



AIR-CONDITIONING, HEATING,
& REFRIGERATION INSTITUTE

we make life better®

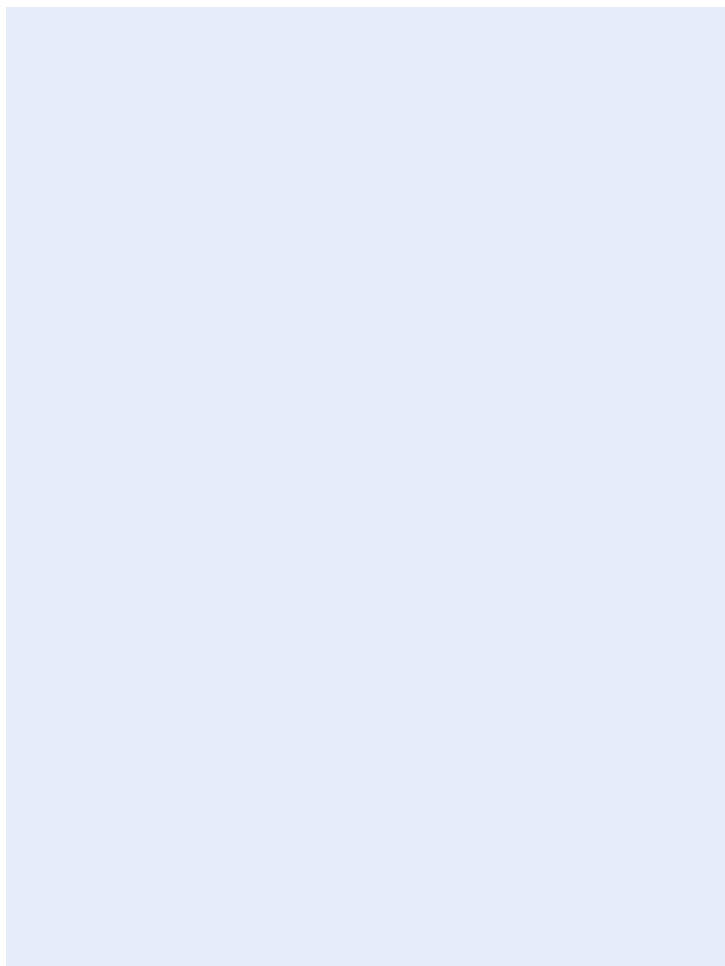
Certification Programs, Standards, and Guidelines

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Certification Programs, Standards, and Guidelines

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Certification Programs

Active Chilled Beams (ACB)

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AHRI Standard 550/590 and 551/591

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Automatic Commercial Ice-Makers and Ice Storage Bins (ACIM)

AHRI Standard 810/811 and 820/821

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AHRI Standard 1350/1351

Central Station Air-Handling Unit Supply Fans (AHU)

AHRI Standard 430/431

Commercial Boilers (CBLR)

AHRI Standard 1500

Commercial Finned Tube Radiation (CFTR)

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Commercial Refrigerated Display Merchandise and Storage Cabinets (CRM)

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Datacom Cooling (DCOM)

AHRI Standard 1360/1361

ASHRAE Standard 127-2007

Direct Heating (DHE)

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Dedicated Outdoor Air System Units (DOAS)

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Forced Circulation Air-Cooling and Air-Heating Coils (ACHC)

AHRI Standard 410

Geothermal—Direct Geoexchange Heat Pumps (DGX)

AHRI Standard 870/871

Geothermal—Water-Source Heat Pumps (GWSHP)

ISO 13256-1: 1998

Heat Pump Pool Heaters (HPPH)

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AHRI Standard 820/821

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Standard GAMA Performance of Indirect-Fired
Water Heaters

Indoor Pool Dehumidifiers (IPD)

AHRI Standard 910/911

Liquid-to-Liquid Brazed & Fusion Bonded Plate Heat Exchangers (LLBF)

