
July 17, 2023

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 15-2022. The outside back cover marking identifying the first printing is “Product code: 86306 9/22”. Shaded items have been added since the previously published errata sheet dated May 30, 2023 was distributed.

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

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<td>7</td>
<td>3.1 Defined Terms. In Section 3.1 change the definition of <strong>system refrigerant charge</strong> from “mc” to “ms” as shown below.</td>
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**system refrigerant charge (ms)**: the total mass of refrigerant in an **independent circuit** of a system, including both factory and field refrigerant charge. |

| 12-15 | 7.3.2* Institutional Occupancies Refrigerant Systems Charge Limits. Remove the asterisk from Sections 7.3.2, 7.3.3 and 7.3.4 as shown below highlighted in yellow. |

| 13    | Figure 7-1 Refrigerant system charge limit compliance path – Part 1. Revise Figure 7-1 as shown in the attached. |

| 18    | 7.6.1.2* Other Refrigeration Systems. Revise Section 7.6.1.2 as shown below. |

**7.6.1.2* Other Refrigeration Systems.** For any refrigeration system not meeting the requirements of Section 7.6.1.1, the refrigerant charge of the largest **independent circuit** of the system (**ms**) shall not exceed the value from Equation 7-9:

\[ EDVC = M_{adf} \times F_{151} \times F_{occ} \] (7-9)

where

**EDVC** = effective dispersal volume charge, lb (kg) ft^3 (m^3)

[...]

| 20    | Table 7-2 Refrigerant Charge Limit (**M_{adf}**), kg (SI). Revise the middle column (Height = 1.80 m) of the first row (Floor Area = 5 m^2) of Table 7-2 as follows: |

| 21    | 7.6.4* Mechanical Ventilation. Revise Section 7.6.4 as shown below, to remove use of italics font. |

**7.6.4* Mechanical Ventilation.** Mechanical ventilation for refrigerant safety mitigation **shall** comply with this section. Where a **ventilated enclosure** is provided to control a refrigerant leak, the refrigeration system and **ventilated enclosure shall be listed** and installed in accordance with UL 60335-2-40^5/CSA C22.2 No. 60335-2-40^6 and **shall not** be required to comply with this...
section.

a. Mechanical ventilation shall be provided that will remove leaked refrigerant from the space where refrigerant leaking from the refrigeration system is expected to accumulate. The space shall be provided with an exhaust or transfer fan. Fans used to exhaust air or transfer air to a separate indoor space shall comply with Equation 7-10:

27 8.11.9. In Section 8.11.9 change “Section 8.11.6” to “Section 8.11.8” as shown below.

8.11.9 Refrigerant detectors required by Section 8.11.8 shall meet all of the following conditions:

[...]

29 Table 8-3 Calculation Method Equations. Revise the coefficient in one equation as shown below.

\[
Q' = 0.400 \times 6.67 \times P^{0.62} \quad \text{(SI)}
\]

31 Figure 8-2 Level 2 ventilation rate for Class 2L refrigerants (SI) with (b) detail.

Revise Figure 8-2 detail (b) as follows for five instances of chart labels:

- 1.9 L/s m³/s, 8.5 kg
- 1.6 L/s m³/s, 10 kg
- 1.4 L/s m³/s, 12 kg
- 1.2 L/s m³/s, 15 kg
- 0.88 L/s m³/s, 19 kg

63 INFORMATIVE APPENDIX A EXPLANATORY MATERIAL. Revise Informative Appendix A as shown below.

[...]

Section 7.3.2
When a refrigeration system does not have a refrigerant detector, there will not necessarily be circulation (or ventilation) airflow. Thus, systems in accordance with Section 7.3.2 (no refrigerant detection and/or no continuous airflow), must use the worst case distribution of leaked refrigerant.

Section 7.3.3
For refrigeration systems that do have a refrigerant detector but do not have ventilation, the airflow will mix leaked refrigerant throughout the spaces connected to ductwork; therefore, the volume of all rooms connected by ductwork is used.

Section 7.3.4
For refrigeration systems with refrigerant detection and ventilation, circulation will distribute leaked refrigerant throughout the rooms connected to the ductwork as well as locations connected to the ventilation.
Figure 7-1 Refrigerant system charge limit compliance path – Part 1

Is the equipment listed, self-contained, located in a commercial occupancy, not located in a public corridor or lobby, with a refrigerant charge $m_s \leq 22$ lb (10 kg)?

NO

YES

NO

YES