ERRATA SHEET FOR
ANSI/ASHRAE STANDARD 30-2019
Method of Testing Liquid Chillers

May 18, 2023

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 30-2019. The first printing of 30-2019 is identified as "Product Code: 86087 5/19" on the outside back cover. Shaded items have been added since the previously published errata sheet dated February 2, 2022 was distributed

Page **Erratum** *(Note: Additions are shown in underline and deletions are shown in strikethrough.)*

7 **5.4.2.2.** In the W_{input} equation, change the subscript i to j as shown below.

$$W_{input} = \sum_{i} W_i + \sum_{\text{~~i~~}\underline{j}} Q_j$$

8 **5.4.4.2.** In both the equation and the table header, correct the variable symbol for pipe roughness to be the lower-case Greek letter epsilon. Change ∈ to ε as shown below.

$$f = \frac{0.25}{\left[\log_{10}\left(\frac{\text{~~∈~~}\,\varepsilon/d}{3.7} + \frac{5.74}{\mathrm{Re}^{0.9}}\right)\right]^2}$$

Commercial Pipe, New Condition	**~~∈~~ ε (rms)**	
	ft	**m**
Steel	1.8×10^{-4}	5.5×10^{-5}
Plastic	6.0×10^{-6}	1.8×10^{-6}

12 **5.7.7.3.** Revise Section 5.7.7.3 as shown below.

5.7.7.3 When two or more figures fall to the right of the last figure to be retained, they are to be considered as a group in rounding decisions. Thus in 2.4(501), the group "(501)" is considered to be greater than five ~~less than five~~, while for 2.5(499), "(499)" is considered to be less than five ~~greater than five~~.

15 **6.3.1.4.1.1.** In the first sentence of Section 6.3.1.4.1.1 change the word "optical" to "optional" as shown below.

6.3.1.4.1.1 Units with an optional ~~optical~~ integrated evaporator or condenser liquid pump shall be tested in either of the following two configurations.

22 **Table 6-6 Definition of Operating Condition Tolerances and Stability Criteria *(Continued).*** For evaporator or condenser, entering air mean dry-bulb temperature, heating (frosting), change the stability criteria term from "5.6" to "0.56" as shown below.

Heating portion: $s_T \leq$ 0.56 ~~5.6~~ Δ°C [1.00 Δ°F]

31 **11. Normative References.** Change the date on Reference 2 in Section 11 from 1999 to 2001 as shown below.

2. ASHRAE. 2001~~1999~~. *Develop Design Data on Pressure Loss of Large Pipe Fittings*. Final Report RP-1034. Atlanta: ASHRAE