ADDENDA

**ANSI/ASHRAE/IES Addendum ao to**
**ANSI/ASHRAE/IES Standard 90.1-2013**

# Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on June 25, 2016; by the ASHRAE Technology Council on June 29, 2016; by the IES Board of Directors on June 27, 2016; and by the American National Standards Institute on June 30, 2016.

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## FOREWORD

*The use of nonadiabatic humidification systems to maintain space humidity levels requires dramatically more energy than adiabatic methods. Ultrasonic, wetted media, and microdroplet spray are some examples of adiabatic humidification technologies. Water usages for adiabatic systems are also typically less than those of nonadiabatic systems.*

*Addendum ao sets the baseline to nonadiabatic humidification to encourage the use of adiabatic humidification systems in buildings where humidification is required.*

***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 ao to 90.1-2013

*Revise Table G3.1 part 10 HVAC Systems, Baseline as follows (I-P and SI):*

| 10. HVAC Systems | |
|---|---|
| Proposed | Baseline |
| *No change to current text* | The HVAC system(s) in the baseline building design shall be of the type and description specified in Section G3.1.1, shall meet the general HVAC system requirements specified in Section G3.1.2, and shall meet any system-specific requirements in Section G3.1.3 that are applicable to the baseline HVAC system type(s).<br>~~If the proposed design includes computer room humidification then the computer room humidification system, schedules, and setpoints in the baseline building design shall be the same as in the proposed design.~~<br>If the proposed design includes humidification then the baseline design shall use adiabatic humidification.<br>**Exception:** If the proposed building humidification system complies with Section 6.5.2.4 then the baseline design shall use nonadiabatic humidification.<br><br>For systems serving computer rooms, the baseline shall not have reheat for the purpose of dehumidification.<br>Fossil fuel systems shall be modeled using natural gas as their fuel source.<br>**Exception**: For fossil fuel systems where natural gas is not available for the proposed building site as determined by the rating authority, the baseline HVAC system(s) shall be modeled using propane as their fuel source. |

## 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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