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AMCA 211-13 (Rev. 10-16)

Certified Ratings Program Product Rating Manual for Fan Air Performance



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Certified Ratings Program Product Rating Manual for Fan Air Performance



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Certified Ratings Program—Product Rating Manual for Fan Air Performance

1. Purpose and Scope

The purpose of this manual is to prescribe technical procedures to be used in connection with the AMCA Certified Ratings Program for fan air performance.

Products that can be licensed by AMCA to bear the AMCA certified ratings seal are those defined in ANSI/AMCA Standard 99, Section 0068; ISO 13349 and IEC 60335-2-80 and are within the product scope of AMCA International.

The program applies only to fans and is not applicable to their component parts such as fan impellers and housings.

2. Normative References

AMCA Publication 11, Certified Ratings Program Operating Manual
ANSI/AMCA Standard 99, Standards Handbook
AMCA Publication 111, Laboratory Accreditation Program
AMCA Publication 200, Air Systems
ANSI/AMCA Standard 205, Energy Efficiency Classification for Fans
ANSI/AMCA Standard 210, Laboratory Methods of Testing Fans for Certified Aerodynamic Performance
ANSI/AMCA Standard 220, Laboratory Methods of Testing Air Curtain Units for Aerodynamic Performance Rating
ANSI/AMCA Standard 230, Laboratory Methods of Testing Air Circulating Fans for Rating
ANSI/AMCA Standard 240, Laboratory Methods of Testing Positive Pressure Ventilators for Aerodynamic Performance Rating
ANSI/AMCA Standard 250, Laboratory Methods of Testing Jet Tunnel Fans for Performance
ANSI/AMCA Standard 260, Laboratory Methods of Testing Induced Flow Fans for Rating
AMCA Publication 311, Certified Ratings Program Product Rating Manual for Fan Sound Performance
ISO 5801, Industrial Fans — Performance Testing Using Standardized Airways
ISO 13350, Industrial Fans — Performance Testing of Jet Fans
Appendix U to Subpart B of Part 430 — Uniform Test Method for Measuring the Energy Consumption of Ceiling Fans, 10 CFR Part 430, Subpart B — Test Procedures (including amendments published in the Energy Conservation Program: Test Procedures for Ceiling Fans; Final Rule, 81 FR 48619, July 25, 2016)
IEC 62301, Ed. 2 2011-01, Household electrical appliances – Measurement of standby power

3. Definitions

All definitions in AMCA Publication 11, as well as the following, apply to this program.

3.1 Appurtenance (accessory)

Any item in or on the inlet or discharge airstream that affects the performance of the fan. An accessory/appurtenance is henceforth referred to as an appurtenance.

3.2 AMCA Certified Ratings Program air performance

A program for certifying a product's aerodynamic performance ratings, as defined in this document.

3.3 Performance rating(s)

A statement of the pressure performance and power versus airflow at a given speed at standard inlet air density or other specified density. Efficiency may also be included in the performance ratings at the option of the licensee. Power shall be