

# Residential Water Heaters (RWH)

## Certification Program

AHRI's globally recognized and industry respected certification program helps manufacturers sell more products, win bids, and comply with government requirements. Certify products with AHRI and stand out from the crowd.



## Related Standard

Products in the RWH certification program are tested to the Code of Federal Regulations, 10 CFR Part 430.

## Program Scope

- Electric storage water heaters with energy input ratings less than or equal to 12 kilowatts and has a storage capacity of not less than 20 gallons nor more than 120 gallons. Heat Pump Water Heaters that use electricity as the energy source, have a maximum current rating of 24 amperes for an input voltage of 250 volts or less, a storage capacity of not less than 20 gallons nor more than 120 gallons, and are designed to transfer thermal energy from one temperature level to a higher temperature level for the purpose of heating water, including all ancillary equipment such as fans, storage tanks, pumps, or controls necessary for the device to perform its function.
- Gas storage water heaters with energy input ratings less than or equal to 75,000 Btu/h, has a storage capacity of not less than 20 gallons nor greater than 100 gallons, and contains more than one gallon of water per 4,000 Btu per hour of input.
- Gas instantaneous storage water heaters with energy input greater than 50,000 Btu/h but less than 200,000 Btu/h, has a DOE Rated Storage Volume of less than 2 gallons, and contains no more than one gallon of water per 4,000 Btu per hour of input.
- Oil storage water heaters with energy input less than or equal to 105,000 Btu/h, has a storage capacity of 50 gallons or less, and contains more than one gallon of water per 4,000 Btu per hour of input.
- Electric instantaneous water heaters with energy input ratings less than or equal to 12 kilowatts, has a DOE Rated Storage Volume of less than 2 gallons, and contains no more than one gallon of water per 4,000 Btu per hour of input.
- Residential-duty commercial water heaters that meet the following criteria
  - For models requiring electricity, uses single-phase external power supply;
  - Is not designed to provide outlet hot water at temperatures greater than 180 °F; and
  - Is not one of the following:
    - Gas-fired storage water heater with a rated input greater than 105 kBtu/h or a DOE Rated Storage volume greater than 120 gallons.
    - Oil-fired storage water heater with a rated input greater than 140 kBtu/h or a DOE Rated Storage Volume greater than 120 gallons.
    - Electric instantaneous water heater with a rated input greater than 58.6 kW or a DOE Rated Storage Volume greater than 2 gallons.

This program independently verifies  
**Efficiency:** Uniform Energy Factor (UEF)  
**Output:** First Hour Rating, gallons (Maximum GPM)

Visit [www.ahridirectory.org](http://www.ahridirectory.org)

Contact  
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In the Asia Pacific region, please contact  
**Bridge Xue** at [bxue@ahrinet.org](mailto:bxue@ahrinet.org) or 138 1043 2200.



The [AHRI Certification Program](#) is a voluntary program, administered and governed by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI), which ensures that various types of heating, ventilation, air conditioning, refrigeration, and water heating products perform according to manufacturers' published claims. Products that are certified through the AHRI Product Performance Certification Program are continuously tested, at the direction of AHRI, by an independent third-party laboratory, contracted by AHRI, to determine the product's ability to conform to one or more product rating standards or specifications.