ELECTRIC TANKLESS WATER HEATER

THE TANKLESS ADVANTAGE

Accurate - Efficient - Endless Hot Water
THE Hubbell WAY!

Visit us on the web at www.buytankless.com and start saving today!

PROUDLY MADE IN THE USA
Step into the next generation of water heating with...

The Tankless Advantage by Hubbell.

Everyone understands the need to respect the environment...now it is time to take action. Replace your old tank type water heater with the Hubbell Electric Tankless Water Heater thereby lowering your carbon footprint, conserving water and energy, and reducing your hot water energy cost by up to 40%. Get the Tankless Advantage by Hubbell and enjoy endless hot water, longer equipment life, reduced operating cost and at the same time do your part to help the environment.

Save Money and Go Green with The Tankless Advantage by Hubbell

The advantages of eliminating your large storage tank water heater are obvious...gain space, reduce your energy consumption and lower your operating cost. Now Hubbell makes it easier than ever to install this revolutionary device. This compact water heater, not much larger than a phone book, mounts easily to the wall and frees up significant space in your utility room, closet or basement and features an all stainless steel exterior providing a durable, long lasting and corrosion free product. The Hubbell Tankless easily connects to your plumbing with our Shark-bite connections which “push-fit” onto bare 3/4” copper or PEX tubing eliminating the need for soldering at the unit. Switching to Tankless has never been easier or more rewarding. You need an advantage, “The Tankless Advantage” by Hubbell.

Advantages of Electric vs. Gas

- ✔️ No Venting...No Emissions
- ✔️ Consistent and Precise Temperature
- ✔️ Lower Installation Cost
- ✔️ Install in Basement, Attic, or Closet
- ✔️ Lower Maintenance
- ✔️ Highest Efficiency (99%)

Average Annual Operating Costs

<table>
<thead>
<tr>
<th>Fuel Type</th>
<th>Electric Tankless Heater</th>
<th>Natural Gas</th>
<th>Electric</th>
<th>Oil</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$309</strong></td>
<td>11.4¢/kW 2718 kW∙HRS EF 0.99 20 years</td>
<td>$405</td>
<td><strong>$556</strong></td>
<td>$558</td>
<td><strong>$714</strong></td>
</tr>
<tr>
<td><strong>$405</strong></td>
<td>11.4¢/Therm 261 Therm EF 0.575 10 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>$556</strong></td>
<td>11.4¢/Therm 4857 kW∙HRS EF 0.90 14 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>$558</strong></td>
<td>2.85¢/Gallon 196 Gallons EF 0.55 9 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>$714</strong></td>
<td>2.48¢/Gallon 261 Therm EF 0.575 10 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Based upon DOE estimated average daily hot water usage of 64.3 gallons and Federal mandated minimum Energy Factor ratings. Electric Tankless annual consumption based upon 58˚-105˚F rise.

Space Saving

Brand X

Electric Tankless Water Heater

Wall Mounted

Typical 50 Gallon Water Heater

Free Standing

Note: Illustration is drawn to scale
Hubbell 200 Series

The Hubbell 200 series Tankless electric water heater offers 3 element heating and is perfect for homes in the northern part of the country.

Three Models to choose from
- Model 280-3 27 kW
- Model 240-3 24 kW
- Model 220-3 21 kW

Dimensions: 17” x 16” x 3”
Weight: 23 lbs.

Hubbell 100 Series

The Hubbell 100 series Tankless electric water heater offers 2 element heating and is perfect for homes in the southern part of the country.

Four Models to choose from
- Model 180-2 18 kW
- Model 165-2 16 kW
- Model 145-2 14 kW
- Model 110-2 11 kW

Dimensions: 13.5” x 16” x 3”
Weight: 19 lbs.

