

Liquid to Liquid Brazed and Fusion Bonded Heat Exchangers

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.ahrirectory.org.



Related Standard

Products in the Liquid-to-Liquid Brazed & Fusion Bonded Heat Exchangers certification program are tested to AHRI Standard 400(I-P)/401 (SI), *Performance Rating of Liquid to Liquid Heat Exchangers*.

Program Scope

This program applies to production models of brazed & fusion bonded plate-type heat exchangers, that utilize water on one or both circuits for HVAC applications only.

Program Scope Exclusions

This certification program excludes all of the following:

- Heat exchangers used for phase-change heat transfer;
- Heat exchangers used for non-liquid heat transfer;
- Heat exchangers used for food-based processes;
- Heat exchangers with a capacity greater than 16,000,000 Btu/h; and
- Heat exchangers with a flow rate greater than 1,200 gpm.

HVAC Applications

The purpose of a heat exchanger in a HVAC-system is to directly or indirectly serve either of the heating, cooling or tap water system in any kind of building. Examples of these applications are:

Cooling

- Pressure interceptor
- System isolator between cooling tower and chiller/dry cooler
- Heat exchanger serving in the ice/chilled water storage system
- Swimming pool cooler
- Tap water cooler

Heating

- Pressure interceptor
- System isolator between boiler or heat pump, etc. and secondary heating system for space heating
- Swimming pool heater
- Tap water heater
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District Energy (district cooling/district heating)

- Heat exchanger in energy transfer station
- Heat exchanger in free cooling application using a free cooling sink such as river water, lake water etc. to cool the district cooling water
- Heat exchanger in free heating application using a hot stream from any source to heat district heating water

Certified Ratings

- Total heat transfer rate, Btu/h [W]
- Hot stream pressure drop, psig [kPa]
- Cold stream pressure drop, psig [kPa]

Visit www.ahrirectory.org

Contact
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In the Asia Pacific region, please contact
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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.