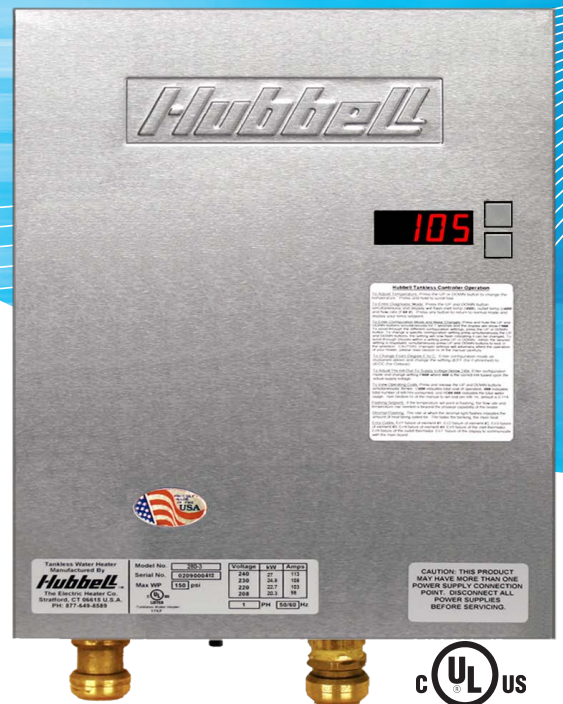


Hubbell™
WATER HEATERS SINCE 1920

ELECTRIC TANKLESS WATER HEATER

**THE
TANKLESS
ADVANTAGE**



Accurate - Efficient - Endless Hot Water
THE Hubbell WAY!

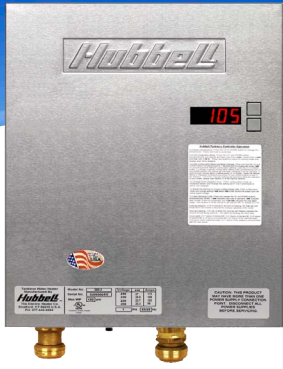
PROUDLY MADE IN THE USA



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

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Affordable & ECO Friendly 99% Efficient



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.

Reliable Hot Water for Today's Families




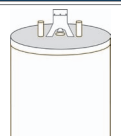

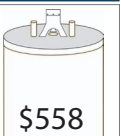
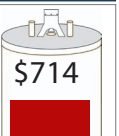
Save Money and Go Green with *The Tankless Advantage* by Hubbell

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.

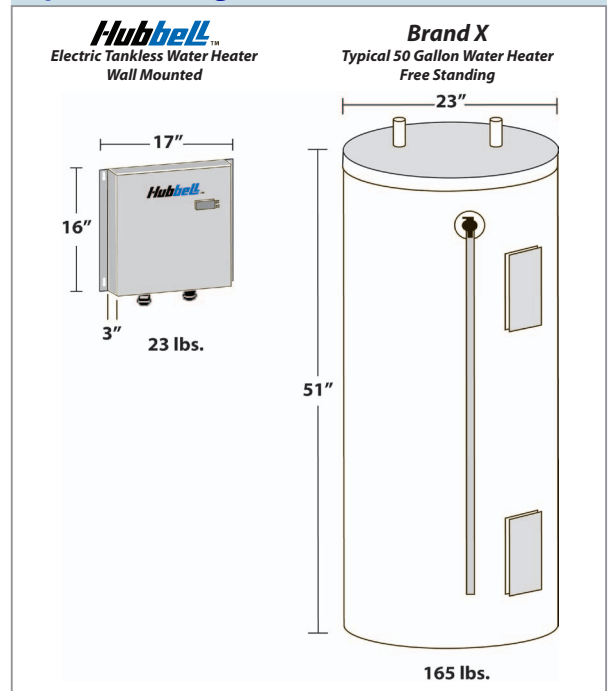
Advantages of Electric vs. Gas

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

Average Annual Operating Costs

Hubbell™ Electric Tankless Heater	Natural Gas	Electric	Oil	Propane
				
\$309	\$405	\$556	\$558	\$714
Energy Factor (EF) EF 0.99	Energy Factor (EF) EF 0.575	Energy Factor (EF) EF 0.90	Energy Factor (EF) EF 0.55	Energy Factor (EF) EF 0.575
Fuel Cost 11.4¢/kW	Fuel Cost \$1.55/Therm	Fuel Cost 11.4¢/kW	Fuel Cost \$2.85/Gallon	Fuel Cost \$2.48/Gallon
Annual Consumption 2718 kW-HRS	Annual Consumption 261 Therm	Annual Consumption 4857 kW-HRS	Annual Consumption 196 Gallons	Annual Consumption 261 Therm
Estimated Operating Life 20 years	Estimated Operating Life 10 years	Estimated Operating Life 14 years	Estimated Operating Life 9 years	Estimated Operating Life 10 years

Space Saving



Based upon DOE estimated average daily hot water usage of 64.3 gallons and Federal mandated minimum Energy Factor of 0.575. Downloaded from www.Serfa.com. All Manuals Search And Download.

