

## Summary of New York State Final HFC Equipment and Refrigerant Prohibitions

[Link to final regulations](#)

### Brief Summary:

The New York State Department of Environmental Conservation (DEC) has finalized rules to phase out the use of Hydrofluorocarbon (HFC) refrigerants and move to ultra-low GWP refrigerants in the future. The new regulations under Part 494 will dramatically impact HVACR products sold and installed in New York State. The final regulation impacts five main areas:

- Prohibitions on sales of bulk refrigerants (HFCs, HCFCs, and CFCs)
- Prohibitions on sales and installation of equipment using HFC refrigerants
- Labeling and disclosure requirements
- Recordkeeping and reporting requirements for manufacturers, producers, suppliers/distributors, and users of HFC refrigerants
- Leak repair requirements and an end-user refrigerant management program

### Information to note:

- The rule goes into effect on January 9, 2025. The rule is set to go into effect 30 days after the regulation was filed with the New York State Register. The final regulation was filed on December 10, 2024, and published on December 24, 2024.
- According to the DEC, the ban on bulk regulated substances does not apply to reclaimed refrigerants. End-users banking their recovered refrigerants can also use their recovered refrigerant as allowed under federal law.
- The equipment prohibitions apply to the manufacturing and sale of self-contained products and the installation of field-charged systems. This product and system classification is the same as the EPA's Technology Transition Rule.
  - Unlike the EPA rule, the DEC only provided a one-year sell-through for products manufactured before the prohibition date.
- Retrofits to lower GWP refrigerants are banned on January 1, 2029.
- Replacing an outdoor condensing unit is considered an installation of new air conditioning equipment requiring low-GWP replacement after the prohibition date.
- Other residential and commercial HVAC subsectors include heat pump water heaters, clothes dryers, pool or spa heaters, and dehumidifiers.
- Ultra-low temperature (-50° C or -58° F) exempt from equipment prohibition.
- New York State uses the GWP20 measurement instead of the widely used GWP100. However, some provisions refer to other laws that use GWP100. All references to GWP should contain a 20 or 100 identifier.
  - GWP20 values are from or calculated using the Intergovernmental Panel on Climate Change (IPCC) Assessment Report 6 (AR6).
  - GWP100 values are from or calculated using the IPCC AR4.

---

For additional information, contact Todd Titus ([ttitus@hardinet.org](mailto:ttitus@hardinet.org)) or Alex Ayers ([aayers@hardinet.org](mailto:aayers@hardinet.org)).

**Table of common refrigerants with GWP100 and GWP20 values for reference from DEC:**

<b>Refrigerant</b>	<b>Type</b>	<b>GWP100</b>	<b>GWP20</b>
<b>R-507A</b>	HFC	3,985	7,290
<b>R-404A</b>	HFC	3,922	6,600
<b>R-407A</b>	HFC	2,107	4,500
<b>R-410A</b>	HFC	2,088	4,400
<b>R-22</b>	HCFC	1,960	5,310
<b>R-407C</b>	HFC	1,774	4,100
<b>R-134a</b>	HFC	1,430	3,810
<b>R-448A</b>	HFC/HFO	1,386	3,100
<b>R-449A</b>	HFC/HFO	1,396	3,100
<b>R-32</b>	HFC	675	2,530
<b>R-452B</b>	HFC/HFO	698	2,100
<b>R-454B</b>	HFC/HFO	465	1,700
<b>R-454A</b>	HFC/HFO	237	918
<b>R-454C</b>	HFC/HFO	146	565
<b>R-471A</b>	HFC/HFO	144	271
<b>R-1234ze</b>	HFO	1	4
<b>R-1234yf</b>	HFO	1	1
<b>R-744 (CO<sub>2</sub>)</b>	Non-fluorinated	1	1
<b>R-600a (Iso-butane)</b>	Non-fluorinated	<1	<1
<b>R-290 (Propane)</b>	Non-fluorinated	<1	<1
<b>R-1270 (Propylene)</b>	Non-fluorinated	<1	<1
<b>R-717 (Ammonia)</b>	Non-fluorinated	0	0

### **Bulk Virgin Refrigerant Prohibitions – Part 494 1.4(f):**

Compliance with the bulk virgin refrigerant prohibitions is based on GWP level and the sale/transfer/receipt of refrigerants.

