

ANSI/ASHRAE/IESNA Addendum *d* 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 June 22, 2002; by the ASHRAE Board of Directors June 27, 2002; and by the American National Standards Institute July 30, 2002.

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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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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- 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,
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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 provided for information only and is not part of the addendum.)

FOREWORD

This proposal sets minimum efficiency standards for single-package vertical units (SPVU), which consist of a separate encased or unencased combination of cooling and optional heating components, factory assembled as a single package, and intended for exterior mounting at an outside wall. They include air-conditioners (SPVAC) and heat pumps (SPVHP).

Until recently, SPVUs were classified as residential products and were covered under NAECA. However, on October 5, 2000, the Department of Energy (DOE) concluded that SPVUs were commercial products covered by EPACT. Meanwhile, SPVU manufacturers have completed the development

of ARI Standard 390-2001, which rates the performance of SPVUs in terms of energy efficiency ratio (EER) instead of seasonal energy efficiency ratio (SEER) to maintain consistency with EPACT-covered products. In addition, SPVU manufacturers have been working through ARI to develop an equipment certification program. The program is expected to start in January 2002.

Notice: ASHRAE now has a list server for Standing Standards Project Committee 90.1 (SSPC 90.1). Interested parties can now subscribe and unsubscribe to the list server and be automatically notified via e-mail when activities and information related to the Standard and the User's Manual is available. To sign up for the list server please visit Standards List Servers on the Standards and Codes section of the ASHRAE website at <http://www.ashrae.org/STANDARDS/listservers.htm>.

Addendum 90.1d (I-P and SI editions)

(a) Add to Table 6.2.1D the following products (below the PTHP Equipment Type)

Equipment Type	Size Category (Input)	Subcategory or Rating Condition	Minimum Efficiency	Efficiency as of 01/01/2002	Test Procedure
SPVAC (Cooling Mode)	All Capacities	95°F db/ 75°F wb Outdoor Air		8.6 EER	ARI 390
SPVHP (Cooling Mode)	All Capacities	95°F db/ 75°F wb Outdoor Air		8.6 EER	
SPVHP (Heating Mode)	All Capacities	47°F db/ 43°F wb Outdoor Air		2.7 COP	

(b) Modify caption of Table 6.2.1D to read as follows:

TABLE 6.2.1D

Electrically Operated Packaged Terminal Air Conditioners, Packaged Terminal Heat Pumps, Single-Package Vertical Air Conditioners, Single-Package Vertical Heat Pumps, Room Air Conditioners, and Room Air Conditioner Heat Pumps-Minimum Efficiency Requirements

(c) Add the following reference to Section 12, Normative References (under Air Conditioning and Refrigeration Institute):

Reference	Title
ARI 390-2001	Single Package Vertical Air-Conditioners and Heat Pumps

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.