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.



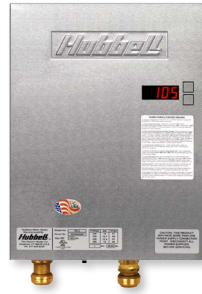
Three Models to choose from

- 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.



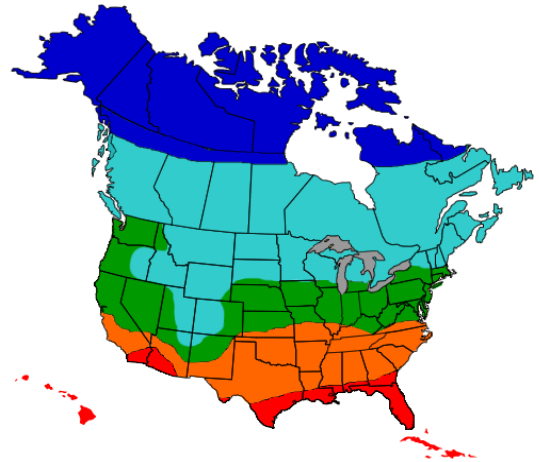
Four Models to choose from

- 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 Average Cold Water Temp.

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



Flow Rate Chart

Determine the flow rate (GPM) of 105°F Hot Water provided by the Hubbell Tankless Electric Water Heater. Based upon 240V

Cold Water Inlet Temp °F	110-2 11kW	145-2 14kW	165-2 16kW	180-2 18kW	220-3 21kW	240-3 24kW	280-3 27kW
40°F	1.2	1.5	1.7	1.9	2.2	2.5	2.8
45°F	1.3	1.6	1.8	2.0	2.4	2.7	3.1
50°F	1.4	1.7	2.0	2.2	2.6	3.0	3.3
55°F	1.5	1.9	2.2	2.5	2.9	3.3	3.7
60°F	1.7	2.1	2.4	2.7	3.2	3.6	4.1
65°F	1.9	2.4	2.7	3.1	3.6	4.1	4.6
70°F	2.1	2.7	3.1	3.5	4.1	4.7	5.3
75°F	2.5	3.2	3.6	4.1	4.8	5.5	6.1
80°F	3.0	3.8	4.4	4.9	5.7	6.6	7.4
85°F	3.8	4.8	5.5	6.1	7.2	8.2	9.2
90°F	5.0	6.4	7.3	8.2	9.6	10.9	12.3

*If simultaneous operation of multiple showers is absolutely necessary, two units may be needed. Installation of two units will likely require electrical service upgrade to the home.

Sizing Formula For Average Household

$$\text{Total Fixture Flow Rate (GPM)} \times \text{Residential Demand Factor (0.30)} = \text{Instantaneous Demand (GPM)}$$

