ADDENDA

ANSI/ASHRAE/ASHE Addendum c
to ANSI/ASHRAE/ASHE Standard 170-2017

Ventilation of Health Care Facilities

Approved by ASHRAE Standard Committee and the ASHRAE Board of Directors on February 5, 2020; by the American Society for Healthcare Engineering on December 19, 2019; and by the American National Standards Institute on March 2, 2020.

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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SPECIAL NOTE

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.

ASHRAE Standards are prepared by a Project Committee appointed specifically for the purpose of writing the Standard. 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. Every effort is made to balance the concerned interests on all Project Committees.

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.

(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

Addendum c provides guidance to users of Standard 170 on how to incorporate air classifications into their design of Standard 170 spaces if they are required to use them in conjunction with ASHRAE Standard 62.1.

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

Addendum c to Standard 170-2017

Add new Informative Appendix B, "Air Classifications." Reletter current appendices accordingly.

(This appendix is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

INFORMATIVE APPENDIX B
AIR CLASSIFICATIONS

ASHRAE Standard 62.1 categorizes spaces into air classifications and prevents the recirculation and transfer of air under many conditions from spaces with higher air classifications to spaces with lower air classifications based on ASHRAE Standard 62.1, Section 5.16. This appendix includes guidelines on how to apply air classifications to ASHRAE/ASHE Standard 170 spaces.

a. Air classifications should be applied as indicated below and in accordance with ASHRAE Standard 62.1[1] Section 5.16.
b. Recirculation allowances by room units shall be in accordance with the room recirculation requirements of Tables 7.1, 8.1, and 9.1.and Standard 62.1, Section 5.16. (***Informative note:*** This should not be construed to prevent room recirculation of air within the same space when permitted by Standard 170 but prevented by Standard 62.1 air classifications.)
c. Energy recovery devices serving Standard 170 spaces should meet the requirements of Standard 170, Section 6.8.
d. Spaces in Tables 7.1, 8.1, and 9.1 requiring 100% exhaust air should be Class 3 air.

Exceptions to (e):

1. Spaces listed in Section 6.3.2.1 should be Class 4 air.
2. For spaces with Class 3 and 4 air, room recirculation should be as permitted by HEPA filtration when indicated in Tables 7.1, 8.1, and 9.1 and associated notes.

e. Spaces requiring negative pressure but not 100% exhaust air should be Class 2 air. The following list of spaces should also be considered Class 2 air:
   1. Resident gathering/activity/dining (mild odor contaminants)
   2. Resident room in skilled nursing facilities (mild odor contaminants)
   3. Resident unit corridor in skilled nursing facilities (mild odor contaminants)
   4. Laboratory work area, media transfer (mild odor contaminants)
   5. Special examination room (biological concerns)
   6. Pharmacy (mild odor contaminants)
f. All other spaces should be Class 1 air.
g. Variability of contaminants by space use is expected. When additional contaminants will occur in a space than may typically be expected, designers should designate a higher air classification for that space if appropriate. Designers should not designate a lower air classification for a space than is indicated.

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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