AHRI Standard 230-2022 (SI)

2022 Standard for

Sound Intensity Testing Procedures for Determining Sound Power of HVAC Equipment

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ICS Code: 17.140.01

Note:

This standard supersedes AHRI Standard 230-2013 (SI).

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Forward:

This standard describes the methodology for determination of Sound Power Levels of broad-band, and/or discrete-frequency noise sources using the intensity method. It is based on sound tests utilizing the sound intensity method as described in ISO Standard 9614-1 (measurement at discrete points, grade 2) or ISO Standard 9614-2 (measurement by scanning, grade 2).

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Intent

This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors and users.

Review and Amendment

This standard is subject to review and amendment as technology advances.

2022 Edition

This edition of AHRI Standard 230, *Sound Intensity Testing Procedures for Determining Sound Power of HVAC Equipment*, was prepared by the Testing and Analysis Standards Technical Committee. The standard was published by the Sound and Vibration Standards Subcommittee in October 2022.

Origin and Development of AHRI Standard 230

The initial publication was AHRI Standard 220-2013, *Sound Intensity Testing Procedures for Determining Sound Power of HVAC Equipment*.

Summary of Changes

AHRI Standard 230-2022 (SI) contains the following update(s) to the previous edition:

- Updated definitions in Section 3
- Updated the high frequency correction determination method and frequency range in Section 6.4
- Clarified field indicator requirements and use in Appendix C

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Committee Personnel

AHRI Standard 230-2022 (SI) Ad Hoc Group

Participant	Interest Category Classification	Voting Role	State / Province / Country
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Paul Bauch Johnson Controls, Inc.	Product Manufacturer	Primary	PA, USA
Patrick Chinoda Revcor Inc.	Product Manufacturer	Primary	IL, USA
Diane Jakobs Rheem Manufacturing Company	Product Manufacturer	Primary	AR, USA
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Karl Peterman Swegon North America Inc.	Product Manufacturer	Primary	ON, Canada
Miles Strand Emerson Commercial and Residential Solutions	Product Manufacturer	Primary	OH, USA
Lee Tetu Carrier Corporation	Product Manufacturer	Primary	NY, USA
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Testing and Analysis Standards Technical Committee Scope:

The Testing and Analysis STC is responsible for development and maintenance of standards and guidelines related to procedures for testing, analysis, calibration of instrumentation, and qualification of test facilities for sound and vibration.

This STC will also be responsible for topics not in scope of the other Sound & Vibration STCs.

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