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

$$9.0 \times 0.30 = 2.7 \text{ GPM}$$

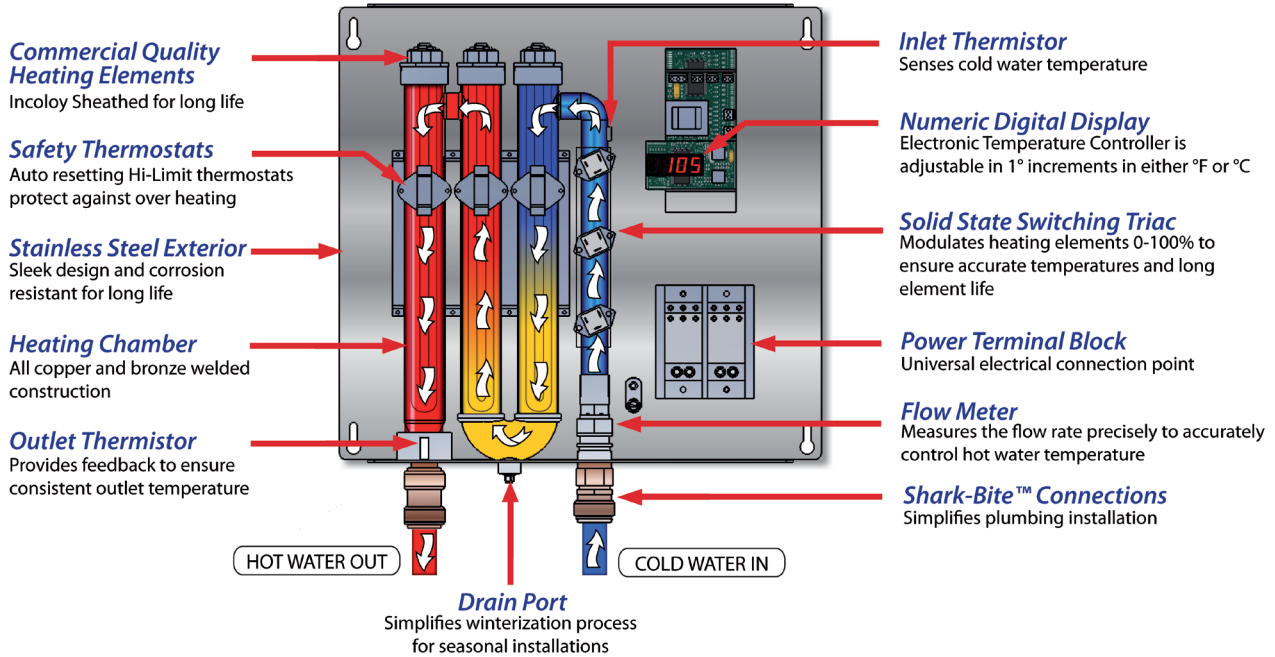
MODEL SELECTIONS:

At 40°F cold water and 2.7 GPM select Model 280-3
At 70°F cold water and 2.7 GPM select Model 145-2



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

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

Multiple Circuit Breaker Installation (US Only)

Minimum Double-Pole Circuit Breaker Size (quantity x amps)	2 x 25	2 x 35	2 x 40	2 x 40	2 x 50	2 x 60	2 x 60
Min. Feed Wire Size at 75°C THHN or Equivalent (AWG Copper)	8	8	8	8	8	6 8	6 8

Single Circuit Breaker Installation (Canada & US)

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

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:

$$\text{_____ kW} \times 6.824 \div \text{_____ } ^\circ\text{F}\Delta\text{T} = \text{_____ GPM}$$

$^\circ\text{F}\Delta\text{T}$ = Change in Temperature (Hot - Cold)

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.

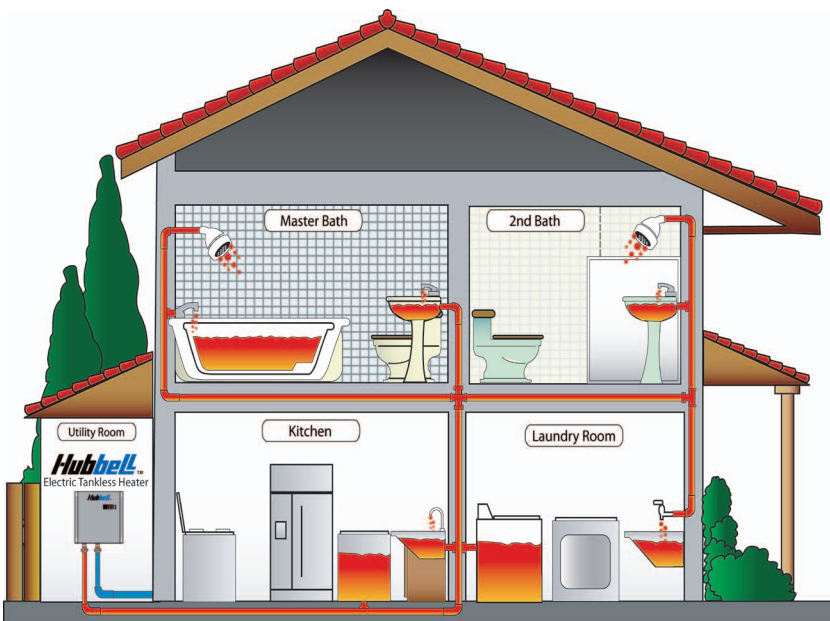
Technical Specifications

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.



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.

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



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