

Variable Frequency Drives (VFD)

Certification Program

AHRI is the world's most trusted source of performance certified heating, cooling, ventilation and commercial refrigeration equipment and components. Only products that have passed AHRI's rigorous third-party testing can display the AHRI Certified mark. Find certified products at www.ahridirectory.org.



Related Standard

Products in the VFD certification program are tested to AHRI Standard 1210(I-P)/1211 (SI), *Performance Rating of Variable Frequency Drives*.

Program Scope

This program applies to variable frequency drives as defined below, for which published ratings are available, and which can be tested in the independent third-party laboratory contracted by AHRI.

Variable Frequency Drive

A power electronic device that regulates the speed of an alternating current motor by adjusting the frequency and the voltage of the electrical power supplied to the motor.

Program Scope Inclusions

This certification program includes only base VFDs which may be incorporated into other configurations, (i.e. bypasses, filters, enclosures) with the following specifications:

- Designed for use in the control of asynchronous induction motors in HVACR products only designated by the manufacturer;
- Found within a building that are low voltage (= 600 Volts) and drives that are stand alone; and
- Custom units – designated to have significantly different system efficiencies harmonic performance or motor stress.

Program Scope Exclusions

This certification program does not include:

- VFDs mechanically integrated into motors;
 - Brushless DC motor controllers; and
 - Motor insulation stress for 208 V VFDs.
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- Certified Ratings
 - Drive system efficiency, %
 - Motor insulation stress, peak V and rise time, μ sec; and
 - Power line harmonics, total harmonic current distortion, %

Visit www.ahridirectory.org

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



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.