AHRI Standard 400/401

Liquid-to-Liquid Heat Exchangers (LLHE)

AHRI Standard 400/401

Non-Condensable Gas Purge Equipment for Use with Low Pressure Centrifugal Liquid Chillers (PRGE)

AHRI Standard 580

Packaged Terminal Air Conditioners (PTAC)

AHRI Standard 310/380

Packaged Terminal Heat Pumps (PTHP)

AHRI Standard 310/380

Reclaimed Refrigerant (RECL)

AHRI Standard 700

Refrigerant Recovery/Recycling Equipment (RRRE)

AHRI Standard 740

Refrigerant Testing Laboratory (RTL)

AHRI Standard 700



Residential Boilers (RBLR)

Standard DOE 10 CFR Part 430

Residential Furnaces (RFRN)

Standard DOE 10 CFR Part 430

Residential Water Heaters (RWH)

Standard DOE 10 CFR Part 430

Room Fan-Coils (RFC)

AHRI Standard 440

Single Packaged Vertical Units (SPVU)

AHRI Standard 390

Transport Refrigeration (TR)

AHRI Standard 1110/1111

Unit Coolers (UC)

AHRI Standard 420/421

Unit Ventilators (UVNT)

AHRI Standard 840/841

Unitary Air Conditioner Equipment (includes Mix-Match Coils) (USAC)

AHRI Standard 210/240

Unitary Heat Pump Equipment (includes Mix-Match Coils) (USHP)

AHRI Standard 210/240



Unitary Large Equipment (ULE)

AHRI Standard 340/360/365/366

Variable Air Volume Terminals (VAVT)

AHRI Standard 880/885

Variable Frequency Drives (VFD)

AHRI Standard 1210/1211

Variable Refrigerant Flow Multi-Split Air Conditioners and Heat Pumps (VRF)

ANSI/AHRI Standard 1230

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

AHRI Standard 550/590 and 551/591

Standards

AHRI 110: Air-Conditioning, Heating and Refrigerating Equipment Nameplate Voltages

AHRI 210/240: Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment

AHRI 211-241-0B1B-2021 (SI): Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment

AHRI 220: Reverberation Room Qualification and Testing Procedures for Determining Sound Power of HVAC Equipment

AHRI 230: Sound Intensity Testing Procedures for Determining Sound Power of HVAC Equipment

AHRI 250: Performance and Calibration of Reference Sound Sources

AHRI 260 (I-P) and 261 (SI): Sound Rating of Ducted Air Moving and Conditioning Equipment

AHRI 270: Sound Rating of Outdoor Unitary Equipment

AHRI 275: Application of Outdoor Unitary Equipment A-weighted Sound Power Ratings

AHRI 280: Requirements for the Qualification of Reverberation Rooms in the 63Hz Octave Band

AHRI 300: Sound Rating and Sound Transmission Loss of Packaged Terminal Equipment (Reaffirmed May 2021)

AHRI 310/380: Standard for Packaged Terminal Air-Conditioners and Heat Pumps (CSA-C744-17)

AHRI 340/360: Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment

AHRI 350: Sound Rating of Non-Ducted Indoor Air-Conditioning and Heat Pump Equipment (Reaffirmed May 2021)

AHRI 365 (I-P) and 366 (SI): Commercial and Industrial Unitary Air-Conditioning Condensing Units

AHRI 370: Sound Performance Rating of Large Air-Cooled Outdoor Refrigerating and Air-Conditioning Equipment

AHRI 390: Performance Rating of Single Package Vertical Air-Conditioners and Heat Pumps

AHRI 400 (I-P) and 401 (SI): Performance Rating of Liquid to Liquid Heat Exchangers

AHRI 410 with Addenda 1, 2 and 3: Forced-Circulation Air-Cooling and Air-Heating Coils

AHRI 420 (I-P) and 421 (SI): Performance Rating of Forced-Circulation Free-Delivery Unit Coolers for Refrigeration

