

**ERRATA SHEET FOR ANSI/ASHRAE STANDARD 103-2007**  
**Methods of Testing for Annual Fuel Utilization Efficiency of**  
**Residential Central Furnaces and Boilers**

**August 26, 2016**

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 103-2007. The first printing is identified on the outside back cover as “86318 6/08”, the second printing as “Product code: 86318 8/13” and the third printing as “Product code 86318 7/15 *Errata Dated June 20, 2016 has been corrected.*” The shaded item has been added since the previously published errata sheet dated June 20, 2015 was distributed. The erratum identified with an asterisk “\*” applies only to the second printing. Only the shaded erratum applies to the third printing.

**Page    Erratum**

**28\***    **Table 8 Fuel Characteristics and Parameters for Calculating Steady-State Sensible Heat Loss ( $L_{s,ss}$ ) and Steady-State Efficiency ( $Eff_{ss}$ ).** In the equation at the top of Table 8 change “ $,S,SS =$ ” to “ $L_{s,ss} =$ ”.

**28**    **Table 8 Fuel Characteristics and Parameters for Calculating Steady-State Sensible Heat Loss ( $L_{s,ss}$ ) and Steady-State Efficiency ( $Eff_{ss}$ ).** Under *CF* (5) for No. 2 Fuel Oil replace “ $1.5029209 \times 10^{-16}$ ” with “ $-1.5029209 \times 10^{-16}$ ”.

**50**    **Informative Appendix C – Calculation of Furnace and Boiler Comparative Average Annual Cost.** Replace the current equation for burner operating hours ( $BOH_{ss}$ ) and add a new variable  $K_4$  as shown below.

Replace the current equation for  $BOD_{ss}$

$$BOH_{ss} = 2080(0.77)(A)(Q_{OUT}/(1 + \alpha)) - 2080(B)$$

with the corrected equation

$$BOD_{ss} = 2080(0.77)(A)((Q_{OUT}/K_4)/(1 + \alpha)) - 2080(B)$$

Add the new variable  $K_4$  as defined below.

where

$K_4$  = Conversion factor, 1000 Btu/kBtu or 1000 Btu per hr/kBtu per hour