

Geothermal Water Source Heat Pumps (WSHP)

Certification Program

AHRI is the world's most trusted source of performance certified heating, cooling, ventilation and commercial refrigeration equipment and components. Only products that have passed AHRI's rigorous third-party testing can display the AHRI Certified mark. Find certified products at www.ahridirectory.org.



Related Standard

Products in the WSHP certification program are tested to ISO 13256-1:1998, Testing and rating for performance – Part 1: *Water-to-air and brine-to-air heat pumps*

Program Scope

All production models of water-to-air and water-to-water heat pumps consisting of ground-water heat pump equipment, water-loop heat pump equipment, and ground-loop heat pump equipment, rated below 39,500 W (135,000 Btuh) at ISO Standard Rating Conditions (Cooling), manufactured for sale in the United States and Canada and as covered by the Standard, shall be included in this program. Each consists of one or more factory-made assemblies which include an indoor conditioning coil with air moving means, compressor(s), and refrigerant-to-water heat exchanger(s), including means to provide both cooling and heating, cooling only, or heating only functions. When such equipment is provided in more than one assembly, the separate assemblies shall be designed to be used together, and the requirements of rating outlined in the Standard are based upon the use of matched assemblies.

Certified Ratings:

The following certification program ratings are verified by test:

- Standard Rating Cooling Capacity, Btuh
- Energy Efficiency Ratio, EER, Btuh/W
- Standard Rating Heating Capacity, Btuh
- Coefficient of Performance (COP)
- Part Load Standard Rating Cooling Capacities, Btuh (if applicable)
- Part Load Energy Efficiency Ratio, EER, Btuh/W (if applicable)
- Part Load Standard Rating Heating Capacities, Btuh (if applicable)
- Part Load COP (if applicable)

Program Highlights

- Only program for WSHP performance verification in the world
- AHRI reports data to the U.S. Department of Energy, the U.S. Federal Trade Commission, Natural Resources Canada, and the California Energy Commission for participants at no additional cost
- AHRI submits data for ENERGY STAR products at no additional cost or effort to participants

Visit www.ahridirectory.org

Contact certification@ahrinet.org for more information.

In the Asia Pacific region, please contact [Bridge Xue](mailto:bxue@ahrinet.org) at 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.