RHEEM® SIZING GUIDE

Tankless Electric Water Heater for Residential Applications

To size and select the appropriate tankless electric water heater, this information is needed:

- Desired outlet temperature
- Inlet water temperature
- Flow rate in gallons per minute (GPM)
- Power available: voltage (VAC) and phase

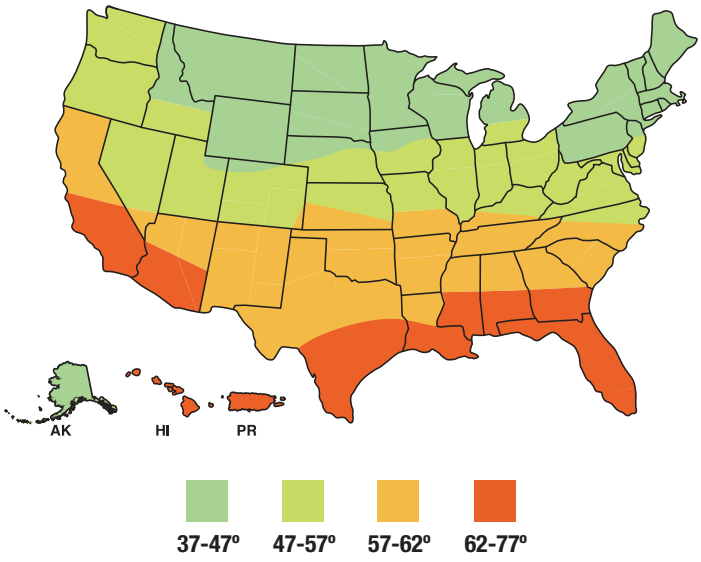
1 **Identify Rise in Temperature:** Found by using the hot water temperature desired (typically 105 °F) and subtracting Ground Water Temperature (see map).

2 **Identify Heating Power Required:** Using the Heating Power Required chart below, find the intersection between Rise in Temperature and Total Gallons Per Minute Demand to identify the kilowatts (kW) needed.
Note: GPM can be found on the faucet aerator. For example, a faucet with a flow rate of 0.5 GPM plus a shower with a flow rate of 1.5 GPM equals a 2.0 GPM total demand. If chart is not applicable, use the following formulas.

Formula to determine heating power required:
For simplified calculation, kW reference is based on a 100% heater efficiency. kW Required = GPM x (temperature rise / 6.83)

3 **Choose Model:** Use the Residential Electric Professional Classic Tankless Water Heaters specification sheet to select a model based on required kilowatts and voltage.

Average Groundwater Temperature Map: US, Canada, and Puerto Rico



Source: US Environmental Protection Agency

These are general temperature zones, actual inlet temperature may be affected by local variations and seasonal changes.

HEATING POWER REQUIRED

Total Gallons Per Minute (GPM) Demand	20°F	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F
6.0	18 kW	27 kW	36 kW	–	–	–	–	–	–	–
5.0	18 kW	24 kW	36 kW	–	–	–	–	–	–	–
4.0	13 kW	18 kW	24 kW	36 kW	36 kW	–	–	–	–	–
3.0	11 kW	18 kW	18 kW	24 kW	27 kW	36 kW	36 kW	–	–	–
2.0	8 kW	11 kW	13 kW	18 kW	18 kW	24 kW	24 kW	27 kW	36 kW	36 kW
1.0	8 kW	8 kW	8 kW	8 kW	11 kW	11 kW	13 kW	18 kW	18 kW	18 kW
0.5	8 kW	8 kW	8 kW	8 kW	8 kW	8 kW	8 kW	8 kW	8 kW	11 kW

Rise In Temperature °F