



ADDENDA

**ANSI/ASHRAE Addendum f to
ANSI/ASHRAE Standard 62.1-2013**

Ventilation for Acceptable Indoor Air Quality

Approved by the ASHRAE Standards Committee on January 23, 2016; by the ASHRAE Technology Council on January 27, 2016; and by the American National Standards Institute on January 28, 2016.

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ISSN 1041-2336



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FOREWORD

In preparation for publication of Standard 62.1-2016, this addendum updates the normative references included in the standard. This process includes reviewing the references to ensure that their content has not been changed such that they should no longer be referenced and that they are written in normative language. References that are not in normative language are being moved to a new Informative Bibliography. In some cases, the language of the standard where these documents are referenced needs to be modified. In particular, changes to the notes to Table 5.5.1 are made to avoid referencing non-normative documents and to improve the normative language used.

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

Addendum f to Standard 62.1-2013

Modify the notes to Table 5.5.1, "Air Intake Minimum Separation Distance," as shown. The remainder of Table 5.5.1 is unchanged.

Note 1: This requirement applies to the distance from the outdoor air intakes for one ventilation system to the exhaust outlets and ~~/~~relief outlets for any other ventilation system.

Note 2: Minimum distance listed does not apply to laboratory fume hood exhaust air outlets. Separation criteria for fume hood exhaust shall be in compliance with NFPA 45⁵ and ANSI/AIHA Z9.5.⁶ Informative Appendix XX contains sources of additional information on separation criteria for industrial environments can be found in the. These include the ACGIH Industrial Ventilation Manual^{7XX1} and the ASHRAE Handbook—HVAC Applications^{8XX2}, ASHRAE Laboratory Design Guide^{XX3}, and NSF/ANSI 49^{XX4}.

Note 3: ~~Shorter separation distances shall be permitted when determined in accordance with (a) The minimum distances relative to fuel-fired appliances shall be as required by ANSI Z223.1/NFPA-54⁹ for fuel gas burning appliances and equipment, (b) NFPA 31¹⁰ for oil burning appliances and equipment, and or (c) NFPA 211¹¹ for other combustion appliances and equipment.~~

Note 4: Distance measured to closest place that vehicle exhaust is likely to be located.

Note 5: ~~Shorter~~ The minimum separation distance shall ~~not apply be permitted~~ where outdoor surfaces below the air intake are sloped more than 45 degrees from horizontal or

where such surfaces that are less than 1 in. (30 mm) in width-wide.

Note 6: Where snow accumulation is expected, the surface of the snow at the expected average snow depth shall be considered to be a ~~constitutes the~~ "other surface directly below an intake."²

Modify the note in Section 5.5.2 as shown. The remainder of Section 5.5.2 is unchanged.

Informative Note: This performance corresponds to Class A (99% effectiveness) when rated according to AMCA 511^{14XX5} and tested per AMCA 500-L.^{13XX6}

Modify Informative Appendix F, Section F1.1, as follows.

F1.1 Application. Exhaust outlets and outdoor air intakes or other openings shall be separated in accordance with the following.

Exception: Laboratory fume hood exhaust air outlets shall be in compliance with NFPA 45-2004 and ANSI/AIHA Z9.5⁶-2003.

Modify Section 9, "References," as shown. Renumber the references here and in the body of the standard as appropriate.

9. REFERENCES

¹National Primary and Secondary Ambient Air Quality Standards, Code of Federal Regulations, Title 40 Part 50 (40 CFR 50), as amended July 30, 2004 and Oct. 17, 2006. U.S. Environmental Protection Agency. www.epa.gov/air/criteria.html, accessed June 20, 2008 27, 2015.

²ANSI/SMACNA 016-2012, HVAC Air Duct Leakage Test Manual, First-Second Edition, 19852012. Sheet Metal and Air Conditioning Contractors' Association, Inc. (SMACNA), Chantilly, VA.

³UL 181, Factory-Made Air Ducts and Air Connectors, 11th10th Edition, 20052013. Underwriters' Laboratories, Inc., Northbrook, IL.

⁴ASTM C1338-0014, Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings. American Society for Testing and Materials, West Conshohocken, PA.

⁵NFPA 45-2004, Standard on Fire Protection for Laboratories Using Chemicals. National Fire Protection Association, Quincy, MA.

