

**ERRATA SHEET FOR
ANSI/ASHRAE STANDARD 37-2009
Methods of Testing for Rating Electrically Driven Unitary
Air-Conditioning and Heat Pump Equipment**

March 27, 2019

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 37-2009. The first printing of 37-2009 is identified as “Product Code: 86094 9/09” on the outside back cover and the second printing is identified as “Product code: 86094 12/12 *Errata noted in the list dated 2/15/2012 have been corrected.*” The shaded items have been added since the previously published errata sheet dated October 3, 2016 was distributed. Errata identified with an asterisk “*” applies only to the first printing.

Page Erratum

- 11** **7.3.3.1.** Revise the equations in Section 7.3.3.1 as shown below.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

$$c_{pa1} = 1005 + \underline{1859} \cancel{1805} W_1$$

$$[= 0.24 + 0.444 W_1]$$

$$c_{pa2} = 1005 + \underline{1859} \cancel{1805} W_2$$

$$[= 0.24 + 0.444 W_2]$$

- 12** **7.3.3.2.** Revise the equation in Section 7.3.3.2 as shown below.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

$$c_{pa4} = 1005 + \underline{1859} \cancel{1805} W_4$$

$$[= 0.24 + 0.444 W_4]$$

- 13*** **7.3.3.4.** In Section 7.3.3.4(a) change the SI equation as follows:
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

$$\dot{q}_l \cancel{\varphi}_l = (0.61 + 0.0053 D_i^{0.75} \Delta t^{1.25} + \underline{0.079879} \cancel{0.8} D_i \Delta t) L$$

$$[= (0.63 + 0.03 D_i^{0.75} \Delta t^{1.25} + 1.17 D_i \Delta t) L]$$

- 13*** **7.3.3.4.** In Section 7.3.3.4(b) change the SI equation as follows:
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

$$\dot{q}_l \cancel{\varphi}_l = (0.62 + \underline{0.031} \cancel{0.31} (Th)^{-0.33} D_i^{0.75} \Delta t^{1.25}) L$$

$$[= (0.64 + 0.06 (Th)^{-0.33} D_i^{0.75} \Delta t^{1.25}) L]$$

- 16** **7.6.5.1.** In Section 7.6.5.1 change the SI [I-P] equations for heating capacity to read as shown below.

$$q_{tho} = w_l c_{p_l} (t_{l3} - t_{l4}) + E_t$$

$$[= w_l c_{p_l} (t_{l3} - t_{l4}) + 3.41E_t]$$

- 17** **7.7.4.1.** Revise the equation in Section 7.7.4.1 as shown below.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

$$w_{ai} = q_{sri} / (1005 + \underline{1859} \del{1805} W_2)(t_{a5} - t_{a2})$$

$$[= q_{sri} / (0.24 + 0.444W_2)(t_{a5} - t_{a2})]$$

- 25*** **Table 4 Symbols (*continued*).** Change “ q_l ” to “ \dot{q}_l ”.