Errata Sheet for ANSI/ASHRAE Standard 34-2001, Designation and Classification of Refrigerants

March 30, 2004

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 34-2001. The shaded erratum has been added since the previously published errata sheet dated February 7, 2002. Note that the February 7, 2002 errata have been incorporated into the second printing of Standard 34-2001 identified as "86090 PC 5/02" on the outside back cover of the standard.

Page Erratum

- 4 **Section 3 Definitions of Terms:** In the second column, end of 3rd paragraph; typographical error: Change note "4" to "Ref 4."
- 8 **Section 8.1.3 Timing:** In the third sentence of Section 8.1.3 change "(see 8.9.6)" to "(see 8.8.6)".
- 11 **Table 1 Refrigerant Data and Safety Classifications:** 245fa chemical formula, edit for consistency with Table 2 and IUPAC convention: Change CF₃CH₂CHF₂ to CHF₂CH₂CF₃
- 13 **Table 2 Data and Safety Classifications for Refrigerant Blends:** The following are typographical errors; a ± symbol was printed instead of a + symbol; decimal precision that was specified was dropped in some case where composition or composition tolerances ended in ".0":
 - For 402A composition, change (60/2/38) to (60.0/2.0/38.0)
 - For 402A composition tolerances, change (±2/±0.1,-1/±2) to (±2.0/+0.1,-1.0/±2.0)
 - For 402B composition, change (38/2/60) to (38.0/2.0/60.0)
 - For 402B composition tolerances, change (±2/±0.1,-1/±2) to (±2.0/+0.1,-1.0/±2.0)
 - For 413A composition tolerances, change $(\pm 1/\pm 2/\pm 0, -1)$ to $(\pm 1/\pm 2/\pm 0, -1)$
 - For 414A composition tolerances, change (±2/±2/±0.5/±0.5,-1) to (±2.0/±2.0/±0.5/+0.5,-1.0)
 - For 414B composition tolerances, change (±2/±2/±0.5/±0.5,-1) to (±2.0/±2.0/±0.5/+0.5,-1.0)
 - For 416A composition tolerances, change (+0.5,-1/+1,-0.5/+0.1,-0.2) to (+0.5,-1.0/+1.0,-0.5/+0.1,-0.2)
 - For 417A composition tolerances, change (±1.1/±1/±0.1,-0.4) to (±1.1/±1.0/+0.1,-0.4)

The following is a typographical error; Capital letter "A" was printed instead of lower case "a" in R-134a.

For 416A composition, change R-134A/124/600 (59.0/39.5/1.5) to R-134a/124/600 (59.0/39.5/1.5)

The following are misprints; minus signs and numerical values do not appear on the same line.

- 507A normal boiling point (°F) is -52.1
- 508B normal boiling point (°F) is -126.9

15 Appendix B, Table B1; erroneous inclusion of material:

- For 218, change 2001 Safety Group from A3 to A1 (see assigned safety classification in Table 1)
- For 245fa, change formula from CHF₂CH₂CH₃ to CHF₂CH₂CF₃. Change 2001 Safety Group from A3 to B1 (see assigned safety classification in Table 1)
- For C318, change chemical formula from C_4F_8 to $-(CF_2)_4$ (see chemical formula in Table 1). Change 2001 Safety Group from A1 to (see safety classification in Table 1)
- For 406A, change 2001 Safety Group from A1 to A2 (see assigned safety classification in Table 2)
- For 600a, change chemical formula from CH(CH₃)₃ to CH(CH₃)₂CH₃
- For 1140, change 2001 Safety Group from B3 to NC

Note: R-1140 was not safety classified in ASHRAE 34-1989. It was initially safety classified and listed in table 1 of ASHRE 34-1997, but removed later withdrawn from the standard with the publication of Addendum 34a.

16 Appendix C, Table C; erroneous inclusion of material:

For 34f description, delete the word "provisional." The assignment of a safety classification of R-407E was not provisional.