓           |           |            |           |           |            |
| JM-2KIT    | Condensate neutralization cartridge kit        | ✓             | ✓            | ✓           | ✓         | ✓          | ✓         | ✓         | ✓          |
| ES ISO KIT | Isolation valve kit with PRV                   | ✓             | ✓            | ✓           | ✓         | ✓          | ✓         | ✓         | ✓          |
| 7709003956 | BPC Kit Pipe Cover                             |               |              |             |           |            |           | ✓         | ✓          |
| PTPCES     | Pipe Cover W2-3 Silver                         | ✓             | ✓            | ✓           | ✓         | ✓          | ✓         |           |            |
| 7709003957 | BRB Kit Recess Box                             |               |              |             |           |            |           | ✓         | ✓          |
| 7736500043 | Recess Box for 830 ES to C 1210 ESC models     | ✓             | ✓            | ✓           | ✓         | ✓          | ✓         |           |            |
| 7709003958 | Remote controller (US)                         |               |              |             |           |            |           | ✓         | ✓          |
| 7709003959 | Remote controller (CAN)                        |               |              |             |           |            |           | ✓         | ✓          |
| 7709003960 | 10' Length RC cord                             |               |              |             |           |            |           | ✓         | ✓          |
| 7709003961 | 26' Length RC cord                             |               |              |             |           |            |           | ✓         | ✓          |
| 7709003963 | Junction box (unit cover for outdoor)          |               |              |             |           |            |           |           | ✓          |
| 2SVSWB03   | 3" Vent adaptor for 660 EF                     |               |              |             |           |            |           | ✓         |            |

\* Meets ULC S636 Standard

† Also included in the Concentric termination kit (196016)



**Electric tankless and point-of-use solutions**  
deliver hot water virtually anywhere



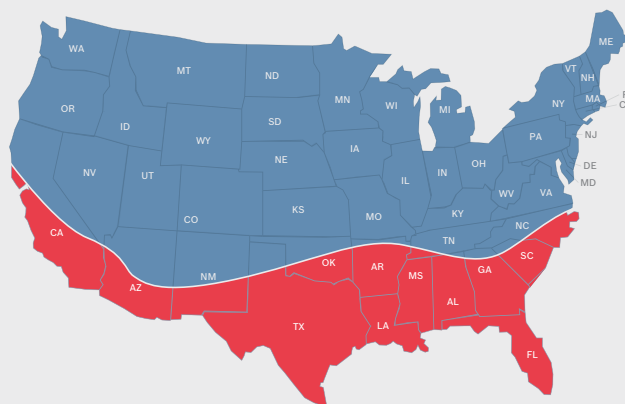
# Powerstream Pro 17 & 27 series

## 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



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

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

## POWERSTREAM PRO RP17PT RP27PT

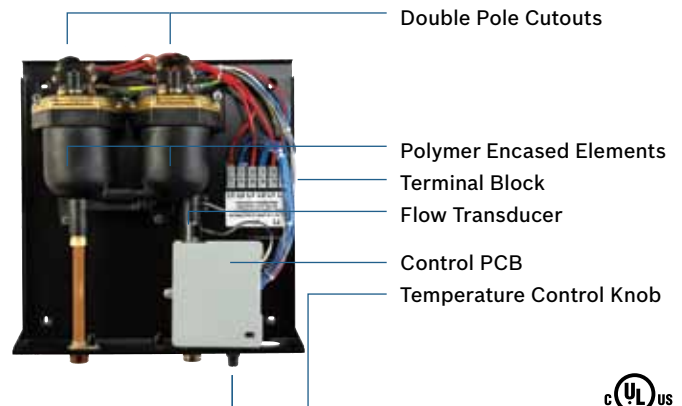


### 2-YEAR WARRANTY

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: break-rooms, restrooms, salons and medical facilities.

**POWERSTREAM PRO**  
tankless electric water heaters

### RP1 - RP12 compact series

2-YEAR WARRANTY



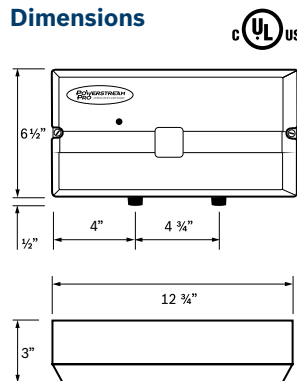
These PowerStream Pro models require hard wiring.

