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ANSI/ASHRAE Standard 62.1-2022 Ventilation and Acceptable Indoor Air Quality

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NOTE

Approved addenda, errata, or interpretations for this standard can be downloaded free of charge from the ASHRAE website at www.ashrae.org/technology.

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(This foreword 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 objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

*ASHRAE Standard 62.1 specifies minimum ventilation rates and other measures intended to provide indoor air quality (IAQ) that is acceptable to human occupants and that minimizes adverse health effects. Since its original publication, Standard 62.1 has been revised and enhanced in ways that make it more than an air treatment and ventilation standard. To signify that indoor air quality goes beyond minimum ventilation requirements—and in recognition of those aspects of building systems (equipment, filtration, controls, and more) that contribute to acceptable IAQ—the title of the standard has been updated to “Ventilation **and** Acceptable Indoor Air Quality.”*

Standard 62.1 is uniquely qualified to address ventilation and acceptable IAQ in the built environment and will enable stakeholders to make a conscientious effort to improve the indoor environment while maintaining a minimum standard for ventilation. The addenda that make up the 2022 edition of the standard represent years of research, statistical evidence, and improved building systems and technologies inherent to acceptable IAQ. Notable changes are as follows (for a full list, refer to Informative Appendix Q):

- *Reorganized Section 5, “Systems and Equipment,” to reflect the path of airflow and better illustrate how buildings, systems, and equipment are related—essentially the tertiary purpose of the standard*
- *Continued focus on IAQ, including improvements to the IAQ Procedure, setting maximum dew-point temperatures in mechanically cooled buildings and required exhaust air separation distances*
- *Owner acknowledgment of ANSI/ASHRAE Standard 188*
- *Relocated outpatient/ambulatory surgery and support care spaces in the scope of ASHRAE/ASHE Standard 170 to a new normative appendix and will continue to provide requirements for ventilation for these occupancies when appropriate and approved by an authority having jurisdiction*
- *Updates to definitions; clarification for air density adjustments; and removal of some items related to transient occupancies that are now under the scope of Standard 62.2*

Standard 62.1 continues to provide procedures and methods for the minimum requirements of ventilation, indoor air quality, and operation to engineers, design professionals, owners, and jurisdictional authorities where model codes have been adopted. Additionally, local jurisdictions have the opportunity to evaluate and adopt the entire standard for the benefit of commercial building occupants.

This standard is updated on a regular basis using ASHRAE's continuous maintenance procedures. Addenda are publicly reviewed, approved by ASHRAE and ANSI, and posted on the ASHRAE website. Change proposals can be submitted online at www.ashrae.org/continuous-maintenance. The project committee for Standard 62.1 takes formal action on all change proposals received.

1. PURPOSE

1.1 The purpose of this standard is to specify minimum ventilation rates and other measures intended to provide indoor air quality (IAQ) that is acceptable to human occupants and that minimizes adverse health effects.

1.2 This standard is intended for regulatory application to new buildings, additions to existing buildings, and those changes to existing buildings that are identified in the body of the standard.

1.3 This standard is intended to be used to guide the improvement of IAQ in existing buildings.

2. SCOPE

2.1 This standard applies to spaces intended for human occupancy within buildings except those within dwelling units in residential occupancies in which occupants are nontransient.

2.2 This standard defines requirements for ventilation and air-cleaning system design, installation, commissioning, and operations and maintenance.

2.3 In addition to ventilation, this standard contains requirements related to certain contaminants and contaminant sources, including outdoor air, construction processes, moisture, and biological growth.

2.4 This standard does not prescribe specific ventilation rate requirements for the following:

- a. Spaces that contain smoking or that do not meet the requirements in the standard for separation from spaces that contain smoking