



ADDENDA

**ANSI/ASHRAE Addendum a to
ANSI/ASHRAE Standard 200-2015**

Methods of Testing Chilled Beams

Approved by ASHRAE on June 30, 2015, and by the American National Standards Institute on July 2, 2015.

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ISSN 1041-2336



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FOREWORD

This addendum updates the normative references and adds a new Informative Annex F, "Informative References."

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strike through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum a to Standard 200-2015

Modify the following sections as shown.

4.2 Temperature and moist air properties measuring instruments shall meet the requirements of ASHRAE Standard 41.1¹ and ASHRAE Standard 41.6⁶ and the following subsections.

[...]

4.4.3.2 Airflow meters may be checked in situ by means described in ASHRAE Standards 41.2³ or 41.7⁷, or in Informative Annex B.

[...]

4.5 Ductwork between the reference airflow measuring device and the device under test shall be sealed per SMACNA⁵ duct class A at 3 in. wc (747.3 Pa), seal class zero.

[...]

4.6.1 Sound Power Determination. Sound power levels shall be determined for the octave band center frequencies from 125 to 4000 Hz according to AHRI Standard 220⁸. AHRI Standard 220⁸ specifies the instrumentation, test facilities, sound power calculation method, required data to be taken, reference sound source (RSS) requirements, and reverberation room qualification procedures.

4.6.2 Reverberation Room Qualification. Units are required to be tested in a reverberation room that meets the broadband requirements of AHRI Standard 220¹⁵.

4.6.3 Sound Data Requirements. Sound measurements shall be performed in one-third octave band levels from 100 to 6000 Hz center frequencies. Corrections for background noise and for the computation of the one-third octave band sound power levels shall be per AHRI Standard 220⁸.

[...]

4.8.3.10.3 Globe temperature shall be measured with a sensor calibrated to give an accuracy of 0.4°F (0.2°C) or less,

placed in the center of a black globe with diameter 2.36 to 5.9 in. (60 to 150 mm), according to EN ISO 7726⁹.

Modify Section 8 as shown.

8. NORMATIVE REFERENCES

1. ASHRAE. 2006. ANSI/ASHRAE Standard 41.1-1986 (RA 2006), *Standard Method for Temperature Measurement*. Atlanta: ASHRAE.
2. ASHRAE. 1989. ASHRAE Standard 41.3, *Standard Method For Pressure Measurement*. Atlanta: ASHRAE.
3. ASHRAE. 1992. ASHRAE Standard 41.2-1987 (RA1992), *Standard Methods For Laboratory Airflow Measurement*. Atlanta: ASHRAE.
4. ASHRAE. 2006. ANSI/ASHRAE Standard 70, *Method of Testing the Performance of Air Outlets and Inlets*. Atlanta: ASHRAE.
5. ASA. 2012. ANSI/ASA S12.58, *Sound Power Level Determination for Sources Using a Single-Source Position*. Melville, NY: Acoustical Society of America.
6. ASHRAE. 2008. ~~ANSI/ASHRAE Standard 130, *Methods of Testing Air Terminal Units*. Atlanta: ASHRAE.~~
7. ASA. 2002. ~~ASA S12.51, *Acoustics—Determination of Sound Power Levels of Noise Sources Using Sound Pressure—Precision Method for Reverberation Rooms*. Melville, NY: Acoustical Society of America.~~
8. ~~ASHRAE. 1991. *ASHRAE Terminology of Heating, Ventilation, Air Conditioning, and Refrigeration*. Atlanta: ASHRAE.~~
9. ~~EN 13182, *Ventilation for buildings—instrumentation requirements for air velocity measurements in ventilated spaces*.~~
10. ~~EN 14518, *Ventilation for buildings—Chilled beams—Testing and rating of passive chilled beams*.~~
11. ~~EN 15116, *Ventilation in buildings—Chilled beams—Testing and rating of active chilled beams*.~~
5. SMACNA. 2005. *HVAC Duct Construction Standards—Metal and Flexible*, 3rd edition. Chantilly, VA: Sheet Metal and Air Conditioning Contractors' National Association.
6. ASHRAE. 2014. ANSI/ASHRAE Standard 41.6-2014, *Standard Methods for Humidity Measurement*. Atlanta: ASHRAE.
7. ASHRAE. 2006. ASHRAE Standard 41.7-1984 (RA 2006), *Standard Methods for Gas Flow Measurement*. Atlanta: ASHRAE.
8. AHRI. 2014. ANSI/AHRI Standard 220, *Reverberation Room Qualification and Testing Procedures for Determining Sound Power of HVAC Equipment*. Arlington, VA: AHRI.
9. ISO. 1998. ISO 7726, *Ergonomics of the Thermal Environment—Instruments for Measuring Physical Quantities*. Geneva, Switzerland: ISO.

Add new Informative Annex F as shown.

(This annex is part of this standard. It is normative and contains requirements necessary for conformance to the standard. It has been processed according to the ANSI requirements for a standard.)

INFORMATIVE ANNEX F

INFORMATIVE REFERENCES

1. ASA. 2012. ANSI/ASA S12.58, *Sound Power Level Determination for Sources Using a Single-Source Position*. Melville, NY: Acoustical Society of America.
2. ASHRAE. 2008. ANSI/ASHRAE Standard 130, *Methods of Testing Air Terminal Units*. Atlanta: ASHRAE.
3. ASA. 2002. ASA S12.51, *Acoustics—Determination of Sound Power Levels of Noise Sources Using Sound Pressure—Precision Method for Reverberation Rooms*. Melville, NY: Acoustical Society of America.
4. ASHRAE. 1991. *ASHRAE Terminology of Heating, Ventilation, Air Conditioning, and Refrigeration*. Atlanta: ASHRAE.
5. BSI. 2002. BS/EN 13182, *Ventilation for Buildings—Instrumentation Requirements for Air Velocity Measurements in Ventilated Spaces*. London: British Standards Institute.

POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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