

Air-Cooled Water Chilling Packages Using Vapor Compression Cycle (ACCL)

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.



Program Highlights

- Program participants based in 14 countries across 4 continents
- Published performance certified across the entire full-load operating map and IPLV of air-cooled chillers
- Largest tonnage scope in the world, covering 0 to 600 tons
- Foremost globally recognized standards for chillers

AHRI is now accredited by COFRAC to certify performance to EN Standards 14511 and 14825 at no additional cost to program participants.

Related Standard

Products in the ACCL certification program are tested to AHRI Standard 550/590 (I-P), *Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle* or AHRI 551/591 (SI), *Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle*.

Tested and Certified Ratings

This Program tests and certifies Air-Cooled Water-Chilling Packages Ratings as defined in this Section.

Tested Cooling Ratings. AHRI tests published ratings to AHRI Standards 550/590 (I-P) and 551/591 (SI) and EN Standards 14511 and 14825.

AHRI Standards 550/590 (I-P) and 551/591 (SI) Ratings. The following ratings are verified by test in accordance with AHRI Standards 550/590 (I-P) and 551/591 (SI):

- Full-load refrigeration capacity;
- Cooling efficiency;
- Evaporator water pressure; and
- Integrated Part-load Value (IPLV.IP or IPLV.SI)

Units that are not able to operate at Standard Rating Conditions shall be tested at the unit design conditions. Additionally, AHRI shall select a random point within each unit's published full-load AHRI Certified operating map. This random operating point (5th point) shall be selected to allow AHRI to certify the published operating map conditions at which the unit can operate.

EN Standards 14511 and 14825 Ratings. For units certified to EN Standards

14511 and 14825, The following ratings are verified by test at EN Standard Rating Conditions in accordance with EN Standards 14511 and 14825:

- Full-load refrigeration capacity;
- Cooling efficiency;
- Evaporator water pressure drop; and
- Seasonal Energy Efficiency Ratio (SEER).

Certified Cooling Ratings. AHRI certifies published ratings to AHRI Standards 550/590 (I-P) and 551/591 (SI) and EN Standards 14511 and 14825.

AHRI Standards 550/590 (I-P) and 551/591 (SI) Ratings. AHRI certifies the following published operating map ratings in accordance with AHRI Standards 550/590 (I-P) and 551/591 (SI):

- Full-load refrigeration capacity operating map (100% of rated full-load capacity);
- Cooling efficiency operating map (100% of rated full-load capacity);
- Evaporator water pressure drop operating map (100% of rated full-load capacity); and
- Integrated Part-load Value (IPLV.IP and IPLV.SI).

IPLV.IP and IPLV.SI are not certified for units which are not able to operate at Standard Rating Conditions. NPLV.IP and NPLV.SI are not certified metrics and not subject to the requirements of this Program.

EN Standards 14511 and 14825 Ratings. For units certified to EN Standards 14511 and 14825, AHRI certifies the following published EN Standard Rating Condition ratings in accordance with EN Standards 14511 and 14825:

- Full-load refrigeration capacity;
- Cooling efficiency;
- Evaporator water pressure drop; and
- Seasonal Energy Efficiency Ratio (SEER)