AHRI 430 (I-P) and 431 (SI): Performance Rating of Central Station Air-handling Unit Supply Fans

AHRI 440/441: Performance Rating of Room Fan-Coils

AHRI 450: Water-Cooled Refrigerant Condensers, Remote Type

AHRI 460: Performance Rating of Remote Mechanical-Draft Air-Cooled Refrigerant Condensers

AHRI 470: Performance Rating of Desuperheater/Water Heaters

AHRI 480: Remote Type Refrigerant-Cooled Liquid Coolers

AHRI 490 (I-P) and 491 (SI): Remote Mechanical-Draft Evaporative Refrigerant Condensers

AHRI 495: Performance Rating of Refrigerant Liquid Receivers

AHRI 510: Performance Rating of Positive Displacement Ammonia Compressors and Compressor Units

AHRI 520: Performance Rating of Positive Displacement Condensing Units

AHRI 530: Rating of Sound and Vibration for Refrigerant Compressors

AHRI 540: Performance Rating of Positive Displacement Refrigerant Compressors and Compressor Units

AHRI 545: Performance Rating of Modulating Positive Displacement Refrigerant Compressors

AHRI 550/590 (I-P): Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle

AHRI 551/591 (SI): Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle

AHRI 560: Absorption Water Chilling and Water Heating Packages

AHRI 570 (I-P) and 571 (SI): Performance Rating of Positive Displacement Carbon Dioxide Refrigerant Compressors and Compressor Units

AHRI 575: Method of Measuring Machinery Sound Within an Equipment Space

AHRI 580: Non-Condensable Gas Purge Equipment For Use With Low Pressure Centrifugal Liquid Chillers

AHRI 610 (I-P) and 611 (SI): Performance Rating of Central System Humidifiers for Residential Applications

AHRI 620 (I-P) and 621 (SI): Performance Rating of Self-Contained Humidifiers for Residential Applications

AHRI 640 (I-P) and 641 (SI): Performance Rating of Commercial and Industrial Humidifiers

AHRI 680 (I-P) and 681 (SI): Performance Rating
Residential Air Filter Equipment

AHRI 700: Specifications for Refrigerants

AHRI 700C: Appendix C to AHRI Standard 700-
Analytical Procedures for AHRI Standard 700

AHRI 700D: Appendix D Gas Chromatograms for
AHRI Standard 700-Informative

AHRI 710 (I-P) and 711 (SI): Performance Rating of
Liquid-Line Driers

AHRI 715 (I-P) and 716 (SI): Performance Rating of
Liquid-Line Filters

AHRI 730 (I-P) and 731 (SI): Flow Capacity Rating of
Suction-Line Filters and Suction-Line Filter-Driers

AHRI 740: Performance Rating of Refrigerant
Recovery Equipment and Recovery/Recycling
Equipment

AHRI 750 (I-P) and 751 (SI): Performance Rating of
Thermostatic Refrigerant Expansion Valves

AHRI 760 (I-P) and 761 (SI): Performance Rating of
Solenoid Valves for Use with Volatile Refrigerants

AHRI 770 (I-P) and 771 (SI): Performance Rating of Refrigerant Pressure Regulating Valves

AHRI 810 (I-P) and 811 (SI): Performance Rating of Automatic Commercial Ice-Makers

AHRI 820 (I-P) and 821 (SI) with Addendum 1: Performance Rating of Ice Storage Bins

AHRI 840 (I-P) and 841 (SI): Performance Rating of Unit Ventilators

AHRI 850 (I-P) and 851 (SI): Performance Rating of Commercial and Industrial Air Filter Equipment

AHRI 870 (I-P) and 871 (SI): Performance Rating of Direct Geothermal Heat Pumps

AHRI 880 (I-P) and 881 (SI): Performance Rating of Air Terminals

AHRI 885 with Addendum 1: Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets

AHRI 900 (I-P) and 901 (SI): Performance Rating of Thermal Storage Equipment Used for Cooling