- DEC allows sales of reclaimed refrigerant after prohibition.
- End-users with recovered refrigerants can continue using recovered refrigerants in their systems, including those brought in from out-of-state. Recovered refrigerant in their possession is not a sale/transfer, and Part 494 1.2(c) allows end-users to continue to use products and equipment containing refrigerant acquired before the prohibition date to continue to use that product or equipment.
- The refrigerants listed are not an exhaustive list of prohibited refrigerants; confirm the GWP100 level of any refrigerant before sale.

<b>GWP Limitation (Note change to GWP20 in 2040)</b>	<b>Prohibition Date</b>	<b>Common Banned Refrigerants</b>
Bulk regulated substances with a GWP100 $\geq$ 2,200	January 9, 2025	R-404A, R-507A, R-422B, R-125, R-410B*, R-438A
Bulk regulated substances with a GWP100 $\geq$ 1,500	January 1, 2030	R-410A, R-407A, R-407C, R-453A
Bulk regulated substances with a GWP100 $\geq$ 750	January 1, 2033	R-134a, R-448A, R-449A
Bulk regulated substances with a GWP20 $\geq$ 1600	January 1, 2040	R-32, R-452B, R-454B
*R-410B is not a SNAP approved refrigerant, but has entered the market to avoid tariffs		

Note: Nothing in this regulation requires a person that acquired a product or equipment containing a prohibited substance prior to the applicable date of prohibition listed in section 494-1.4 of this Part to cease use of that product or equipment.

## Equipment Prohibitions Summary – Part 494 1.4(e):

Compliance is split into two types, installation date and manufacture date with sell-through:

- No person may install a field charged system in New York State, nor have any such system be installed through their position as a designer, owner, or operator of that system, in the following sectors or subsectors that uses a prohibited substance as listed in the tables in subdivision 494-1.4(e) of this section after the prohibition date indicated.
- Effective one year after the prohibition date, no person may sell, distribute, offer for sale or distribution, make available for sale or distribution, purchase or receive for sale or distribution, or attempt to purchase or receive for sale or distribution in New York State any product that uses a prohibited substance as listed in the tables in subdivision 494-1.4(e) of this section.
- When DEC and EPA dates conflict, the more restrictive date applies.

Comparison of Table in Subdivision 494-1.4(e) with EPA Technology Transition Rule dates:

*(Please note, only upcoming prohibitions and HVACR-relevant topics are listed)*

### Air Conditioning

Sector/Subsector	NY State GWP Limit and Deadline* *Prohibition dates apply to installation and manufacture, self-contained units have an additional one-year sell-through	U.S. EPA GWP Limit and Deadline* *Prohibition dates apply to installation and manufacture, self-contained units have an additional three-year sell-through
Chillers	For comfort cooling, >700 GWP100 prohibited on 1/9/2025 (Chillers for refrigeration fall under refrigeration categories)	>700 GWP100 prohibited by operating temperature:
		Comfort cooling: 1/1/2025
		< -50 °C (-58 °F): exempt
		-50 °C (-58 °F) to -30 °C (-22 °F): 1/1/2028
	>20 GWP20 prohibited on 1/1/2030	> -30 °C (-22 °F): 1/1/2026
Heat Pump Chillers	For comfort cooling >700 GWP100 prohibited on 1/9/2025	Same as above, EPA does not differentiate between chillers and heat pump chillers
	>20 GWP20 prohibited on 1/1/2034	