Minimum Recommended Model

<table>
<thead>
<tr>
<th>Model 280-3 27 kW</th>
<th>Model 240-3 24 kW</th>
<th>Model 220-3 21 kW</th>
<th>Model 180-2 18 kW</th>
<th>Model 165-2 16 kW</th>
<th>Model 145-2 14 kW</th>
<th>Model 110-2 11 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>11kW</td>
<td>14kW</td>
<td>16kW</td>
<td>18kW</td>
<td>21kW</td>
<td>24kW</td>
<td>27kW</td>
</tr>
<tr>
<td>Winter</td>
<td>40°F (4°C)</td>
<td>50°F (10°C)</td>
<td>62°F (13°C)</td>
<td>65°F (15°C)</td>
<td>65°F (18°C)</td>
<td>65°F (32°C)</td>
</tr>
<tr>
<td>40°F (4°C)</td>
<td>1.2</td>
<td>1.5</td>
<td>1.7</td>
<td>1.9</td>
<td>2.2</td>
<td>2.5</td>
</tr>
<tr>
<td>45°F (7°C)</td>
<td>1.3</td>
<td>1.6</td>
<td>1.8</td>
<td>2.0</td>
<td>2.4</td>
<td>2.7</td>
</tr>
<tr>
<td>50°F (10°C)</td>
<td>1.4</td>
<td>1.7</td>
<td>2.0</td>
<td>2.2</td>
<td>2.6</td>
<td>3.0</td>
</tr>
<tr>
<td>55°F (13°C)</td>
<td>1.5</td>
<td>1.9</td>
<td>2.2</td>
<td>2.5</td>
<td>2.9</td>
<td>3.3</td>
</tr>
<tr>
<td>60°F (15°C)</td>
<td>1.7</td>
<td>2.1</td>
<td>2.4</td>
<td>2.7</td>
<td>3.1</td>
<td>3.6</td>
</tr>
<tr>
<td>65°F (18°C)</td>
<td>1.9</td>
<td>2.4</td>
<td>2.7</td>
<td>3.1</td>
<td>3.6</td>
<td>4.1</td>
</tr>
<tr>
<td>70°F (21°C)</td>
<td>2.1</td>
<td>2.7</td>
<td>3.1</td>
<td>3.5</td>
<td>4.1</td>
<td>4.7</td>
</tr>
<tr>
<td>75°F (24°C)</td>
<td>2.5</td>
<td>3.2</td>
<td>3.6</td>
<td>4.1</td>
<td>4.8</td>
<td>5.5</td>
</tr>
<tr>
<td>80°F (27°C)</td>
<td>3.0</td>
<td>3.8</td>
<td>4.4</td>
<td>4.9</td>
<td>5.7</td>
<td>6.6</td>
</tr>
<tr>
<td>85°F (29°C)</td>
<td>3.8</td>
<td>4.8</td>
<td>5.5</td>
<td>6.1</td>
<td>7.2</td>
<td>8.2</td>
</tr>
<tr>
<td>90°F (32°C)</td>
<td>5.0</td>
<td>6.4</td>
<td>7.3</td>
<td>8.2</td>
<td>9.6</td>
<td>10.9</td>
</tr>
</tbody>
</table>

Minimum Recommended Model

Cold Water Inlet Temp: 110-2 145-2 165-2 180-2 220-3 240-3 280-3

Winter: 40°F (4°C), 50°F (10°C), 62°F (13°C), 65°F (15°C), 65°F (18°C), 60°F (25°C), 65°F (18°C), 65°F (15°C), 55°F (13°C), 50°F (10°C), 45°F (7°C), 40°F (4°C), 37°F (3°C), 30°F (0°C), 25°F (-3°C), 20°F (-6°C), 15°F (-9°C), 10°F (-12°C), 5°F (-15°C), 0°F (-18°C), -5°F (-19°C)

Summer: 50°F (10°C), 61°F (15°C), 72°F (22°C), 80°F (27°C), 90°F (32°C), 100°F (40°C), 110°F (45°C), 120°F (50°C), 130°F (55°C), 140°F (60°C), 150°F (65°C), 160°F (70°C), 170°F (75°C), 180°F (80°C), 190°F (85°C), 200°F (90°C), 210°F (95°C), 220°F (100°C)

Average Cold Water Temp.

- Model 280-3 27 kW: 37 °F to 50 °F
- Model 240-3 24 kW: 40 °F to 52 °F
- Model 220-3 21 kW: 50 °F to 61 °F
- Model 180-2 18 kW: 62 °F to 75 °F
- Model 165-2 16 kW: 65 °F to 77 °F
- Model 145-2 14 kW: 65 °F to 77 °F
- Model 110-2 11 kW: 65 °F to 77 °F

Sizing Formula For Average Household

Total Fixture Flow Rate (GPM) x Residential Demand Factor (0.30) = Instantaneous Demand (GPM)

Example

- Dishwasher: 1 x 0.5 = 0.5
- Washing Machine: 1 x 2.0 = 2.0
- Bathroom Sink: 2 x 0.5 = 1.0
- Kitchen Sink: 1 x 1.5 = 1.5
- Shower: 2 x 2.0 = 4.0

Total: 9.0 x 0.30 = 2.7 GPM

Visit www.buytankless.com for current pricing and technical specifications or call 1-877-649-8589
How Does The Hubbell Tankless Water Heater Work?

Hubbell has applied its 88 years of water heating experience and engineered a tankless electric water heater that will provide many years of reliable service in your home. The cold water enters the unit and passes through a flow meter and inlet thermistor which measure the precise flow rate and temperature of the incoming water. The control system uses advanced logic with solid state switching devices to fully modulate the power to the heating elements from 0-100% to provide the most accurate and consistent hot water temperatures in the industry. As the water flows out of the unit a second thermistor makes any necessary adjustments to ensure the Hubbell Tankless delivers accurate and consistent hot water. With numerous control features including the ability to track kW hours consumed, operating cost and hot water usage, the Hubbell Tankless allows the homeowner to maximize their savings and gain the most benefit from their investment.