### 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)
- ▶ These units require hard wiring
- ▶ **Available in 6 models to accommodate a wide range of applications**



### Dimensions



### Technical specifications Powerstream Pro RP1 - RP12 series

| Model/<br>Part Number | Wire Size | Voltage          | Amps | High kW <sup>3</sup> | Low kW <sup>3</sup> | Degree rise at flow rates (gpm) <sup>1, 2</sup> |      |      |      | Activation<br>Rate (gpm) |
|-----------------------|-----------|------------------|------|----------------------|---------------------|---|------|------|------|--------------------------|
|                       |           |                  |      |                      |                     | 0.5   | 1.0  | 1.5  | 2.0  |                          |
| RP1P                  | 8GA       | 240 <sup>4</sup> | 40   | 9.50                 | –                   | N/A   | 64°F | 42°F | 32°F | 0.75                     |
|                       |           |                  | 20   | –                    | 4.75                | N/A   | 32°F | 21°F | 16°F |                          |
| RP2P                  | 10GA      | 277              | 22   | 6.00                 | –                   | 81°F  | 42°F | 27°F | N/A  | 0.50                     |
|                       |           |                  | 11   | –                    | 3.00                | 41°F  | 21°F | 14°F | N/A  |                          |
| RP3P                  | 10GA      | 120              | 29   | 3.40                 | –                   | 41°F  | 20°F | N/A  | N/A  | 0.50                     |
| RP7P                  | 10GA      | 240 <sup>4</sup> | 30   | 7.20                 | –                   | N/A   | 48°F | 32°F | 24°F | 0.75                     |
|                       |           |                  | 15   | –                    | 3.60                | N/A   | 24°F | 16°F | 12°F |                          |
| RP9P                  | 8GA       | 277              | 35   | 9.50                 | –                   | N/A   | 64°F | 42°F | 32°F | 0.75                     |
|                       |           |                  | 18   | –                    | 4.75                | N/A   | 32°F | 21°F | 16°F |                          |
| Thermostatic Model    |           |                  |      |                      |                     |   |      |      |      |                          |
| RP12PT                | 6GA       | 240 <sup>5</sup> | 50   | 12.00                | –                   | N/A   | 72°F | 52°F | 42°F | 0.75                     |

<sup>1</sup> gpm = Gallons Per Minute

<sup>2</sup> RP3P includes a 0.5 gpm faucet aerator for optimal performance

<sup>3</sup> High/Low kW settings possible within some settings

<sup>4</sup> These units will operate on 220V at 84% of capacity and on 208V at 75% of capacity

<sup>5</sup> 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.