*Table continues on next page*

<b>Sector/Subsector</b>	<b>NY State GWP Limit and Deadline*</b>	<b>U.S. EPA GWP Limit and Deadline*</b>
Residential and light commercial air conditioning and heat pumps – split systems	>700 GWP100 install prohibited on 1/1/26	>700 GWP100 manufacturing prohibited on 1/1/25 and install prohibited on 1/1/26
	>10 GWP20 prohibited on 1/1/2034	
Residential and light commercial air conditioning and heat pumps – package equipment	>700 GWP100 manufacturing prohibited on 1/1/26 and one-year sell-through	>700 GWP100 manufacturing prohibited on 1/1/25 and three-year sell-through
	>10 GWP20 prohibited on 1/1/2034	
VRF systems (DEC does not limit VRF systems to >65,000 Btus)	>700 GWP100 prohibited on 1/1/2026	>700 GWP100 manufacturing prohibited on 1/1/26 and install prohibited on 1/1/27
	>10 GWP20 prohibited on 1/1/2030	
Other residential HVAC (includes heat pump water heaters, pool and spa heaters, and clothes dryers)	>10 GWP20 prohibited on 1/1/2027	No similar EPA limitation
Other commercial HVAC (includes heat pump water heaters, clothes dryers, and dehumidifiers)	>10 GWP20 prohibited on 1/1/2034	No similar EPA limitation
Data centers	>2690 GWP20 prohibited on 1/1/2026	>700 GWP100, install prohibition on 1/1/2027
	>10 GWP20 prohibited on 1/1/2030	

*Table continues on next page*

## Refrigeration

Sector/Subsector	NY State GWP Limit and Deadline*	U.S. EPA GWP Limit and Deadline*
Refrigerated food processing and dispensing equipment	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 prohibited on 1/1/2027	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 prohibited on 1/1/2027
	>10 GWP20 prohibited on 1/1/2034	
Supermarkets	≥50 pounds of refrigerant: >580 GWP20 prohibited on 1/1/2026	≥200 pounds of refrigerant: >150 GWP100 prohibited on 1/1/2027
	<50 pounds of refrigerant: >943 GWP20 prohibited on 1/1/2026	<200 pounds of refrigerant: >300 GWP100 prohibited on 1/1/2027
	>10 GWP20 prohibited on 1/1/2034	High temperature side of cascade systems: >300 GWP100 prohibited on 1/1/2027

*Table continues on next page*

<b>Sector/Subsector</b>	<b>NY State GWP Limit and Deadline*</b>	<b>U.S. EPA GWP Limit and Deadline*</b>
Refrigeration - Remote Condensing Units	≥50 pounds of refrigerant: >580 GWP20 prohibited on 1/1/2026	≥200 pounds of refrigerant: >150 GWP100 prohibited on 1/1/2026
	<50 pounds of refrigerant: >943 GWP20 prohibited on 1/1/2026	<200 pounds of refrigerant: >300 GWP100 prohibited on 1/1/2026
	>10 GWP20 prohibited on 1/1/2034	High temperature side of cascade system: >300 GWP100 prohibited on 1/1/2026
Stand-alone units – medium temperature	>150 GWP100 prohibited on 1/9/2025	>150 GWP100 prohibited on 1/1/2025
	>10 GWP20 prohibited on 1/1/2034	
Stand-alone units – low-temperature	>150 GWP100 prohibited on 1/9/2025	>150 GWP100 prohibited on 1/1/2025
	>10 GWP20 prohibited on 1/1/2034	
Cold storage warehouses	≥50 pounds of refrigerant: >580 GWP20 prohibited on 1/1/2026	≥200 pounds of refrigerant: >150 GWP100 prohibited on 1/1/2026
	<50 pounds of refrigerant: >943 GWP20 prohibited on 1/1/2026	<200 pounds of refrigerant: >300 GWP100 prohibited on 1/1/2026
	>10 GWP20 prohibited on 1/1/2034	High-temperature side of cascade system: >300 GWP100 prohibited on 1/1/2026
Ice rinks	>580 GWP20 prohibited on 1/1/2026	>700 GWP100 prohibited on 1/1/2025
	>10 GWP20 prohibited on 1/1/2030	

