



ADDENDA

**ANSI/ASHRAE Addenda b and m to
ANSI/ASHRAE Standard 62.1-2010**

Ventilation for Acceptable Indoor Air Quality

Approved by the ASHRAE Standards Committee on June 22, 2013; by the ASHRAE Board of Directors on June 26, 2013; and by the American National Standards Institute on June 27, 2013.

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FOREWORD

A change proposal submitted to ASHRAE pointed out to the SSPC that the requirements for the quality of water used in humidifiers and water-spray systems could potentially be misinterpreted. In response, changes to the wording of Sections 5.12 and 5.12.1 are being incorporated that are intended to clarify the requirements. Water that is used must meet or exceed potable water quality standards, and no chemicals may be added other than those specified. In addition, use of certain chemicals is limited to systems using automated dosing equipment. Requirements for maintenance of the automated dosing equipment are added to Section 8. These requirements exist to reduce the risk of water treatment chemicals creating poor IAQ.

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

Addendum b to Standard 62.1-2010

Revise Sections 5.12 and 5.12.1 as follows.

5.12 Humidifiers and Water-Spray Systems. Steam and direct evaporation humidifiers, air washers, direct-evaporative coolers, and other water-spray systems shall be designed in accordance with this section.

5.12.1 Water Quality. Water purity shall originate directly from a meet or exceed potable water standards source or from a source with equal or better water quality at the point where it enters the ventilation system, space, or water vapor generator. Water vapor generated shall contain no chemical additives other than those chemicals in a potable water system.

Exception:

1. Water-spray systems that utilize chemical additives that meet NSF/ANSI Standard 60, *Drinking Water Treatment Chemicals – Health Effects*.^{X1}
2. Boiler water additives that meet the requirements of 21 CFR 173.310, *Secondary Direct Food Additives Permitted In Food For Human Consumption*.^{X2} and include automated dosing devices.

Revise Section 8.4.1.3 as follows.

8.4.1.3 Humidifiers. Humidifiers shall be cleaned and maintained to limit fouling and microbial growth. Any automatic chemical dosing equipment shall be calibrated and maintained in accordance with the O&M Manual to maintain additive concentrations to comply with Section 5.12.1. These systems shall be inspected at a minimum of once every three months of operation and/or treated as specified in accordance with the O&M Manual.

Add NSF/ANSI Standard 60-2012 and 21 CFR 173.310 (2012) to Section 9, References.

^{X1} NSF/ANSI 60-2012, *Drinking Water Treatment Chemicals—Health Effects*. NSF International, Ann Arbor, MI.

^{X2} *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.

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FOREWORD

This addendum results from a change proposal that recommended adding the National Standards for Total System Balance issued by the Associated Air Balance Council (AABC) as an equivalent method of balancing ventilation systems in Section 7.2.2 (Air Balancing) of Standard 62.1. This would be in addition to ASHRAE Standard 111 and the SMACNA standard. Public review comments argued that it was inappropriate to include a list of equivalent standards and that it was difficult for enforcement personnel to determine if other standards were “equivalent.” The SSPC decided to restrict the list to ASHRAE Standard 111 and revise the language to “national standard” to make it clear that standards by SMACNA, AABC, and others are acceptable without requiring evaluation of their different requirements.

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

Addendum m to Standard 62.1-2010

Modify Section 7.2.2 as shown.

7.2.2 Air Balancing. Ventilation systems shall be balanced in accordance with ASHRAE Standard 111,¹⁶ ~~SMACNA's HVAC Systems—Testing, Adjusting and Balancing,²²~~ or equivalent at least to the extent necessary to or another applicable national standard for measuring and balancing airflow so as to verify conformance with the total outdoor airflow and space supply airflow requirements of this standard.

Delete Reference 22 from Section 9, References.

9. REFERENCES

²²~~HVAC Systems—Testing, Adjusting and Balancing, 3rd Edition, 2002. Sheet Metal and Air Conditioning Contractors' National Association, Inc. (SMACNA), Chantilly, VA.~~

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.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating standards and guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

