

Variable Air Volume Terminals (VAV)

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.



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.



Visit www.ahridirectory.org

Contact

certification@ahrinet.org
for more information.

In the Asia Pacific region,
please contact
Bridge Xue at bxue@ahrinet.org
or 138 1043 2200.

Related Standard

Products in the VAV certification program are tested to AHRI Standard 885, *Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets* and AHRI Standard 880 (I-P)-2011, *Performance Rating of Air Terminals*.

Program Scope

This program applies to 50 Hz and 60 Hz Production Model Variable Air Volume Terminals, as defined in Section 1.2 of the VAV Operations Manual, and used in non-residential air distribution systems which provide control of air volume and/or air temperature by one (1) or more of the following means and may include a fan:

- Fixed or adjustable directional vanes;
- Pressure dependent volume dampers or shutoff valves (including air induction nozzles and dampers);
- Pressure compensated volume dampers or shutoff valves (including air induction nozzles and dampers);
- Integral heat exchanger(s);
- On/off fan control; and/or
- Variable speed fan control.

Program Scope Exclusions

This certification program does not apply to non-VAV diffusers, grilles, or registers or to products specifically covered by the AHRI Forced Circulation Air-Cooling and Air-Heating Coils Certification Program or the AHRI Room Fan-Coil Certification Program.

Program Highlights

- Participants based in 8 countries across 3 continents
- Only certification program to conduct sound testing
- Each test conducts a verification of model construction for insulation type and metal gauge
- Related standard includes optional published ratings for energy consumption of series and parallel fan-power terminals

Certified Ratings

The following certification program ratings are verified by test:

- Primary Airflow, SCFM [m³/s];
- Minimum Supply Operating Pressure, in. H₂O [kPa];
- Radiated Sound Power Level, dB;
- Discharge Sound Power Level, dB;
- Electrical Power Input, W;
- Power Consumption (optional), W/SCFM; and
- Induced or Fan Airflow Rate, SCFM [m³/s].