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Required Changes to the 2018 International Residential Code to Comply with the A2L Refrigerant Related Code Provisions of the 2024 I-Codes

Based on the
2021 International Residential Code® and
2018 International Residential Code®

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2018 International Residential Code

CHAPTER 14: HEATING AND COOLING EQUIPMENT AND APPLIANCES

SECTION M1404—REFRIGERATION COOLING EQUIPMENT

M1404.1 Compliance. Refrigeration cooling *equipment* shall be listed and labeled in accordance with UL 484, UL 1995 or UL/CSA 60335-2-40.

SECTION M1411—HEATING AND COOLING EQUIPMENT

M1411.1 Approved refrigerants. Refrigerants used in direct refrigerating systems shall conform to the applicable provisions of ANSI/ASHRAE 34.

M1411.2 Refrigeration system listing. Refrigeration systems using Group A2L refrigerants shall be listed and labeled to UL/CSA 60335-2-40. Refrigeration systems using Group A1 refrigerants shall be listed to UL/CSA 60335-2-40 or UL 1995. The equipment shall be installed in accordance with the listing.

M1411.3 Refrigeration system installation. Refrigeration systems shall be installed in accordance with the manufacturer's installation instructions. After installation, the manufacturer's installation instructions, owner's manuals, service manuals and any other product literature provided with the equipment shall be attached to the indoor unit or left with the homeowner.

M1411.4 Field-installed accessories. Field-installed accessories shall be installed in accordance with the accessory and equipment manufacturer's installation instructions. Accessories installed in the ductwork of Group A2L refrigeration systems shall not contain electric heating elements, open flames, or devices switching electrical loads greater than 2.5 kVA.

M1411.5 Signs and identification. Each refrigeration system using Group A2L refrigerant shall have the following information legibly and permanently indicated on a markable label provided by the equipment manufacturer.

1. Contact information of the responsible company that installed the refrigeration system.
2. The system refrigerant charge and the refrigerant number.

M1411.6 Refrigerant charge. Refrigeration systems shall have refrigerant charge in compliance with the equipment manufacturer's installation instructions and the requirements of the listing. Group A2L refrigerant charge for an individual refrigeration system shall not exceed 34.5 pounds (15.7 kg).

M1411.7 Group A2L refrigerant piping testing. The piping system containing Group A2L refrigerant shall be tested in accordance with the manufacturer's installation instructions and the requirements of the listing.

[Sections M1411.2 – 1411.8 become Sections 1411.8 – 1411.14.]

SECTION M1412—ABSORPTION COOLING EQUIPMENT

M1412.1 Listed equipment. Absorption systems shall be installed in accordance with the manufacturer's instructions. Absorption *equipment* shall be listed and labeled in accordance with UL 1995 or UL/CSA 60335-2-40.

CHAPTER 20: BOILERS AND WATER HEATERS

SECTION M2006—POOL HEATERS

M2006.1 General. Pool and spa heaters shall be installed in accordance with the manufacturer's installation instructions. Oil-fired pool heaters shall be listed and labeled in accordance with UL 726. Electric pool and spa heaters shall be listed and labeled in accordance with UL 1261. Pool and spa heat pump water heaters shall be listed and labeled in accordance with UL 1995 or UL/CSA/ANCE 60335-2-40.

CHAPTER 44: REFERENCED STANDARDS

ASHRAE

ASHRAE
180 Technology Parkway
Peachtree Corners, GA 30092

ASHRAE 34-2022 Designation and Safety Classification of Refrigerants

UL

UL LLC
333 Pfingsten Road
Northbrook, IL 60062-2096

UL/CSA 60335-2-40—~~2012~~ 2022

Household and Similar Electrical Appliances—Safety—Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers