

**ANSI/ASHRAE/ICC/USGBC/IES Addendum be to
ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020**

Standard for the Design of High-Performance Green Buildings

**Except Low-Rise
Residential Buildings**

The Complete Technical Content of the International Green Construction Code®

Approved by ASHRAE and the American National Standards Institute on August 31, 2023; by the International Code Council on August 7, 2023; by the Illuminating Engineering Society on August 23, 2023; and by the U.S. Green Building Council on August 8, 2023.

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 (www.ashrae.org/continuous-maintenance).

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Cognizant TC: 2.8 Building Environmental Impacts and Sustainability

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

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FOREWORD

Standard 189.1 previously referenced Standard 170 for ventilation rates in health care spaces, but those references were removed via published Addendum n to 189.1-2020. However, a sentence remains that addresses situations in which such a space is covered by both Standard 62.1 and Standard 170.

A small number of outpatient spaces are covered by both standards with a few inconsistencies between them. Given that Standard 189.1, Section 8 no longer references Standard 170, that sentence is no longer needed.

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 be to Standard 189.1-2020

Revise Section 8.3.1 as shown.

8.3 Indoor Air Quality. Buildings shall comply with the design requirements of ANSI/ASHRAE Standard 62.1, Sections 4 through 6, including applicable normative appendices, with the modifications and additions indicated herein. Residential dwelling units shall comply with the design requirements of ANSI/ASHRAE Standard 62.2, Sections 4 through 8, with the modifications and additions indicated herein.

Requirements provided in Sections 8.3.1.1 through 8.3.1.7 supersede such requirements in ASHRAE Standard 62.1 and ASHRAE Standard 62.2.

8.3.1 Minimum Ventilation Rates. In residential dwelling units, the dwelling unit-ventilation rates and local exhaust airflow rates as required by ASHRAE Standard 62.2 shall apply. ASHRAE Standard 62.2, Section 4.1.2, shall not apply. ~~In all other cases, ASHRAE Standard 62.1, Sections 6.1.1 and 6.2, shall be used to determine minimum zone and intake outdoor airflow rates. ASHRAE Standard 62.1, Sections 6.1.2 and 6.1.3, shall not apply. Where a space in a health care facility is listed in both Standard 62.1 and Standard 170, the R_p-R_a Option in Standard 170 shall be used.~~

For all other occupancy categories, minimum zone and intake outdoor airflow rates shall be determined in accordance with ASHRAE Standard 62.1, Section 6.1 with modifications, and Section 6.2. ASHRAE Standard 62.1, Section 6.1.2 and 6.1.3 requirements shall not apply.

Informative Note: ASHRAE Standard 62.1, Sections 6.1.1 and 6.2, define the Ventilation Rate Procedure for determining ventilation rates.

Modify Section 8.3.2.1 as shown.

8.3.2 Outdoor Air Delivery Monitoring

8.3.2.1 System Design for Outdoor Air Intake Measurement. Each mechanical ventilation system shall be configured to allow for the measurement of the *outdoor air* intake for use in testing and balancing, recommissioning, and *outdoor air* monitoring as required in ~~Section 8.3.1.2.2~~ Section 8.3.2.2.

Modify Section 8.3.3(a)(1) and 8.3.3(d) as shown.

8.3.3 Filtration and Air Cleaner Requirements

a. **Particulate Matter.** The following requirements shall apply in all buildings.

1. **Wetted Surfaces.** Particulate matter filters or air cleaners having a minimum efficiency reporting value (MERV) of not less than 8 where rated in accordance with ANSI/ASHRAE Standard 52.2, or not less than Coarse 90% where rated in accordance with ISO 16890, shall be provided upstream of all cooling coils or other devices with wetted surfaces through which air is supplied to an *occupiable space*. These requirements supersede the requirements in ASHRAE Standard 62.1, Section 5.5 ~~Section 5.9~~.

[. . .]

- d. **Ozone Emissions.** The requirements in this section supersede the requirements in ASHRAE Standard 62.1, Sections 5.9.1 and 5.9.2, 5.7.1 and 5.7.2. Air cleaning devices with electronic filter elements that rely on ionization or corona discharge shall be *listed* and *labeled* in accordance with UL 2998. Ultraviolet-generating devices in supply air devices, ducts, and plenums shall not emit 185 nm wavelengths.

Modify Section 8.3.4 as shown.

8.3.4 Building Pressure. The requirements in Section 8.3.4. supersede the requirements in ASHRAE Standard 62.1, Section 5.17 ~~5.14~~. *Building projects* shall be designed in accordance with the following subsections.

Modify Section 8.3.6 as shown.

8.3.6 Humidity Control. The requirements in this section supersede the requirements in ASHRAE Standard 62.1, Section 5.12 ~~5.10~~. Mechanical air-conditioning and evaporative cooling systems shall be designed in accordance with Sections 8.3.4.1 and 8.3.4.2, ~~Sections 8.3.1.4.1 and 8.3.1.4.2,~~ as applicable.

Modify Section 8.8 as shown.

8.8 Soil-Gas Control. *Building projects* shall be designed to control soil-gas entry in accordance with Sections 8.8.1 or 8.8.2.

Exceptions to 8.8:

1. Buildings or portions thereof that are not routinely occupied, such as warehouses and open parking garages.
2. Ventilated garages that comply with ANSI/ASHRAE Standard 62.1, ~~Sections 5.15~~ Sections 5.19 and 6.5.

**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.

Standard 189.1 and the International Green Construction Code

Standard 189.1 serves as the complete technical content of the International Green Construction Code[®] (IgCC). The IgCC creates a regulatory framework for new and existing buildings, establishing minimum green requirements for buildings and complementing voluntary rating systems. For more information, visit www.iccsafe.org.

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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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