**GL2.5Ti**  
**GL4Ti**  
**GL4CA**  
**GL8Ti**

8-YEAR WARRANTY

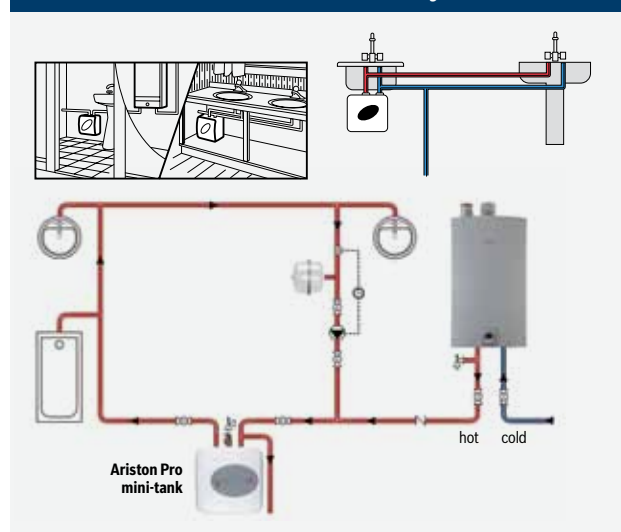


## Features

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



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



## Technical Specifications

| Model #               | GL2.5Ti      | GL4Ti (U.S.)<br>GL4CA (Canada) | GL8Ti          |
|-----------------------|--------------|--------------------------------|----------------|
| Tank Volume           | 2.75 gallons | 3.85 gallons                   | 7 gallons      |
| Dimensions            | 14"x14"x10¼" | 14"x14"x12¼"                   | 17½"x17½"x14½" |
| Voltage               | 120V AC      | 120V AC                        | 120V AC        |
| Amperage              | 12.5 amps    | 12.5 amps                      | 12.5 amps      |
| Wire Size             | Plug-in      | Plug-in                        | Hard-wired     |
| Heating Capacity      | 1500 watts   | 1500 watts                     | 1500 watts     |
| Recovery at 90°F Rise | 6.8 gph      | 6.8 gph                        | 6.8 gph        |
| Temperature Range     | 65°-145°F    | 65°-145°F                      | 65°-145°F      |
| Water Connections     | ½" NPT       | ½" NPT                         | ¾" NPT         |
| Operating Pressure    | 150 psi      | 150 psi                        | 150 psi        |
| Relief Valve          | Installed    | Installed                      | Included       |

gph = gallons per hour

# New! Bosch Compress

## electric heat pump water heater

The 50 gallon capacity Bosch Compress Electric Heat Pump Water Heater is ultra efficient and shares technology similar to an Energy Star® qualified Refrigerator. Rather than taking heat from inside the appliance and moving it outside as a refrigerator does; Bosch heat pump technology takes heat from outside the appliance and uses it to heat the water! Using a specially designed heat pump system, the heat is transferred from the surrounding air to the water stored in a well insulated storage tank, resulting in efficient hot water and zero direct greenhouse gas emissions!

### Bosch Compress electric heat pump water heater



#### Features

- ▶ ZERO Emissions – Clean electric operation and no venting requirements.
- ▶ EASY to read LCD display allows for easy operation and ideal temperature, efficiency and demand settings.
- ▶ SIMPLE installation utilizing standard connections required for traditional electric tank water heaters.
- ▶ 10-Year limited warranty.
- ▶ Ducting option increases efficiency and makes Bosch Compress the quietest unit in the market.

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

# New! Bosch Compress

## electric heat pump water heater

### Savings

Heating domestic hot water is a home's third largest use of energy. With the technology used in a Bosch Compress Electric Heat Pump Water Heater, this can be reduced significantly, saving valuable resources and money.

Compared to a traditional tank water heater, the Bosch Compress Electric Heat Pump Water Heater is twice as effective with savings of \$307 (59% reduction on your water heating costs), making it the smart choice for your water heating needs with an estimated payback of just 3 years!

| Annual Energy Expenditures for Different Electric Water Heater Technologies |       |                          |
|---|-------|--------------------------|
|   |       | Approx. Payback in Years |
| Heat Pump   | \$213 | 3                        |
| Conventional Electric Storage   | \$520 | N/A                      |

Energy cost calculated at \$0.1065 per kWh.

Source: ENERGY STAR® Residential Water Heaters: Final Criteria Analysis, U.S. Department of Energy, April 1, 2008.

### Installation

The ideal installation for a Bosch Compress Electric Heat Pump Water Heater is in a warm unconditioned climate such as an attic, basement or garage with at least 7' x 10' x 10' cubic feet of air space. The efficiency of the Heat Pump is higher in warmer climates, however you can experience savings in all climates. This unit directly replaces a 50 gallon water heater and the energy factor of 2.2 ensures savings.

The Bosch Compress Electric Heat Pump Water Heater also cools and dehumidifies unconditioned air as an extra benefit, saving money and energy on air conditioning. Installing in unconditioned spaces with air temperatures between 45°F - 115°F will yield the highest efficiencies for the Bosch unit. With use of the ducted air option, the Bosch Compress Electric Heat Pump Water Heater uses the energy of the unconditioned air to supply cooler, dehumidified air into the air duct, reducing the overall energy load of your home.

