ERRATA SHEET FOR FIRST PRINTING AND REPRINT 2/02 ANSI/ASHRAE/IESNA STANDARD 90.1-2001 (SI 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, SI edition. The outside back cover marking identifying the reprint in "86247 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 **All Sections.** Wherever the word "transformer" appears in the standard, it shall Noted 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 "≥ 5 kW and <19 kW" with "≥19 kW and <40 kW" to indicate a single size category "≥5 kW and <40 kW". 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 "<528 kW" with "≥528 kW" 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 "<1.8 kW" with "≥1.8 kW

and <2.3 kW" to indicate a single size category "<2.3kW". 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 "≥2.3 kW and <5.9 kW" with "≥5.9 kW" to indicate a single size category "≥2.3 kW". In addition, combine the corresponding duplicate information in column 4 into a single row.
- 41 **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".
- 42 **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"*.
- 47 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 = $(T_{t-stat} - T_S)/11.1$ ".
- 50 **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 ">22.98 kW and ≤45.43 kW" with ">45.43 kW" to indicate a single size category ">22.98 kW". 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 ">30.78 kW and ≤45.43 kW" with ">45.43 kW" to indicate a single size category ">30.78 kW". 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)".

129 Section C6.10.1. Change Equation C-20 from

"U-factor = $1/((C-factor) + 0.85 + R_{soil})$ "

to

"U-factor = $1/(1/(C-factor) + 0.15 + R_{soil})$ ".