

ANSI/ASHRAE/IESNA Addendum *aa* to ANSI/ASHRAE/IESNA Standard 90.1-2001

ASHRAE STANDARD

Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on April 28, 2004; by the ASHRAE Board of Directors on July 1, 2004; and by the American National Standards Institute on July 1, 2004.

This standard is under continuous maintenance 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. The change submittal form, instructions, and deadlines are given at the back of this document and may be obtained in electronic form from ASHRAE's Internet Home Page, http://www.ashrae.org, or in paper form from the Manager of Standards. The latest edition of an ASHRAE Standard and printed copies of a public review draft may be purchased from ASHRAE Customer Service, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: orders@ashrae.org. Fax: 404-321-5478. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in U.S. and Canada).

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1791 Tullie Circle, NE . Atlanta, GA 30329

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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.

The 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,
- d. permission to reprint portions of the Standard.

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ASHRAE uses its best efforts to promulgate Standards and Guidelines for the benefit of the public in light of available information and accepted industry practices. However, ASHRAE does not guarantee, certify, or assure the safety or performance of any products, components, or systems tested, installed, or operated in accordance with ASHRAE's Standards or Guidelines or that any tests conducted under its Standards or Guidelines will be nonhazardous or free from risk.

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ASHRAE Standards and Guidelines are established to assist industry and the public by offering a uniform method of testing for rating purposes, by suggesting safe practices in designing and installing equipment, by providing proper definitions of this equipment, and by providing other information that may serve to guide the industry. The creation of ASHRAE Standards and Guidelines is determined by the need for them, and conformance to them is completely voluntary.

In referring to this Standard or Guideline and in marking of equipment and in advertising, no claim shall be made, either stated or implied, that the product has been approved by ASHRAE.

(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.)

FOREWORD

The following addendum updates Section 12, "Normative References." The addendum deletes references that are no longer referred to in the standard, adds one new reference, corrects references that were incorrect, and updates references that have been revised or reaffirmed since the 2001 edition of Standard 90.1 was published.

Addendum aa to 90.1-2001 (I-P and SI editions)

Make the following changes to the normative references in Section 12:

12. NORMATIVE REFERENCES

Reference	Title
10 CFR Part 430, App <u>EN</u>	Uniform Test Method for Measuring the Energy Consumption of Furnaces
AMCA 500-1989500-D-98	Test Methods for Louvers, Dampers, and Shutters
ANSI Z21.47- 1993 (2001)	Gas-Fired Central Furnaces (Except Direct Vent and Separated Combustion System Furnaces)
ANSI Z83.8- 1990 (2002)	Gas Unit Heaters and Duct Furnaces
Air-Conditioning and Refrigeration Institute 4301 N. Fairfax Drive, Suite 425 4100 North Fairfax Drive, Suite 200, Arlington, VA 22203	t e
ARI 210/240- 94 2003	Unitary Air Conditioning and Air-Source Heat Pump Equipment
ARI 365- 94 (2002)	Commercial and Industrial Unitary Air-Conditioning Condensing Units
ARI 550/590-98 with Addenda through July 2002	Water-Chilling Packages Using the Vapor Compression Cycle
ASTM C518-91 2002	Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
Hydronics Institute <u>Division of Gama</u> , 35 Russo Place, P.O. Box 218, Be keley Heights, NJ 07922	er-
H.I. Htg. Boiler Std.BTS 2000	Testing and Rating Standard for Heating Boilers Testing Standard Method to Determine Efficiency of Commercial Space Heating Boilers
Add the following normative references in Section 12: 12. NORMATIVE REFERENCES	
12. NORMATIVE REFERENCES	
Reference	Title
ARI 460-2000	Remote Mechanical Draft Air Cooled Refrigerant Condensers

Delete the following normative references in Section 12:

12. NORMATIVE REFERENCES

Reference Title

ANSI Z21.13a 1993 Gas Fired Low-Pressure Steam and Hot Water Boilers

ANSI Z21.66-1994 Automatic Vent Damper Devices for Use with Gas Fired-

Appliances

ANSI Z83,9-1990 Gas-Fired Duct Furnaces

ARI 320-98 Water Source Heat Pumps

ARI 325-98 Ground Water Source Heat Pumps

ARI 330-98 Ground Source Closed-Loop Heat Pumps

American Society of Mechanical Engineers, Three Park Avenue, New York,

NY 10017

ASME PTC 4.1–1964 Steam Generating Units

UL 726-90

UL Standard for Safety — Oil Fired Boiler Assemblies

UL 795-94

UL Standard for Safety Commercial-Industrial Gas Heating

Equipment

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.