

What is Being Regulated? When?



**RESTRICTED PRODUCTS BY
SECTOR AND SUBSECTOR**

**SELF-CONTAINED
REFRIGERATION EQUIPMENT**

Restricted Products



Self-contained Refrigeration, Air Conditioning, and Heat Pumps – Restricted Products by Sector and Subsector Table*

Subsector	Product	GWP Limit or Prohibited Substances	Manufacture and Import Compliance Date ¹
Cold storage warehouses	With 200 or more lbs. refrigerant charge, excluding high temperature side of cascade system	150	January 1, 2026
Cold storage warehouses	With less than 200 lbs. refrigerant charge	300	January 1, 2026
Cold storage warehouses	High temperature side of cascade system	300	January 1, 2026

*These tables are for informational purposes only and should not be relied on for compliance purposes. Please refer to 40 CFR Part 82, Subpart B for full details.

Footnotes and comments:

1. Sale, distribution, and export of these products is prohibited three years after the manufacture and import compliance date.
2. See regulatory text for specific types of aerosol products subject to the later compliance date. Excludes metered dose inhalers using HFC-134a or HFC-227ea or defense sprays using HFC-134a as a propellant.
3. Includes blown foam, products incorporating blown foam, and pre-blended polyol products. Excludes composite structural preformed polyurethane foam for trailer use and for marine use.
4. New products only; does not apply to equipment that is operational during transport.
5. EPA is restricting the installation of new field-assembled systems. Components used to repair existing systems are not subject to these restrictions.



Restricted Products

Self-contained Refrigeration, Air Conditioning, and Heat Pumps – Restricted Products by Sector and Subsector Table*

Subsector	Product	GWP Limit or Prohibited Substances	Manufacture and Import Compliance Date ¹
Residential dehumidifiers	Residential dehumidifiers	700	January 1, 2025
Chillers (as a stand-alone product)	Industrial process refrigeration with exiting fluid below -50 °C (-58 °F)	Not covered	Not covered
Chillers (as a stand-alone product)	Industrial process refrigeration with exiting fluid greater than or equal to -50 °C (-58 °F) and less than -30 °C (-22 °F)	700	January 1, 2028
Chillers (as a stand-alone product)	Industrial process refrigeration with exiting fluid equal to or above -30 °C (-22 °F)	700	January 1, 2026
Chillers (as a stand-alone product)	Comfort cooling	700	January 1, 2025
Chillers (as a stand-alone product)	Ice rinks	700	January 1, 2025
Data centers, computer room air conditioning, and information technology equipment cooling	Data centers, computer room air conditioning, and information technology equipment cooling	700	January 1, 2027

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Subsector	Product	GWP Limit or Prohibited Substances	Manufacture and Import Compliance Date ¹
Industrial process refrigeration (not using chillers)	With refrigerant entering the evaporator below -50 °C (-58 °F)	Not covered	Not covered
Industrial process refrigeration (not using chillers)	With refrigerant entering the evaporator equal to or above -50 °C (-58 °F) and less than -30 °C (-22 °F)	700	January 1, 2028
Industrial process refrigeration (not using chillers)	High temperature side of cascade system and temperature of the refrigerant entering the evaporator equal to or above -30 °C (-22 °F)	300	January 1, 2026
Industrial process refrigeration (not using chillers)	With less than 200 lbs. refrigerant charge and temperature of the refrigerant entering the evaporator equal to or above -30 °C (-22 °F)	300	January 1, 2026
Industrial process refrigeration (not using chillers)	With 200 or more lbs. refrigerant charge excluding high temperature side of cascade system and temperature of the refrigerant entering the evaporator equal to or above -30 °C (-22 °F)	150	January 1, 2026
Retail food - refrigeration stand-alone units	Retail food - refrigeration stand-alone units	150	January 1, 2025

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Self-contained Refrigeration, Air Conditioning, and Heat Pumps – Restricted Products by Sector and Subsector Table*

Subsector	Product	GWP Limit or Prohibited Substances	Manufacture and Import Compliance Date ¹
Retail food - refrigerated food processing and dispensing equipment	500 g of refrigerant or less and outside scope of UL 621, edition 7	150	January 1, 2027
Retail food - refrigerated food processing and dispensing equipment	More than 500 g of refrigerant and outside scope of UL 621, edition 7	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, Freeze 12	January 1, 2027
Retail food - refrigerated food processing and dispensing equipment	Ice cream makers within the scope of UL 621, edition 7	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, Freeze 12	January 1, 2028

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Subsector	Product	GWP Limit or Prohibited Substances	Manufacture and Import Compliance Date ¹
Self-contained automatic commercial ice machines	Batch type: harvest rate ≤1,000 lbs. ice per 24 hours	150	January 1, 2026
Self-contained automatic commercial ice machines	Continuous type: harvest rate ≤1,200 lbs. ice per 24 hours	150	January 1, 2026
Self-contained automatic commercial ice machines	Batch type: harvest rate above 1,000 lbs. ice per 24 hours	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-507, 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, Freeze 12	January 1, 2027
Self-contained automatic commercial ice machines	Continuous type: harvest rate above 1,200 lbs. ice per 24 hours	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-507, 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, Freeze 12	January 1, 2027

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Uses NOT Covered



Not Covered	Commentary
Manufacture, Import, Sale, Distribution and Export of Components	<ul style="list-style-type: none">• Specified components* are condensing units, condensers, compressors, evaporator units, and evaporators.<ul style="list-style-type: none">• In some instances, such as a display case in a supermarket, specified components may also be viewed as products or appliances themselves. They still must be connected to a refrigerant circuit in order to function, [so not covered].• <u>Labeling, reporting and recordkeeping is required.</u>
Used Equipment	Products, components, or systems that have been in the ownership of someone other than a manufacturer, importer, or distributor, and have experienced ordinary operation or utilization by a consumer.
Equipment in Existence	Equipment in existence in a sector or subsector before December 27, 2020.
Repair and Servicing	A product or system may be serviced and repaired throughout its useful life , including the replacement of components.
Retrofit Applications	No restrictions on the use of HFCs in retrofit applications

* EPA explained in multiple sections their intention is to allow repair/replacement of existing systems during its useful life. This is the main reason “specified component” is not regulated by EPA’s TT rule and a reason why OEMs can still build HFC “components” during and post-sell through period.