

STANDARD

**ANSI/ASHRAE/IES Addendum x to
ANSI/ASHRAE/IES Standard 90.1-2022**

Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

Approved by ASHRAE and the American National Standards Institute on May 31, 2024; and by the Illuminating Engineering Society on May 28, 2024.

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ISSN 1041-2336



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FOREWORD

Addendum x addresses the requirement for isolation zones in Section 6.4.3.3.4. It adds an exception to the requirement where ANSI/ASHRAE/ASHE Standard 170-2021, Ventilation of Health Care Facilities, or other standards require continuous airflow to maintain space pressure differential requirements.

There is no change in the cost of construction.

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 x to Standard 90.1-2022

Modify Section 6.4.3.3.4 as follows (IP and SI).

6.4.3.3.4 Zone Isolation. *HVAC systems serving zones that are intended to operate or be occupied nonsimultaneously shall be divided into isolation areas. Zones may be grouped into a single isolation area provided it does not exceed 25,000 ft² of conditioned floor area nor include more than one story. Each isolation area shall be equipped with isolation devices capable of and configured to automatically shut off the supply of conditioned air and outdoor air to and exhaust air from the area. Each isolation area shall be controlled independently by a device meeting the requirements of Sections 6.4.3.3.1. For central systems and plants, controls and devices shall be provided to allow stable system and equipment operation for any length of time while serving only the smallest zone group served by the system or plant.*

Exceptions to 6.4.3.3.4: *Isolation devices and controls are not required for*

- 1. exhaust air and outdoor air connections to isolation zones when the fan system to which they connect is 5000 cfm and smaller;*
- 2. exhaust airflow from a single isolation zone of less than 10% of the design airflow of the exhaust system to which it connects; ~~or~~*
- 3. zones intended to operate continuously or intended to be inoperative only when all other zones are inoperative; or*
- 4. spaces where the use of isolation is prohibited by local codes, accreditation standards, or ANSI/ASHRAE/ASHE Standard 170.*

Informative Note: ASHRAE Guideline 36 includes detailed sequences of control for zone isolation using logical groups of zone air terminal units serving each isolation area.

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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As an industry leader in research, standards writing, publishing, certification, and continuing education, ASHRAE and its members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with organizations in the HVAC&R community and across related industries.

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