Electrical Requirements

<table>
<thead>
<tr>
<th>Hubbell Tankless Model No.</th>
<th>110-2</th>
<th>145-2</th>
<th>165-2</th>
<th>180-2</th>
<th>220-3</th>
<th>240-3</th>
<th>280-3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical Requirements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW @ 240V</td>
<td>11</td>
<td>14</td>
<td>16</td>
<td>18</td>
<td>21</td>
<td>24</td>
<td>27</td>
</tr>
<tr>
<td>Amps @ 240V</td>
<td>45.8</td>
<td>58.3</td>
<td>66.7</td>
<td>75.0</td>
<td>87.5</td>
<td>100.0</td>
<td>112.5</td>
</tr>
<tr>
<td>Min. Recommended Amperage to Home</td>
<td>100</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
</tbody>
</table>

Multiple Circuit Breaker Installation (US Only)

<table>
<thead>
<tr>
<th>Minimum Double-Pole Circuit Breaker Size (quantity x amps)</th>
<th>2 x 25</th>
<th>2 x 35</th>
<th>2 x 40</th>
<th>2 x 40</th>
<th>2 x 50</th>
<th>2 x 60</th>
<th>2 x 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Feed Wire Size at 75°C THHN or Equivalent (AWG Copper)</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

Single Circuit Breaker Installation (Canada & US)

<table>
<thead>
<tr>
<th>Minimum Double-Pole Circuit Breaker Size (quantity x amps)</th>
<th>1 x 50</th>
<th>1 x 70</th>
<th>1 x 80</th>
<th>1 x 80</th>
<th>1 x 100</th>
<th>1 x 110</th>
<th>1 x 125</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Feed Wire Size at 75°C THHN or Equivalent (AWG Copper)</td>
<td>8</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

If actual supply voltage is less than 240V, the kW will be reduced, see de-rating factors below:

- If 230 Volt multiply kW by 0.92
- If 220 Volt multiply kW by 0.84
- If 208 Volt multiply kW by 0.75

To solve for flow rate using a derated kW use the formula:

\[
s\text{kW} \times 6.824 \div \text{°FΔT} = \text{GPM}
\]

°FΔT = Change in Temperature (Hot - Cold)
Why Hubbell Tankless?

Gain valuable space when you replace your conventional tank water heater with a Hubbell Electric Tankless Water Heater.

Enjoy unlimited hot water. Simply set the Hubbell Electric Tankless Heater to your comfort temperature setting (typically 105°F or 40°C) and get consistent and endless hot water.

No more inefficient mixing of cold water.

Begin saving up to 40% on the hot water heating portion of your utility bill.

Proven and reliable technology.

Applications

**Whole House** water heating for residential applications including houses, condos, apartments, cabins and cottages.

**Commercial Properties** including hotels, motels, resorts, multi-family houses, and businesses where space is a premium and reduced operating cost is critical.

**Supplemental** water heating for solar or geothermal water heating systems.

**Point of Use** water heating for fixtures that are physically located a long distance from the existing water heater.

**Industrial Process** water heating for process systems requiring continuous or cyclical hot water.

**Radiant Floor** heating to provide heated water for a closed loop heat transfer system.

Technical Specifications

- **Energy Efficiency:** 99.0%
- **Adjustable Temperature Range:** 32 - 140°F (0-60°C)
- **Outer Casing Construction:** Stainless Steel
- **Heating Chamber Construction:** Copper and Bronze
- **Rated Voltage:** 240 Volt, 1 Phase
- **Plumbing Connection:** 3/4”
- **Minimum Flow to Activate Heater:** 0.2 GPM
- **Operating Pressure Range:** 5 - 150 psi
- **Pressure Drop (psi):** 3 psi @ 4 GPM
- **Altitude Limitation:** None
- **Safety Hi-Temp:** 150°F (65°C)
- **Approvals (UL and cUL):** UL 499
  - CAN/CSA-C22.2 No. 64-M91
- **Warranty:** 5 Year Heating Chamber
  - 3 Year Electrical

Efficient • Reliable • Energy Saving

The Hubbell Tankless Electric Water Heater is 99% efficient making it your best option for water heating. Unlike storage tanks which are constantly working to maintain a tank full of 140°F water which is then mixed with cold water when delivered to your fixture, the Hubbell Tankless unit heats water on demand and precisely to your desired temperature (typically 105°F or 40°C). When you replace a tank water heater with a Hubbell Tankless you eliminate 365 days of “stand by heat loss” and save energy by delivering hot water more efficiently to the point of use. The end result is a savings of up to 40% on the water heating portion of your utility bill.
Since 1920 Hubbell has been manufacturing high quality electric water heaters for the residential, commercial, industrial and marine/ naval markets. Today, Hubbell is providing new state of the art “Whole House Electric Tankless Water Heater” technology that is the ‘wave’ of the future. It produces an endless flow of hot water at a consistent and accurate temperature while reducing your hot water heating energy costs by up to 40% when compared to a conventional tank type water heater. Experience the Tankless Advantage today with Hubbell.

Visit us on the web at www.buytankless.com and start saving today!

Contact Hubbell Via Email:
Sales Assistance tankless@hubbellheaters.com
Technical Support tech@hubbellheaters.com

ISO 9001:2000

PROUDLY MADE IN THE USA

The Electric Heater Company
P.O. Box 288
Stratford, CT 06615 USA
Phone: 877-649-8589  Fax: (203) 378-3593

www.buytankless.com

Continuing research results in product improvement; therefore these specifications are subject to change without notice. For the most updated information, please visit us on the web at www.buytankless.com