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ANSI/ASHRAE Standard 62.1-2025
Ventilation and Acceptable Indoor Air Quality

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Standard 62.1-2025 Calculators: www.ashrae.org/XXXXX

Preview

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, minimizes adverse health effects, and protects the integrity of the building and its ventilation systems. A properly designed and maintained ventilation system reduces the risk of mold, mitigates against the spread of both nuisance and health hazards within the building, and contributes to occupant comfort and satisfaction.

The 2025 edition of the standard refines and expands the humidity control requirements, adds requirements for emergency ventilation controls to address atypical operating modes, and provides several new methods of calculation. Users of previous editions will find new methods for the calculation of separation distances between outdoor air intakes and exhausts; a new air density correction factor for all ventilation zones; a new method for calculating systems ventilation requirements when multiple standards are followed; a new demand control ventilation control sequence; requirements for air-cleaning system performance, including a calculation for end of useful life efficiency for certain contaminants; and revisions to the performance path for exhaust systems. Also included are updates to provide greater clarity of existing requirements and to align requirements with other codes and standards.

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 osr.ashrae.org. 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
b. *Patient care areas* not listed in this standard
c. Laboratories with *hazardous materials*

3. DEFINITIONS

3.1 Terminology (See Figure 3-1)

acceptable indoor air quality (IAQ): air in which there are no known *contaminants* at harmful *concentrations*, as determined by *cognizant authorities*, and with which a substantial majority (80% or more) of the people exposed do not express dissatisfaction.

air-cleaning system: a device or combination of devices applied to reduce the *concentration* of airborne *contaminants* such as *microorganisms*, dusts, fumes, respirable particles, other particulate matter, gases, vapors, or any combination thereof.

air conditioning: process of treating air to meet the requirements of a *conditioned space* by controlling its temperature, humidity, cleanliness, and distribution.

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