

# Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle (WCCL)

## 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 WCCL 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

**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% to 25% of rated full-load capacity);
- Evaporator and condenser water pressure drop operating map (100% to 25% of rated full-load capacity);
- Integrated Part-load Value (IPLV.IP and IPLV.SI); and
- Non-Standard Part-load Value (NPLV.IP and NPLV.SI).

**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 and condenser water pressure drop; and
- Seasonal Energy Efficiency Ratio (SEER).

**Certified Heating Ratings.** AHRI certifies published ratings to AHRI Standards 550/590 (I-P) and 551/591 (SI).

**AHRI Standards 550/590 (I-P) and 551/591 (SI) Ratings.** AHRI certifies the following published ratings at Standard Rating Conditions as defined in Table 1 of AHRI Standards 550/590 (I-P) and 551/591 (SI) which the Participant's Primary Catalog / Selection Rating Application claims as AHRI Certified:

- Full-load heating capacity;
- Full-load heating coefficient of performance;
- Full-load heat recovery coefficient of performance; and
- Evaporator and condenser water pressure drop.

**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 heating capacity;
- Full-load heating coefficient of performance;
- Evaporator and condenser water pressure drop; and
- Seasonal Efficiency (SCOP).

**Tested Cooling and Heating Ratings.** Published ratings of units selected for testing that AHRI Certifies in both Water-Chilling and Heat Pump Water-Heating modes shall be verified as specified in the above Tested Cooling Ratings and Tested Heating Ratings sections during the same scheduled test.

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



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

Contact [certification@ahrinet.org](mailto:certification@ahrinet.org) for more information.

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