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### ANSI/ASHRAE Standard 62.2-2022

### Ventilation and Acceptable Indoor Air Quality in Residential Buildings

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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](http://www.ashrae.org/technology).

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## FOREWORD

*Standard 62.2 is the consensus ventilation and indoor air quality (IAQ) standard developed via the ANSI process to address dwelling units in residential occupancies in which the occupants are nontransient. The standard describes the minimum requirements to achieve acceptable IAQ via dwelling-unit ventilation, local mechanical exhaust, and source control. Dwelling-unit ventilation is intended to dilute the unavoidable contaminant emissions from people, materials, and background processes. Local mechanical exhaust is intended to remove contaminants from locations such as kitchens and bathrooms that, because of their design function, are expected to contain sources of contaminants. The standard includes secondary requirements that focus on properties and performance of residential ventilation systems. Examples include sound and airflow ratings for fans, controls, and labeling requirements. The standard provides additional compliance pathways for existing dwellings.*

*Standard 62.2 does not address specific pollutant concentration levels, nor does it fully address certain potential pollutant sources such as contamination from outdoor sources or from episodic occupant-controlled events such as painting, smoking, cleaning, or other high-polluting events. For information on residential ventilation and IAQ beyond the minimum requirements contained in this standard, refer to ASHRAE's Residential Indoor Air Quality Guide: Best Practices for Acquisition, Design, Construction, Maintenance and Operation.*

*The 2022 edition of this standard incorporates changes from 10 addenda to the 2019 edition. Significant changes include improvements to organize and clarify existing provisions, an increase in the stringency of compartmentalization requirements for attached dwelling units, and a requirement for supply or balanced dwelling-unit mechanical ventilation systems for attached dwelling units on enclosed corridors. For a complete description of changes, refer to Informative Appendix E.*

## 1. PURPOSE

This standard defines the roles and minimum requirements for mechanical and natural ventilation systems and the building envelope intended to provide acceptable indoor air quality (IAQ) in residential buildings.

## 2. SCOPE

This standard applies to dwelling units in residential occupancies in which the occupants are nontransient.

**2.1** This standard considers chemical, physical, and biological contaminants that can affect air quality. Thermal comfort requirements are not included in this standard.

**Informative Note:** See ANSI/ASHRAE Standard 55, *Thermal Environmental Conditions for Human Occupancy*, for thermal comfort requirements.

**2.2** While acceptable IAQ is the goal of this standard, it will not necessarily be achieved even if all requirements are met

- a. because of the diversity of sources and contaminants in indoor air and the range of susceptibility in the population;
- b. because of the many other factors that may affect occupant perception and acceptance of IAQ, such as air temperature, humidity, noise, lighting, and psychological stress;
- c. if the ambient air is unacceptable and this air is brought into the building without first being cleaned (ambient outdoor air cleaning is not required by this standard);
- d. if the system or systems are not operated and maintained as designed; or
- e. when high-polluting events occur.

## 3. DEFINITIONS

### 3.1 Terms

**acceptable indoor air quality:** air toward which a substantial majority of occupants express no dissatisfaction with respect to odor and sensory irritation and in which there are not likely to be contaminants at concentrations that are known to pose a health risk.