

ANSI/ASHRAE Addendum k to  
ANSI/ASHRAE Standard 62-2001



# ASHRAE<sup>®</sup> STANDARD

## Ventilation for Acceptable Indoor Air Quality

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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.

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- b. participation in the next review of the Standard,
- c. offering constructive criticism for improving the Standard,
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**(This foreword is provided for information only and is not part of the addendum.)**

## **FOREWORD**

*Addendum 62k deletes the current Section 4 (Classification) and adds a new informative appendix addressing application of the standard in new and existing buildings. The current Section 4 discusses the two procedures for determining design ventilation rates, but it contains no requirements and is therefore inconsistent with a standard in code-intended language. The new appendix attempts to address the issue of application of the standard in new and existing buildings. The appendix contains informative guidance on when the standard applies in new and existing buildings. It also contains a code-language version of these requirements that could be adopted, with or without modification, by jurisdictions that do not have a building code. Earlier versions of this addendum attempted to make this material part of the standard (in Section 4), but it was pointed out that this could create conflicts with building codes that contain their own compliance and enforcement sections.*

### **Addendum 62k**

*Delete the current Section 4 (Classification) of ASHRAE Standard 62-2001 and add the following new appendix to the standard.*

**(This appendix is not part of this standard but is included for information only.)**

## **APPENDIX K**

### **APPLICATION AND COMPLIANCE**

This appendix contains application and compliance suggestions that are intended to assist users and enforcement agencies in applying this standard.

For the most part, ASHRAE Standard 62-2001 is specifically written for new buildings because some of its requirements assume that other requirements within the standard have been met. In the case of existing buildings, retroactive application and compliance with all the requirements of this standard may not be practical. However, the principles established in this standard may be applied to most existing commercial and institutional buildings. Some existing buildings may achieve acceptable indoor air quality despite not meeting the requirements of ASHRAE Standard 62-2001 due to, for example, good maintenance and capital improvement procedures, building materials that, by virtue of their age, have very low contaminant emission rates, and many other factors.

#### **K.1 Application**

##### **K.1.1 New Buildings**

All sections and normative appendices should apply to new buildings falling within the scope of this standard.

##### **K.1.2 Existing Buildings**

The standard should be applied to existing buildings at least in the following circumstances:

#### **1. Additions to Existing Buildings**

All additions to existing buildings should meet the requirements of this standard as if the addition were a new building. An exception may be made when an existing ventilation system is extended to serve the addition. In this case, the existing system components, such as fans and cooling and heating equipment, need not meet the requirements of this standard. However, the extended existing system should remain in compliance with ventilation codes and standards that were in effect at the time it was permitted for construction.

#### **2. Repairs**

Repairing (making operational) existing equipment or other building components does not require the building or any of its components to retroactively comply with this standard.

#### **3. Replacement**

Any component of a building that is removed and replaced should meet the applicable requirements of Section 5, Systems and Equipment, of this standard for that component. An exception may be made in cases when replacing a component of like size and kind, provided all requirements of codes and standards used at the time of original system design and installation are met. For example, replacement of an air-conditioning unit with one of similar capacity would not require retroactive compliance with ventilation rates and other requirements of this standard. Unaltered components do not need to be retroactively brought into compliance except when there are substantial alterations (as defined below).

#### **4. Substantial Alterations**

If a building is substantially altered, the requirements of this standard should be met as if the building were new. A building would be considered substantially altered if the cost of the revisions exceeds 50% of the building's fair market value, excluding the cost of compliance with this standard.

#### **5. Change in Use**

If the space application category as listed in Table 2 changes, such as from office to retail, the minimum ventilation rates required by Section 6, Procedures, should be met for that space.

#### **K.2 Compliance**

Demonstrating that acceptable indoor air quality has been achieved, such as by measuring contaminant concentrations or surveying occupants, would not be required by this standard except where required by the IAQ Procedure.

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*The following section is a suggested model code language.*

## **Application and Compliance**

### **Application**

**New Buildings.** All sections and normative appendices apply to new buildings falling within the scope of this standard.

### **Existing Buildings.**

**Additions to Existing Buildings.** All additions to existing buildings within the scope of this standard shall meet the requirements of all sections and normative appendices.

**Exception:** When an existing ventilation system is extended to serve an addition, the existing system components, such as fans and cooling and heating equipment, need not meet the requirements of this standard. However, the extended existing system must remain in compliance with ventilation codes and standards that were in effect at the time it was permitted for construction.

**Repairs.** Repairing (making operational) existing equipment or other building components shall be allowed without requiring the building or any of its components to comply with this standard.

**Replacement.** Any component of a building that is removed and replaced shall meet the applicable requirements of Section 5, Systems and Equipment, of this standard for that

component. Unaltered components are not required to be brought into compliance except as required due to a change in use.

**Exception:** Replacement of a building component or individual piece of equipment with a component of like size and kind, provided that all requirements of codes effective at the time of original system design and installation are met. For example, replacement of an air-conditioning unit with one of similar capacity would not require that the ventilation rate requirements and other requirements of this standard be met.

**Substantial Alterations.** If a building is substantially altered, all sections and normative appendices of this standard shall be met as if the building were new. A building shall be considered substantially altered if the cost of the revisions exceeds 50% of the building's fair market value, excluding the cost of compliance with all sections and normative appendices of this standard.

**Change in Use.** If the space application category as listed in Table 2 changes, such as from office to retail, the minimum ventilation rates required by Section 6, Procedures, shall be met for that space.

### **Compliance**

Demonstrating that acceptable indoor air quality has been achieved, such as by measuring contaminant concentrations or surveying occupants, is not required by this standard except where required by the IAQ Procedure.

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## **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.