

ERRATA SHEET FOR FIRST PRINTING AND REPRINT 2/02
ANSI/ASHRAE/IESNA STANDARD 90.1-2001 (I-P edition)
Energy Standard for Buildings Except Low-Rise Residential Buildings

February 15, 2002

The corrections listed in this errata sheet apply to the first printing and reprint of ANSI/ASHRAE/IESNA Standard 90.1-2001, I-P edition. The outside back cover marking identifying the reprint in “86245 PC 2/02” and is blank for the first printing. The shaded items have been added since the previous published errata sheet dated December 15, 2001.

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://xp20.ashrae.org/STANDARDS/listservers.htm>

Page Erratum

As Noted **All Sections.** Wherever the word “transformer” appears in the standard, it shall be italicized, “*transformer*”.

24 **Section 5.5.3.2 Fenestration and Doors.** Under Exceptions to 5.5.3.2 (b), change the reference “NAGDM 105” to “ANSI/DASMA 105”.

28 **Table 6.2.1B, Electrically Operated Unitary and Applied Heat Pumps - Minimum Efficiency Requirements.** In the second column, corresponding to **Equipment Type:** “Water-Source (Cooling Mode)”, combine “≥ 17,000 Btu/h and <65,000 Btu/h” with “≥65,000 Btu/h and <135,000 Btu/h” to indicate a single size category “≥17,000 Btu/h and <135,000 Btu/h”. In addition, combine the corresponding duplicate information in columns 3 through 6 into a single row.

29 **Table 6.2.1C, Water Chilling Packages-Minimum Efficiency Requirements.** In the second column, corresponding to **Equipment Type:** “Air Cooled, with Condenser, Electrically Operated”, combine “<150 tons” with “≥150 tons” to indicate a single size category “All Capacities”.

30 **Table 6.2.1D, Electrically Operated Packaged Terminal Air Conditioners, Packaged Terminal Heat Pumps, Room Air Conditioners, and Room Air Conditioner Heat Pumps-Minimum Efficiency Requirements.** Make the following editorial corrections:

- In the second column, corresponding to **Equipment Type:** “Room Air

Conditioners, with Louvered Sides”, combine “<6000 Btu/h” with “≥6000 Btu/h and <8000 Btu/h” to indicate a single size category “<8000 Btu/h”. In addition, combine the corresponding duplicate information in column 4 into a single row.

- In the second column corresponding to **Equipment Type**: “Room Air Conditioners, without Louvered Sides”, combine “≥8000 Btu/h and <20,000 Btu/h” with “≥20,000 Btu/h” to indicate a single size category “≥8000 Btu/h”. In addition, combine the corresponding duplicate information in column 4 into a single row.

43 **Table 6.2.4.2A, Minimum Duct Insulation R-Value,^a Cooling and Heating Only Supply Ducts and Return Ducts.** In the second row, sixth column, change the column heading from “Unvented Attic with Backloaded Ceiling” to “Unvented Attic Above Insulated Ceiling”.

44 **Table 6.2.4.2B, Minimum Duct Insulation R-Value,^a Combined Heating and Cooling Ducts.** In the second row, sixth column, change the column heading from “Unvented Attic w/ Backloaded Ceiling” to “Unvented Attic Above Insulated Ceiling”.

46 **Exceptions to 6.3.2.1 Zone Controls.** In Exceptions to 6.3.2.1 (c) italicize the terms “site-recovered” and “site solar energy” and add a hyphen between the word “site” and “solar” as follows: “*site-recovered*” and “*site-solar energy*”.

48 **Section 6.3.3.1 Fan Power Limitation.** Following the Allowable Fan System Power equation change the term “Temperature Ratio = $(T_{t-stat} - T_s)/20$ (11.1)” to “Temperature Ratio = $(T_{t-stat} - T_s)/20$ ”.

51 **Table 7.2.2, Performance Requirements for Water Heating Equipment.** Make the following editorial corrections:

- In the second column, corresponding to **Equipment Type**: “Gas Storage Water Heaters”, combine “>75,000 Btu/h and ≤155,000 Btu/h” with “>155,000 Btu/h” to indicate a single size category “>75,000 Btu/h”. In addition, combine the corresponding duplicate information in columns 3 and 4 into a single row.
- In the second column, corresponding to **Equipment Type**: “Oil Storage Water Heaters”, combine “>105,000 Btu/h and ≤155,000 Btu/h” with “>155,000 Btu/h” to indicate a single size category “>105,000 Btu/h”. In addition, combine the corresponding duplicate information in columns 3 and 4 into a single row.

67 **Section 12 Normative References.** Change the reference “NAGDM 105-1992” to “ANSI/DASMA 105-1992 (R 1998)”.

- 78 **TABLE A-9 (Section A3.2), Assembly U-Factors for Metal Buildings.** In the seventh column under **R-16.8**, for **Single Layer of Mineral Fiber, R-10**, change the Overall U-Factor from “0.051” to “0.041”.
- 130 **Section C6.10.1.** Change Equation C-20 from

$$\text{“U-factor} = 1/((\text{C-factor}) + 0.85 + R_{\text{soil}})\text{”}$$

to

$$\text{“U-factor} = 1/(1/(\text{C-factor}) + 0.85 + R_{\text{soil}})\text{”}.$$