ANSI/ASHRAE/IES Addendum n to
ANSI/ASHRAE/IES Standard 90.1-2022

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

Approved by the ASHRAE Standards Committee on March 27, 2024, by the Illuminating Engineering Society on March 15, 2024, and by the American National Standards Institute on April 22, 2024.

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® website (https://www.ashrae.org/continuous-maintenance).

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This American National Standard (ANS) is a national voluntary consensus Standard developed under the auspices of ASHRAE.

Consensus is defined by the American National Standards Institute (ANSI), of which ASHRAE is a member and which has approved this Standard as an ANS, as “substantial agreement reached by directly and materially affected interest categories. This signifies the concurrence of more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that an effort be made toward their resolution.” Compliance with this Standard is voluntary until and unless a legal jurisdiction makes compliance mandatory through legislation.

ASHRAE obtains consensus through participation of its national and international members, associated societies, and public review.

The Project Committee Chair and Vice-Chair must be members of ASHRAE; while other committee members may or may not be ASHRAE members, all must be technically qualified in the subject area of the Standard.

The Senior Manager of Standards of ASHRAE should be contacted for
a. interpretation of the contents of this Standard,
b. participation in the next review of the Standard,
c. offering constructive criticism for improving the Standard, or
d. permission to reprint portions of the Standard.

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POSTtexto de la página
5. Where designing systems in accordance with Standard 62.1, Section 6.3, “Indoor Air Quality Procedure,” baseline ventilation airflow rates in those zones are permitted to be greater than the proposed design and shall be calculated in accordance with Standard 62.1, Section 6.2, “Ventilation Rate Procedure” and the following:

a. For single-zone Systems 1, 2, 3, 4, 9, 10, 11, 12, 13, as specified in Table G3.1.1-4, the zone air distribution effectiveness shall be \( E_z = 1.0 \) as defined by Standard 62.1, Table 6-4.

b. For multizone Systems 5, 6, 7, 8, as specified in Table G3.1.1-4, the system ventilation efficiency shall be \( E_{z,I} = 0.75 \), as defined by Standard 62.1, Section 6.4.2.3.

Table G3.1 Modeling Requirements for Calculating Proposed Building Performance and Baseline Building Performance

<table>
<thead>
<tr>
<th>Proposed Building Performance</th>
<th>Baseline Building Performance</th>
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19. Air Cleaning

Where an air-cleaning system has been designed and submitted with design documents, components of the air-cleaning system shall be consistent with design documents.

Where using Exception 5 to G3.2.2.4, nonparticulate air-cleaning system energy shall not be included in the baseline building performance.

Table G3.2.2.8 Baseline Fan Brake Horsepower (Baseline Fan Motor Power)

<table>
<thead>
<tr>
<th>Baseline Fan Brake Horsepower (Baseline Fan Motor Power)</th>
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<tbody>
<tr>
<td>Constant-Volume Systems 3, 4, 12, and 13</td>
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<tr>
<td>Variable-Volume Systems 5 to 8</td>
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<tr>
<td>Variable-Volume System 11</td>
</tr>
</tbody>
</table>

[...]

Notes:
1. Where \( \Delta P \) is calculated according to Section 6.5.3.1.1 using the pressure-drop adjustment from the proposed design and the design flow rate of the baseline building system.
2. Do not include pressure-drop adjustments for evaporative coolers or heat recovery devices that are not required in the baseline building system by Section G3.2.2.9.
3. Do not include pressure-drop adjustments for nonparticulate air-cleaning systems where using Exception 5 to Section G3.2.2.4.

Air Cleaning

Where an air-cleaning system has been designed and submitted with design documents, components of the air-cleaning system shall be consistent with design documents.

Where using Exception 5 to G3.2.2.4, nonparticulate air-cleaning system energy shall not be included in the baseline building performance.
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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