



ADDENDA

**ANSI/ASHRAE Addendum e to
ANSI/ASHRAE Standard 62.2-2016**

Ventilation and Acceptable Indoor Air Quality in Residential Buildings

Approved by the ASHRAE Standards Committee on June 23, 2018; by the ASHRAE Board of Directors on June 27, 2018; and by the American National Standards Institute on July 25, 2018.

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FOREWORD

Addendum e cleans up terminology regarding balanced ventilation and makes clear that the exhaust and supply have to run at the same time.

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

Addendum e to Standard 62.2-2016

Revise the definition of “balanced system” in Section 3 as shown.

~~**mechanical ventilation, balanced system:** a ventilation system provided where the total supply fan flow is within 20% of the and total exhaust fan flow are within 20% of each other and provided simultaneously. The balanced system air flow shall be the average of the supply and exhaust flows.~~

Revise Section 4.3 as shown.

4.3 Airflow Measurement. The airflow required by this section is the quantity of outdoor ventilation air supplied and/or indoor air exhausted by the mechanical ventilation system as installed and shall be measured according to the ventilation equipment manufacturer’s installation instructions, or by using a flow hood, flow grid, or other airflow measuring device at the mechanical ventilation fan’s inlet terminals/grilles, outlet terminals/grilles, or in the connected ventilation ducts. Balanced mechanical ventilation system airflow shall be the average of the supply fan and exhaust fan flows. Ventilation airflow of

systems with multiple operating modes shall be tested in all modes designed to meet this section.

Revise Section 5.3 as shown.

5.3 Continuous Mechanical Exhaust. A mechanical exhaust system shall be installed to operate continuously. The system may be part of a balanced mechanical ventilation system. See Chapter 10 of ASHRAE Guideline 24⁵ for guidance on selection of methods.

Revise Section 6.1 as shown.

6.1 Adjacent Spaces and Transfer Air. Measures shall be taken to minimize air movement across envelope components to dwelling units from adjacent spaces such as garages, unconditioned crawlspaces, unconditioned attics, and other dwelling units. Pressure boundary wall, ceiling, and floor penetrations shall be sealed, as shall any vertical chases adjacent to dwelling units. Doors between dwelling units and common hallways shall be gasketed or made substantially airtight.

Supply and balanced mechanical ventilation systems shall be designed and constructed to provide ventilation air directly from the outdoors. Balanced mechanical ventilation system airflow shall be the average of the supply fan and exhaust fan flows.

Revise Section C2.3 as shown.

C2.3 Combination of Infiltration and Mechanical Ventilation. The total ventilation is the sum of the mechanical ventilation and infiltration at each time step:

$$Q_i = Q_{fan,i} + \phi Q_{inf,i} \quad (C7)$$

where ϕ is the additivity coefficient, which is unity for balanced mechanical ventilation systems, and otherwise

$$\phi = \frac{Q_{inf,i}}{Q_{inf,i} + Q_{fan,i}} \quad (C8)$$

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.

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