AHRI 910 (I-P) and 911 (SI): Performance Rating of Indoor Pool Dehumidifiers

AHRI 920 (I-P) and 921 (SI) with Addendum 1: Performance Rating of DX-Dedicated Outdoor Air System Units

AHRI 1060 (I-P) and 1061 (SI): Performance Rating of Air-to-Air Exchangers for Energy Recovery Ventilation Equipment

AHRI 1110 (I-P) and 1111 (SI): Performance Rating of Mechanical Transport Refrigeration Units

AHRI 1120: (Reaffirmed May 2021) Acoustical Test Methods and Sound Power Rating Procedures for Transport Refrigeration Equipment

AHRI 1140 (Withdrawn 2021): Sound Quality Evaluation Procedures For Air-Conditioning and Refrigeration Equipment

AHRI 1160 (I-P): with Addendum 1 and 1161 (SI): Performance Rating of Heat Pump Pool Heaters

AHRI 1200 (I-P) and 1201 (SI): Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets

AHRI 1210 (I-P) and 1211 (SI): Performance Rating of Variable Frequency Drives

AHRI 1230: Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air-Conditioning and Heat Pump Equipment

AHRI 1240 (I-P) and 1241 (SI): Performance Rating of Active Chilled Beams

AHRI 1250 (I-P) and 1251 (SI): Performance Rating of Walk-In Coolers and Freezers

AHRI 1260 (I-P) and 1261 (SI): Performance Rating of Portable Flue Gas Combustion Analyzers

AHRI 1270 (I-P) and 1271 (SI): Requirements for Seismic Qualification of HVACR Equipment

AHRI 1280: Sound Power Rating of Water-Cooled Chillers

AHRI 1290 (I-P) and 1291 (SI): Performance Rating of Zone Dampers

AHRI 1300 (I-P) and 1301 (SI): Performance Rating of Commercial Heat Pump Water Heaters

AHRI 1310: Wind Load Design of HVACR Equipment

AHRI 1320 (I-P) and 1321 (SI): Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets for Use With Secondary Refrigerants

AHRI 1330 (I-P): Performance Rating for Radiant Output of Gas Fired Infrared Heaters

AHRI 1350 (I-P) and 1351 (SI) with Addendum 1: Mechanical Performance Rating of Central Station Air-handling Unit Casings

AHRI 1360 (I-P) and 1361 (SI): Performance Rating of Computer and Data Processing Room Air Conditioners

AHRI 1370 (I-P) and 1371 (SI): Performance Rating of Electronic Expansion Valves

AHRI 1380 (I-P): Demand Response through Variable Capacity HVAC Systems in Residential and Small Commercial Applications

AHRI 1410: Performance Rating of Commercial Finned Tube Radiation

AHRI 1500: Performance Rating of Commercial Space Heating Boilers

ASHRAE's Standard 90.1: Energy Standard for Buildings Except Low-Rise Residential Buildings

ASHRAE/ANSI/AHRI/ISO Standard 13256-1&2:
Water-to-Air and Brine-to-Air Heat Pumps —
Testing and Rating for Performance

Water-to-Water and Brine-to-Water Heat Pumps—
Testing and Rating for Performance

CAN/ANSI/AHRI 1330: Gaz (E) Performance Rating
for Radiant Output of Gas Fired Infrared Heaters

1 CAN/ANSI/AHRI 1330: (F) Détermination
des Caractéristiques de Performance des
Motocompresseurs et des Compresseurs
Frigorifiques Volumétriques

Many AHRI standards are approved by the American National Standards Institute (ANSI).

Please visit our website www.ahrinet.org
for more information on the latest standards approved by ANSI.

