ERRATA SHEET FOR ANSI/ASHRAE STANDARD 225-2020
Method for Performance Testing Centrifugal Refrigerant Compressors and Condensing Units

April 2, 2025

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 225-2020. The first printing is identified on the outside back cover as "Product code: 86657 4/20".

(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

Page	Erratum

7 **5.8.1.1 Head Factor and Isentropic Efficiency for a Single-Stage Compressor.**
Revise Section 5.8.1.1 as shown below. Change is highlighted in yellow.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

5.8.1.1 Head Factor and Isentropic Efficiency for a Single-Stage Compressor.

[…]

$$\eta = \frac{\left[\sum_{i=1}^{NS} \dot{m}_i (h_{3_{iS}} - h_{2_{iS}})\right]}{P} \times \underline{0.000392979}\ \sout{0.02931} \qquad (4)$$

[…]

8 **5.8.1.1 Head Factor and Isentropic Efficiency for a Single-Stage Compressor.**
Revise Section 5.8.1.1 as shown below. Changes are highlighted in yellow.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

5.8.1.1 Head Factor and Isentropic Efficiency for a Single-Stage Compressor.

[…]

P = total power input to the UUT, kW (hp~~kW~~)

[…]

8 **5.8.1.2 Head Factor and Isentropic Efficiency for a Multistage Compressor.**
Revise Section 5.8.1.1 as shown below. Change is highlighted in yellow.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

5.8.1.2 Head Factor and Isentropic Efficiency for a Multistage Compressor.

[…]

$$\eta = \frac{\left[\sum_{i=1}^{NS} \dot{m}_i (h_{3_{iS}} - h_{2_{iS}})\right]}{P} \times \underline{0.000392979}\ \sout{0.02931} \qquad (8)$$

[…]

Page **Erratum**

9 **5.8.1.2 Head Factor and Isentropic Efficiency for a Multistage Compressor.** Revise Section 5.8.1.2 as shown below. Change is highlighted in yellow.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

5.8.1.2 Head Factor and Isentropic Efficiency for a Multistage Compressor.

[…]

P = total power input to the UUT, kW (hp~~kW~~)

[…]

10 **5.8.1.3 Head Factor and Isentropic Efficiency for a Two-Stage Compressor with Vapor Injection.** Revise Section 5.8.1.3 as shown below. Change is highlighted in yellow.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

5.8.1.3 Head Factor and Isentropic Efficiency for a Two-Stage Compressor with Vapor Injection.

[…]

$$\eta = \frac{\left[\dot{m}_1\left(h_{3_{1S}} - h_{2_{1S}}\right) + \dot{m}_2\left(h_{3_{2S}} - h_{2_{2S}}\right)\right]}{P} \times \underline{0.000392979}\ \text{~~0.02931~~} \qquad (12)$$

[…]

11 **5.8.1.3 Head Factor and Isentropic Efficiency for a Two-Stage Compressor with Vapor Injection.** Revise Section 5.8.1.3 as shown below. Change is highlighted in yellow.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

5.8.1.3 Head Factor and Isentropic Efficiency for a Two-Stage Compressor with Vapor Injection.

[…]

P = total power input to the UUT, kW (hp)

[…]

13 **5.8.1.4 Head Factor and Isentropic Efficiency for Compressors Connected in Series with Vapor Injection.** Revise Section 5.8.1.4 as shown below. Change is highlighted in yellow.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

Page	Erratum

5.8.1.4 Head Factor and Isentropic Efficiency for Compressors Connected in Series with Vapor Injection.

[…]

$$\eta = \frac{\left[\dot{m}_1\left(h_{3_{1S}} - h_{2_{1S}}\right) + \dot{m}_2\left(h_{3_{2S}} - h_{2_{2S}}\right)\right]}{P} \times \underline{0.000392979}\ \sout{0.02931} \qquad (21)$$

[…]

14 **5.8.1.4 Head Factor and Isentropic Efficiency for Compressors Connected in Series with Vapor Injection.** Revise Section 5.8.1.4 as shown below. Change is highlighted in yellow.
(Note: Additions are shown in underline and deletions are shown in ~~strikethrough~~.)

5.8.1.4 Head Factor and Isentropic Efficiency for Compressors Connected in Series with Vapor Injection.

[…]

P = total power input to the UUT, kW (hp)

[…]