
40 C.F.R. § 84.54

Restrictions on the use of hydrofluorocarbons.

(a) No person may manufacture or import any product in the following sectors or subsectors that uses a regulated substance as listed in this paragraph:

(1) Effective January 1, 2025, self-contained residential and light commercial air conditioning and heat pump products using a regulated substance, or a blend containing a regulated substance, with a global warming potential of 700 or greater;

(2) Effective January 1, 2025, residential dehumidifiers using a regulated substance, or a blend containing a regulated substance, with a global warming potential of 700 or greater;

(3) Effective January 1, 2025, household refrigerators and freezers using a regulated substance, or a blend containing a regulated substance, with a global warming potential of 150 or greater;

(4) Effective January 1, 2025, retail food refrigeration—stand-alone units using a regulated substance, or a blend containing a regulated substance, with a global warming potential of 150 or greater;

(5) Effective January 1, 2025, vending machines using a regulated substance, or a blend containing a regulated substance, with a global warming potential of 150 or greater;

(6) Effective January 1, 2025, refrigerated transport—intermodal containers with the temperature of the refrigerant entering the evaporator (for direct heat exchange systems) or the temperature of the fluid exiting (for chillers) of $-50\text{ }^{\circ}\text{C}$ ($-58\text{ }^{\circ}\text{F}$) or higher using a regulated substance, or a blend containing a regulated substance, with a global warming potential of 700 or greater;

(7) Effective January 1, 2025, self-contained products in refrigerated transport—road and refrigerated transport—marine subsectors using any of the following: R-402A, R-402B, R-404A, R-407B, R-408A, R-410B, R-417A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R-424A, R-428A, R-434A, R-438A, R-507A, R-125/290/134a/600a (55/1/42.5/1.5), RS-44 (2003 formulation) or GHG-X5;

(8) Self-contained automatic commercial ice machines as follows:

(i) Effective January 1, 2026, ice maker products with a harvest rate as determined in accordance with 10 CFR 431.134, using a regulated substance, or a blend containing a regulated substance, with a global warming potential of 150 or greater as follows:

(A) Batch type, as defined in 10 CFR 431.132, with a harvest rate less than or equal to 1,000 pounds of ice per 24 hours;

(B) Continuous type, as defined in 10 CFR 431.132, with a harvest rate less than or equal to 1,200 pounds of ice per 24 hours;

(ii) Effective January 1, 2027, batch type ice maker products, as defined in 10 CFR 431.132, with a harvest rate greater than 1,000 pounds of ice per 24 hours, as determined in accordance with 10 CFR 431.134, and continuous type ice machine products, as defined in 10 CFR 431.132, with a harvest rate greater than 1,200 pounds of ice per 24 hours, as determined in accordance with 10 CFR 431.134, using any of the following: R-402A, R-402B, R-404A, R-407A, R-407B, R-407C, R-407F, R-408A, R-410A, R-410B, R-411A, R-411B, R-417A, R-417C, R-420A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R-424A, R-426A, R-428A, R-434A, R-437A, R-438A, R-442A, R-507A, HFC-134a, R-125/290/134a/600a (55/1/42.5/1.5), RB-276, RS-24 (2002 formulation), RS-44 (2003 formulation), GHG-X5, G2018C, or Freeze 12;

(9) Self-contained refrigerated food processing and dispensing products as follows:

(i) Effective January 1, 2027, products outside the scope of UL 621, “Ice Cream Makers,” Edition 7, dated May 07, 2010, with revisions through September 16, 2020, as of December 26, 2023, with refrigerant charge sizes less than or equal to 500 g using a regulated substance, or a blend containing a regulated substance, with a global warming potential of 150 or greater;

(ii) Effective January 1, 2027, products outside the scope of UL 621, “Ice Cream Makers,” Edition 7, dated May 7, 2010, with revisions through September 16, 2020, as of December 26, 2023, with refrigerant charge sizes greater than 500 g, using any of the following: R-402A, R-402B, R-404A, R-407A, R-407B, R-407C, R-407F, R-407H, R-408A, R-410A, R-410B, R-411A, R-411B, R-417A, R-417C, R-420A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R-424A, R-426A, R-427A, R-428A, R-434A, R-437A, R-438A, R-507A, HFC-134a, HFC-227ea, R-125/290/134a/600a (55/1/42.5/1.5), RB-276, RS-24 (2002 formulation), RS-44 (2003 formulation), GHG-X5, or Freeze 12; and

(iii) Effective January 1, 2028, for refrigerated food processing and dispensing products within the scope of UL 621, “Ice Cream Makers,” Edition 7, dated May 7, 2010, with revisions through September 16, 2020, as of December 26, 2023, using any of the following: R-402A, R-402B, R-404A, R-407A, R-407B, R-407C, R-407F, R-407H, R-408A, R-410A, R-410B, R-411A, R-411B, R-417A, R-417C, R-420A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R-424A, R-426A, R-427A, R-428A, R-434A, R-437A, R-438A, R-507A, HFC-134a, HFC-227ea, R-125/290/134a/600a (55/1/42.5/1.5), RB-276, RS-24 (2002 formulation), RS-44 (2003 formulation), GHG-X5, or Freeze 12.

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