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## ADDENDA

ANSI/ASHRAE/IES Addendum bh 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 April 30, 2025, and by the Illuminating Engineering Society on March 31, 2025.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE<sup>®</sup> website (https://www.ashrae.org/continuous-maintenance).

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## FOREWORD

Addendum bh is a response to request from ASHRAE Standing Standard Project Committee (SSPC) 189.3 members to require unoccupied setback in hospital/healthcare spaces. The working committee selected high air change spaces in which ANSI/ASHRAE/ASHE Standard 170 permits unoccupied setback. An analysis was performed for both energy and carbon impact of these changes. The paybacks on both analyses were favorable. The energy analysis results were favorable (>5) scalar ratio limit/scalar ratios (SRL/SR). The social cost of carbon ratios was favorable as well (>9).

*Informative Note:* In this addendum, changes to the current standard are indicated in the text by <u>underlining</u> (for additions) and <del>strikethrough</del> (for deletions) unless the instructions specifically mention some other means of indicating the changes.

## Addendum bh to Standard 90.1-2022

#### Modify Section 6.4.3.3 as follows.

**6.4.3.3 Off-Hour Controls.** *HVAC systems* shall have the off-hour controls required by Sections 6.4.3.3.1 through 6.4.3.3.<u>56</u>.

**6.4.3.3.6 Healthcare Unoccupied Turndown**. In healthcare occupancies, HVAC controls for zones comprising the following space types shall be capable of and configured to reduce room airflow during unoccupied periods to no more than the larger of the airflow required to achieve relative room pressure relationships per ASHRAE/ASHE Standard 170 or 20% of the airflow required to achieve the minimum total air changes per hour in accordance with ANSI/ASHRAE/ASHE Standard 170: operating rooms, surgical cystoscopy rooms, procedure rooms, Class 2 and Class 3 imaging rooms.

Each zone shall be programmed to enter unoccupied periods based on an occupancy schedule. During scheduled unoccupied periods, a zone occupancy sensor or occupant operable override function shall be used to command the associated zone back into occupied mode for a programmable period when activated. Where more than 50% of zones served by an existing system are altered, the otherwise unaltered zones shall also comply.

## Exceptions to 6.4.3.3.6:

- The greater of two or 25% of zones for each type of space can be configured as occupied continuously to support readiness for emergency patient care for each space function. Such zones are not exempt from having the capability of turndown in new construction or additions.
- 2. Where the AHJ has not yet adopted a version of Standard 170 permitting turndown, the system shall be capable of turndown but need not be configured to turndown.

## 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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Founded in 1894, ASHRAE is a global professional society committed to serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration, and their allied fields.

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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