

**Question/Comment:**

Below are several proposed amendments to align with the change to A2L refrigerants.

Chapter 11 Refrigeration

[Add] 1101.2.1 Group A2L, A2, A3 and B1 high-probability equipment. High-probability equipment using Group A2L, A2, A3 or B1 refrigerant shall comply with UL/CSA 60335-2-40, or UL/CSA 60335-2-89.

[Add] 1102.1 General. Refrigeration systems using a refrigerant other than ammonia shall comply with this chapter and ASHRAE 15 [or ASHRAE 15.2]. ...

[Modify] Table 1104.1 - High probability systems. Occupancy groups where high-probability systems are listed as "Any" revised to "Any except A2, A3 and B2."

[Add] 1109.2.1 Flexible Connectors for Expansion and Vibration. Flexible connectors, expansion/vibration control devices and similar components shall be listed to UL 207 or CSA C22.2 No. 140.3 for the specific refrigerant used in the refrigeration systems, and design pressure.

[Substitute] 1109.3(5) with ASHRAE 15-2022 Section 9.12.1.5 and 9.12.2.

[Add] 1109.7 Exception (3) When installed within the building elements in a concealed location where aluminum tube, copper tube, or steel tube is installed through holes or notches in studs, joists, or similar members less than 1.5 in from the nearest edge of the member, the tube shall be protected by steel shield plates no less than 0.0575 in (1.461 mm) (ASTM 16 gage galvanized steel) (ASTM 15 gage plain steel). Protective steel shield plates shall cover the area of the tube the full length of the pipe and shall extend not less than 2.0 in. (51 mm) in all directions to prevent mechanical damage.

[Modify] 1109.10 Identification. Piping shall be in accordance with the reference standard for identification. The type of refrigerant, function and pressure shall be indicated. For Group A2L and B2L refrigerants, the identification shall also include the following statement: "WARNING - Risk of Fire. Flammable Refrigerant."

[Modify] 1116.2 Field Tests. Refrigerant-containing parts of a systems that is field-erected shall be tested and proved tight after complete installation and before the operation [in accordance with ASHRAE 15-2022 9.13]...

Chapter 18 Reference Standards

ASHRAE

15-2022 - Safety Standard for Refrigeration Systems

15.2-2022 - Safety Standard for Refrigeration Systems in Residential Applications

34-2022 - Designation and Safety Classification of Refrigerants

UL

UL/CSA 60335-2-40-2019 change to 2022

UL/CSA 60335-2-89-2017 change to 2021

**Question/Comment:**

Chapter 18

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ASHRAE 15-2019 change to ASHRAE 15-2022

ASHRAE 34-2019 change to ASHRAE 34-2022