Guidelines

AHRI Guideline B: Roof Mounted Outdoor Air-Conditioner Installations (1997)

AHRI Guideline E: Fouling Factors: A Survey of Their Application in Today's Air-Conditioning and Refrigeration Industry (1997)

AHRI Guideline F (I-P and SI): Selection, Installation and Servicing of Residential Humidifiers (2015)

AHRI Guideline G (I-P and SI): Mechanical Balance of Impellers for Fans (2016)

AHRI Guideline K: Containers for Recovered Non-Flammable Fluorocarbon Refrigerants (2015)

AHRI Guideline M: Unique Fittings and Service Ports for Flammable Refrigerant Use (2020)

AHRI Guideline N: Assignment of Refrigerant Container Colors (2017)

AHRI Guideline Q: Content Recovery and Proper Recycling of Refrigerant Cylinders (2016)

AHRI Guideline T (I-P and SI): Specifying the Performance of Cool Thermal Storage Equipment (2017)

AHRI Guideline V (I-P and SI): Calculating the Efficiency of Energy Recovery Ventilation and Its Effect on Efficiency and Sizing of Building HVAC Systems (2011)

AHRI Guideline W (I-P and SI): Selecting, Sizing, & Specifying Packaged Air-To-Air Energy Recovery Ventilation Equipment (2014)

AHRI Guideline X: Induced Draft Furnace Heat Exchanger Inspection (2009)

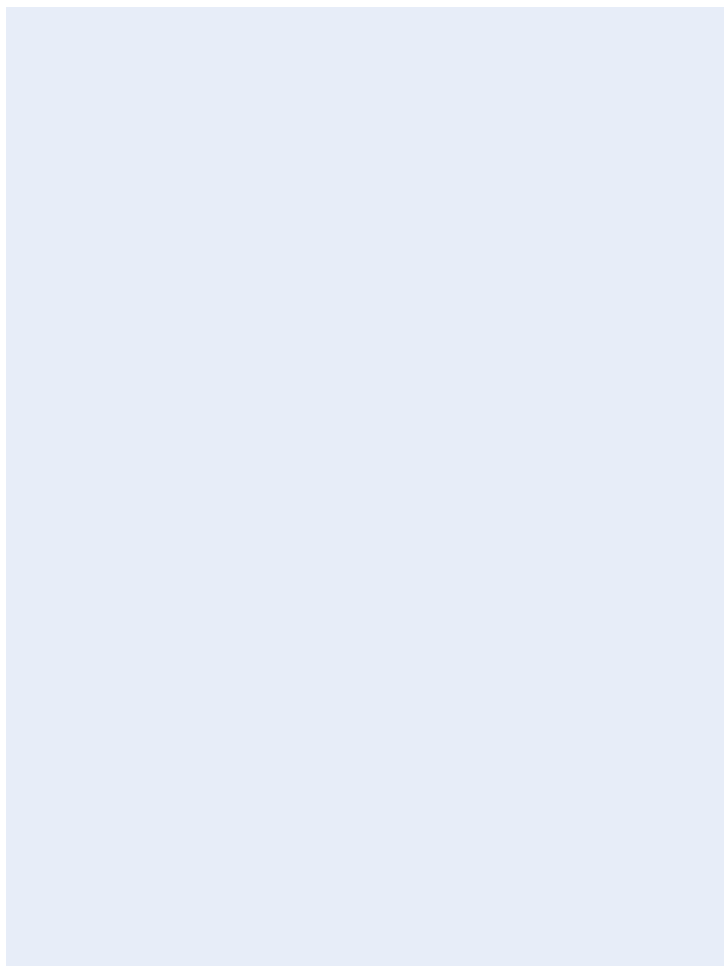
Indirect-Fired Water Heater Testing Standard

Supporting the Global Industry

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) is the trade association representing manufacturers of heating, ventilation, air conditioning, commercial refrigeration, and water heating equipment and components for sale in North America and around the world.

Ensuring human comfort, productivity, and safety — while practicing environmental stewardship — is the mission of AHRI. Through our certification program, standards, advocacy, and other activities, we strive to help save energy, improve comfort and productivity, and ensure a better environment.

AHRI Standards are available free of charge at www.ahrinet.org





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