*Table continues on next page*

<b>Sector/Subsector</b>	<b>NY State GWP Limit and Deadline*</b>	<b>U.S. EPA GWP Limit and Deadline*</b>
Industrial process refrigeration	≥50 pounds of refrigerant: >580 GWP20 prohibited on 1/1/2026	≥200 pounds of refrigerant: >150 GWP100 prohibited on January 1, 2026
	<50 pounds of refrigerant: >943 GWP20 prohibited on 1/1/2026	<200 pounds of refrigerant: >300 GWP100 prohibited on January 1, 2026
	>10 GWP20 prohibited on 1/1/2034	High temperature side of cascade systems and temperature of the refrigerant entering the evaporator above -30 °C (-22 °F): >300 GWP100 prohibited on 1/1/2026
		Temperature of the refrigerant entering the evaporator from -50 °C (-58 °F) to -30 °C (-22 °F): >700 GWP100 prohibited on 1/1/2026
		Temperature of the refrigerant entering the evaporator below -50 °C (-58 °F): No restriction
Industrial process refrigeration – chillers	>943 GWP20 prohibited on 1/1/2026	See Chillers above for EPA rules
	>10 GWP20 prohibited on 1/1/2030	
New refrigeration facility (≥200 pounds of refrigerant)	>10 GWP20 prohibited on 1/1/2026	No similar EPA category

*Table continues on next page*



<b>Sector/Subsector</b>	<b>NY State GWP Limit and Deadline*</b>	<b>U.S. EPA GWP Limit and Deadline*</b>
Automatic Commercial Ice Makers – self-contained	Batch type producing <1,000 pounds per 24 hours or continuous type producing <1,200 pounds per 24 hours: >150 GWP100 prohibited on 1/1/2026	Batch type producing <1,000 pounds per 24 hours or continuous type producing <1,200 pounds per 24 hours: >150 GWP100 prohibited on 1/1/2026
	Batch type producing ≥1,000 pounds per 24 hours or continuous type producing ≥1,200 pounds 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-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 are prohibited on 1/1/2027	Batch type producing ≥1,000 pounds per 24 hours or continuous type producing ≥1,200 pounds 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-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 are prohibited on 1/1/2027
Automatic Commercial Ice Makers – remote condensing unit	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 prohibited on 1/1/2027	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 prohibited on 1/1/2027

**Exemptions to the above prohibitions:**

Subsector	Regulated Substance	Acceptable Uses
Air conditioning - Chillers	HFC-134a	Military marine vessels where reasonable efforts have been made to ascertain that other alternatives are not technically feasible due to performance or safety requirements.
Air conditioning - Chillers	HFC-134a and R404A	Human-rated spacecraft and related support equipment where reasonable efforts have been made to ascertain that other alternatives are not technically feasible due to performance or safety requirements.
All Subsectors	Any substance prohibited from use in equipment listed in the above table (Part 494-1.4(e))	Products after a period of ordinary utilization or operation by a consumer; or products within the disposal or recycling chain. (Used equipment)
All Sectors	Any substance prohibited from use in equipment listed in the above table (Part 494-1.4(e))	Very low temperature applications
All Sectors	Any substance prohibited from use in equipment listed in the above table (Part 494-1.4(e))	Systems retrofitted to use a lower GWP20 substitute, until January 1, 2029.
Airconditioning and Refrigeration Sectors	Any substance prohibited from use in equipment listed in the above table (Part 494-1.4(e)(2) and (3))	The prohibition date is extended one year for the installation of a system with a prohibition date that occurs prior to January 1, 2027, when an approved building permit issued prior to the effective date of this Part specifies the use of a restricted regulated substance, or blend containing a regulated substance, in a system detailed in that permit.

**Variances**

The regulation includes a variance process that can take up to 120 days to complete. Variances are allowed for impossibility, force majeure events, and economic hardship. A full list of requirements to qualify for a variance are available on [page 42](#).