

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

**February 2, 2022**

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 March 9, 2021 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.

$$W_{input} = \sum_i W_i + \sum_j Q_j$$

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  $\epsilon$  to  $\varepsilon$  as shown below.

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

Commercial Pipe, New Condition	$\varepsilon$ (rms)	
	ft	m
Steel	$1.8 \times 10^{-4}$	$5.5 \times 10^{-5}$
Plastic	$6.0 \times 10^{-6}$	$1.8 \times 10^{-6}$

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:  $s_T \leq \underline{0.56} \ \cancel{5.6} \ \Delta^\circ\text{C} [1.00 \ \Delta^\circ\text{F}]$