

2025 AHR EXPO

2025 AHR EXPO Innovation Awards

The 2025 AHR Expo Innovation Awards winners are chosen annually in 10 industry categories, representing the most innovative products and technologies in the market.

The Innovation Awards draw hundreds of manufacturers to enter designs for new and never-before-seen solutions or improvements upon existing products and technologies. All entries are reviewed and selected by a panel of third-party judges made up of distinguished ASHRAE members. Evaluations are based on overall innovative design, creativity of the product or service offered, product or technology real-world application as well as overall potential market impact.

In addition to celebrating innovation in HVAC&R, the Innovation Awards provide a means to strengthen the industry by allowing for the AHR Expo Workforce Development program, which aims to grow the industry through programming geared to inspire future members of the HVAC&R community.

Funds collected from the entry fees are donated to programming at the student level, including show field trips, curated introductions to professionals and manufacturers, laboratory equipment and monetary donation to student programs in the hosting city.

... BUILDING AUTOMATION WINNER ...

Distech Controls—Eclipse Facilities (Booth 781)

INNOVATION: Eclipse Facilities is a game-changer for system integrators, equipment manufacturers and leading digital partners who can leverage unparalleled openness and interoperability with Eclipse controllers to deliver advanced digital services. Buildings implementing Eclipse ensure the highest occupant satisfaction, equipment performance and minimal operational costs to maintain the highest asset value.

FINALISTS:

CoolAutomation, CoolMaster Edge (Booth 1283)

LumenRadio, W-BACnet (Booth 1469)



Innovation Awards

... COOLING WINNER ...

Climate Control Group—EnviroKIT (Booth 3927)

INNOVATION: The EnviroKIT is a quick, simple and budget-friendly solution for restoring vertical stack fan coil unit performance. Sustainably replace aging components in just a few hours per room without drywall demolition. Ideal for the hospitality industry, this kitted solution improves cooling performance of fan coils with minimal room downtime.

FINALISTS:

Danfoss, Danfoss VZH-VI Variable Speed Scroll Compressor Range with injection (Booth 1301)

Diehl Controls North America, Diehl Controls INVERTER (Booth 221)



... HEATING WINNER ...

AERCO, a Watts Brand—AERCO CFR (Booth 743)

INNOVATION: CFR is a stainless steel condensing boiler that can be installed in a Category I vent, making it an ideal solution for the commercial retrofit market. It delivers energy savings, reliable performance and cost-saving installation flexibility in a compact footprint to cost-effectively comply with local energy mandates.

FINALISTS:

Residential & Light Commercial HVAC business of Johnson Controls, YORK HH8 Side-Discharge Heat Pump (Booth 2101)

Olimpia Splendid USA, Maestro Tower (Booth 8351)



... INDOOR AIR QUALITY WINNER ...

Senva Inc.—TotalSense Indoor Air Quality Sensor (Booth 581)

INNOVATION: The TotalSense Air Quality sensor is the most configurable air quality sensor available with any combination of 10 sensors, including carbon dioxide (CO₂), carbon monoxide (CO), relative humidity (RH), temperature, occupancy detection (PIR), total volatile organic compounds (TVOC), Ozone (O₃), particulate matter (PM) and barometric pressure and ambient light.

FINALISTS:

Sharp Corporation, Airst (AY-XP12CPU) (Booth 543)

TSI Incorporated, TSI OmniTrak Solution (Booth 6270)



Innovation Awards

... PLUMBING WINNER ...

Grundfos—Grundfos ALPHA HWR (Booth 1808)



INNOVATION: The Grundfos ALPHA HWR is the first high-efficiency, digitally connected circulator for domestic hot water recirculation systems. It is the most efficient circulator available with a best-in-class energy rating of 215 from the Hydraulic Institute. The fully digital solution achieves advanced comfort with maximum water and energy savings.

FINALISTS:

Nyle Water Heating Systems, MEDUSA Commercial Integrated Heat Pump Water Heater (Booth 7283)

Viega LLC, Viega MegaPress ZL Bronze IPS to CTS Transition Coupling (Booth 3843)

... REFRIGERATION WINNER ...