⁶ANSI/AIHA Z9.5-20032013, Standard for Laboratory Ventilation. American Industrial Hygiene Association, Fairfax, VA.

⁷Industrial Ventilation: A Manual of Recommended Practice, 28th Edition, 2012. American Conference of Governmental Industrial Hygienists (ACGIH), Committee on Industrial Ventilation, Lansing, MI.

⁸2007ASHRAE Handbook—Heating, Ventilating, and Air-Conditioning Applications. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta, GA.

⁹ANSI Z223.1/NFPA-54-20062015, National Fuel Gas Code. National Fire Protection Association, Quincy, MA.

- ¹⁰*NFPA-31-20062011, Standard for the Installation of Oil-Burning Equipment.* National Fire Protection Association, Quincy, MA.
- ¹¹*NFPA-211-20062013, Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances.* National Fire Protection Association, Quincy, MA.
- ¹²*UL 1995, Heating and Cooling Equipment, 3rd4th Edition, 20052011.* Underwriters Laboratories, Inc., Northbrook, IL.
- ¹³*AMCA 500-L-0712, Laboratory Methods of Testing Louvers for Rating.* Air Movement and Control Association International, Inc. Arlington Heights, IL.
- ¹⁴*AMCA 511-07, Certified Ratings Program—Product Rating Manual for Air Control Devices.* Air Movement and Control Association International, Inc. Arlington Heights, IL.
- ¹⁵*ANSI/ASHRAE Standard 52.2-20072012, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size.* American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta, GA.
- ¹⁶*ASHRAE Standard 111-19882008, Practices for Measurement, Testing, Adjusting, and Balancing of Building, Heating, Ventilation, Air-Conditioning and Refrigeration HVAC Systems.* American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta, GA.
- ¹⁷*ANSI/ASHRAE 129-1997 (RA 02), Measuring Air Change Effectiveness.* American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta, GA.
- ¹⁸*ANSI/SMACNA 006-2006 HVAC Duct Construction Standards—Metal and Flexible, 3rd Edition, 2005.* Sheet Metal and Air Conditioning Contractors' National Association, Inc. (SMACNA), Chantilly, VA.
- ¹⁹*Fibrous Glass Duct Construction Standards, 7th Edition, 2003.* Sheet Metal and Air Conditioning Contractors' National Association, Inc. (SMACNA), Chantilly, VA.
- ²⁰*NFPA-90A-20022012, Standard for the Installation of Air-Conditioning and Ventilating Systems.* National Fire Protection Association, Quincy, MA.
- ²¹*NFPA-90B-20062012, Standard for the Installation of Warm Air Heating and Air-Conditioning Systems.* National Fire Protection Association, Quincy, MA.

- ²²*NSF/ANSI 60-20122013, Drinking Water Treatment Chemicals—Health Effects.* NSF International, Ann Arbor, MI.
- ²³*Secondary Direct Food Additives Permitted In Food For Human Consumption.* Code of Federal Regulations, Title 21 Part 173.310 (21 CFR 173.310), *Boiler Water Additives.* U.S. Food and Drug Administration, 2012.

Create a new Informative Appendix XX, "Bibliography," as follows.

(This appendix is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objections on informative material are not offered the right to appeal at ASHRAE or ANSI.)

INFORMATIVE APPENDIX XX **INFORMATIVE BIBLIOGRAPHY**

- ^{XX1}*Industrial Ventilation: A Manual of Recommended Practice, 28th Edition, 2012.* American Conference of Governmental Industrial Hygienists (ACGIH), Committee on Industrial Ventilation, Lansing, MI.
- ^{XX2}*2015 ASHRAE Handbook—Heating, Ventilating, and Air-Conditioning Applications.* ASHRAE, Atlanta, GA.
- ^{XX3}*2013 ASHRAE Laboratory Design Guide.* ASHRAE, Atlanta, GA.
- ^{XX4}*NSF/ANSI 49-2012, Biological Safety Cabinetry: Design, Construction, Performance and Field Certification.* National Sanitation Foundation International, Ann Arbor, MI.
- ^{XX5}*AMCA 511-13, Certified Ratings Program—Product Rating Manual for Air Control Devices.* Air Movement and Control Association International, Inc. Arlington Heights, IL.
- ^{XX6}*AMCA 500-L-12, Laboratory Methods of Testing Louvers for Rating.* Air Movement and Control Association International, Inc. Arlington Heights, IL.

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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