Unit produces condensation that should be routed to a floor drain.

| Technical Specifications        | HP 200-1   |
|---------------------------------|--|
| Part #                          | 7736500041   |
| Storage Tank Capacity           | 50 Gal.  |
| First Hour Delivery             | 58 Gal.  |
| Height                          | 64.5"  |
| Diameter                        | 22.4"  |
| Net Weight                      | 209.4 lbs.   |
| Storage Tank Material           | Enameled Steel   |
| Anode Rod                       | Magnesium  |
| Air Temperature Range           | 45°F to 115°F  |
| Air Duct Connections            | Exhaust Only   |
| Heating Power                   | 1.8 kW   |
| Electric Consumption            | 0.7 kW   |
| Electric Backup Heating Element | 2 x 4 kW   |
| Voltage (Phase / V / Hz)        | 1 / 240 / 60   |
| Electric Connections            | Fixed Wire   |
| Built-In Interface              | LCD  |
| Operation Modes                 | Economic Mode<br>Electric Mode<br>Auto Mode<br>Vacation Mode |
| Hot Water Temp. Range           | 100°F to 140°F   |
| Max. Water Pressure             | 150 PSI  |
| Water Connections               | ¾"   |
| Energy Factor                   | 2.2  |
| Certification                   | UL1995   |
| Condensate Drain                | ¾"   |
| Temp. & Pressure Valve          | Included   |

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





# Bosch system integration reinventing energy efficiency



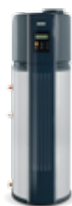
## Bosch Tankless Water Heaters

For restaurants, hotels, schools and other commercial applications, you can trust Bosch has a water heating solution to handle your needs. Every unit delivers the highest efficiency in the market and is built to stringent Bosch quality standards. With a Bosch tankless water heater you will get an endless supply of hot water and can cut your current water heating bill in half.



## Bosch Solar Thermal Systems

Bosch solar hot water solutions bring the first-class technology, innovation, reliability, quality and environmental sustainability that Bosch is known for world-wide, to the next level. These systems are designed for superior energy efficiency. This is especially true when combined with a Bosch high efficiency tankless water heater as a back-up system. There is no better choice than a solar thermal system from Bosch to reduce your energy expenses and your carbon footprint.



## Bosch Heat Pump Water Heater

Bosch combines state-of-the-art heat pump technology with traditional electric water heater storage. The Bosch Compress electric water heater transfers heat from the surrounding air to the well insulated storage tank. The result is efficient hot water and zero direct greenhouse gas emissions.



## 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 Geothermal Heat Pumps

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.



### Tankless, heat pump, solar, geothermal and boiler solutions from Bosch

Bosch is committed to reinventing energy efficiency by offering smart tankless, heat pump, 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 installers, 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](http://www.bosch-climate.us)

# Bosch commercial installations

Bosch would like to hear about your tankless water heating success stories.  
Submit your installation story online at [www.bosch-climate.us](http://www.bosch-climate.us)



## 48 Unit Condominium Complex – Van Nuys, CA

- ▶ **Models Installed and Qty**
  - Bosch C 920 ESC tankless water heaters
  - Four units cascaded
- ▶ **Type of System**
  - Cascading outdoor installation
- ▶ **How many applications run off of it?**
  - 48 two-bedroom units with 48 showers and 96 sinks
- ▶ **Why Tankless?**
  - Property owner wanted to replace a one million BTU Boiler and leaking 500 gallon tank and reduce energy costs
- ▶ **Additional notes on install (space savings, environmental considerations, etc.)**
  - Based on energy savings the owner and plumbing contractor are estimating a short three to five year payback period



## 64-Room Hotel – Franconia, NH

- ▶ **Models Installed and Qty**
  - Bosch C 920 ESC tankless water heaters
  - Four units cascaded
- ▶ **Type of System**
  - Tank loading application with two 100 gallon tanks
- ▶ **How many applications run off of it?**
  - 64 showers, 69 sinks, restaurant sink and dishwasher and two commercial washing machines
- ▶ **Why Tankless?**
  - The hotel needed a more reliable and energy efficient water heating system
- ▶ **Additional notes on install (space savings, environmental considerations, etc.)**
  - This installation includes long concentric vent runs which terminate out through the sidewall (horizontally)





**Bosch Thermotechnology Corp.**

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