Danfoss—Danfoss BOCK HGX56 CO2 T (Booth 1301)

INNOVATION: Danfoss BOCK HGX56 CO₂ T is a transcritical six-cylinder CO₂ compressor with expanded range to enable larger refrigeration and heat pump applications with a smaller footprint and strong energy efficient performance.

FINALISTS:

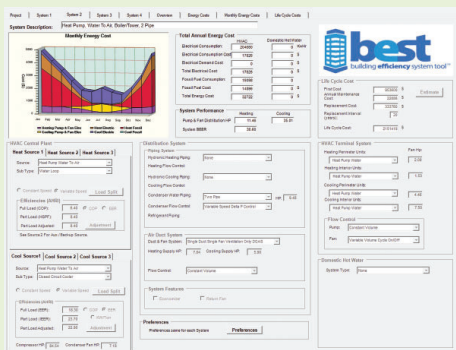
Chemours, Opteon XL40 (Booth 2401)

ebm-papst Inc., DV280 (Booth 6461)



... SOFTWARE WINNER ...

Radiant Professionals Alliance (RPA), Building Efficiency System Tool 6.2 (BEST 6.2) (Booth 2175)



INNOVATION: The Radiant Professionals Alliance's (RPA) free interactive Building Efficiency System Tool 6.2 (BEST 6.2), revolutionizes HVAC system efficiency comparison. BEST Software is held by Taco, which has control over the content and function thereof. The software is copyrighted and protected by United States copyright laws and international treaty provisions.

FINALISTS:

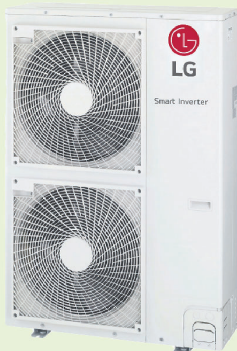
J2 Innovations, Inc., Edge2Cloud (Booth 561)

Neptronic, Neptronic Integrated Management System (IMS) (Booth 1551)

Innovation Awards

... SUSTAINABLE SOLUTIONS WINNER ...

LG Electronics U.S.A. Inc., LG Residential Cold Climate Heat Pump (Booth 6643)



INNOVATION: Conventional heat pumps suffer significant degradation in performance when confronted with temperatures below 0°F (-17.8°C), making them less reliable and efficient in cold climate regions. New heat pump products, such as this innovation from LG, have been developed to combat cold climate challenges, operating down to -31°F (-35°C).

FINALISTS:

Honeywell, Honeywell Connected Power (Booth 909)
Lync, by Watts, Lync Aegis (Booth 743)

... TOOLS & INSTRUMENTS WINNER ...

PassiveLogic, PassiveLogic Sense Nano (Booth 1191, 1391)

INNOVATION: The Sense Nano is the first truly wireless sensor—communicating via Bluetooth mesh while extracting its operating energy from the surrounding environment. Goodbye, battery replacements. Installing in 15 seconds, it fits in the palm of your hand. And it packs a punch with seven sensors inside a 45 mm (1.8 in.) diameter ring.

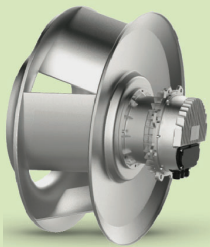


FINALISTS:

Particles Plus, Inc., Particles Plus Condensation Particle Counter (Booth 2570)
UEi Test Instruments, KANE460 (Booth 4354)

... VENTILATION WINNER ...

Rosenberg USA, Inc.—Rosenberg I-Series Backward Curved Fans (Booth 5751)



INNOVATION: Rosenberg has developed 23 models of I-Series Fans, ranging from 355 mm to 630 mm (14 in. to 25 in.). The high-efficiency, high-volume I-impeller features five backward-curved, hollow-profiled and airfoil section aluminum blades with efficiency-optimized circumferential diffusers. The new impeller can increase efficiencies up to 11% while reducing noise levels by more than half compared to older impellers.

FINALISTS:

Danfoss, Danfoss Advanced Active Filter AAF 007 (Booth 1301)
Specified Controls, 4-Zone ESP Panel with Built-in Ventilation Control (Booth 564)