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ANSI/ASHRAE Standard 62.2-2019
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.

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FOREWORD

Standard 62.2 is the national ventilation and indoor air quality (IAQ) standard developed specifically for residential buildings via the ANSI process. The standard describes the minimum requirements to achieve acceptable IAQ via dwelling-unit ventilation, local demand-controlled exhaust, and source control. Dwelling-unit ventilation is intended to dilute the unavoidable contaminant emissions from people, materials, and background processes. Local demand-controlled exhaust is intended to remove contaminants from 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 flow ratings for fans, controls, and labeling requirements. The standard includes additional compliance pathways for existing dwellings.

This standard does not address specific pollutant concentration levels, nor does it 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, users may wish to consult the companion guideline, which was also developed by the Standard 62.2 committee. ASHRAE Guideline 2-2015, Ventilation and Indoor Air Quality in Low-Rise Residential Buildings, provides explanatory and educational material not appropriate for a code-intended standard.

This 2019 edition incorporates the contents of 16 addenda into the 2016 edition. For brief descriptions of these addenda, refer to Informative Appendix E. Major changes since the 2016 edition include adding a compliance path that gives credit for particle filtration, distinguishing between balanced and unbalanced ventilation systems, interactions with natural infiltration, requiring compartmentalization limits for new multifamily dwellings, and allowing for single-point envelope leakage test results to be used when calculating infiltration credit.

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.

2.1.1 Informative Note: See ANSI/ASHRAE Standard 55-2017, *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.