

WHAT YOU NEED TO KNOW FOR JANUARY 1, 2025

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#### **Webinar Technical Overview**

#### **Call-in Details**

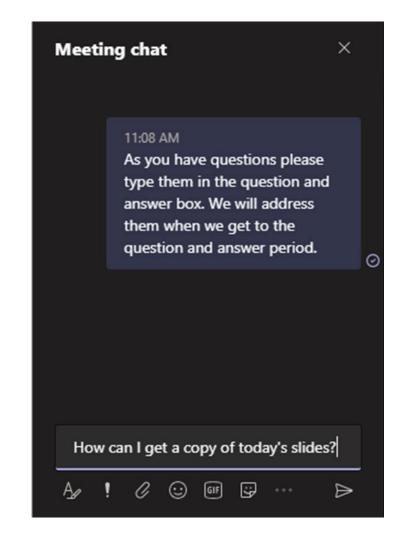
1-206-800-4483

October 17 ID: 146 702 07#

October 22 ID: 569 346 463#

#### Question and Answer (Q&A) Session

- Participants are muted
- Questions will be moderated at the end
- To ask a question, enter it into the chat box





#### Webinar Feedback and Materials

#### Recording and Slides

- The presentation is being recorded
- Materials from this webinar will be posted on the EPA's Reducing HFCs Public Meetings web page: <a href="www.epa.gov/climate-hfcs-reduction/public-meetings">www.epa.gov/climate-hfcs-reduction/public-meetings</a>



#### **Outline**

- Global Phasedown and AIM Act
- Technology Transitions Program
  - General Requirements:
    - Labeling, Reporting, Recordkeeping
  - Aerosols Requirements
  - Foams Requirements
  - Refrigeration, Air Conditioning, and Heat Pump Requirements
- Additional Resources
- Recap



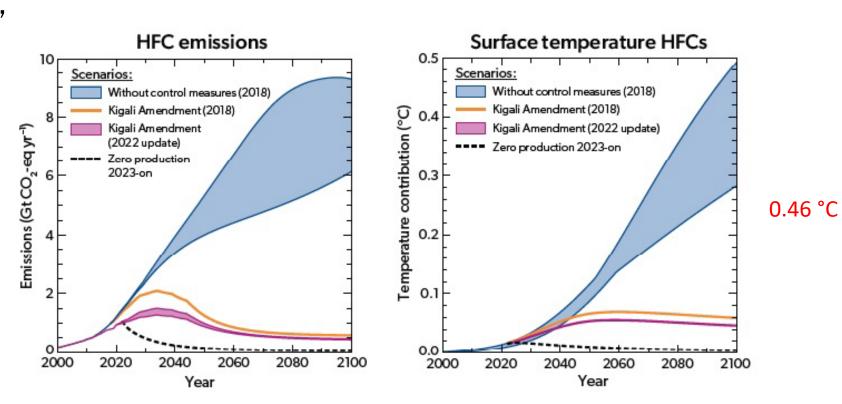


# Global Hydrofluorocarbons (HFC) Phasedown and AIM Act



# A global HFC phasedown is expected to avoid up to 0.5°C of global warming by 2100

- HFCs are used in refrigeration, air conditioning, foam blowing, aerosols, and fire suppression
- HFCs are climate-damaging greenhouse gases with global warming potentials (GWPs) hundreds to thousands of times higher than carbon dioxide (CO<sub>2</sub>)
- Absent effective regulations, HFC use and emissions are expected to continue increasing rapidly worldwide



WMO Scientific Assessment of Ozone Depletion: 2022, GAW Report No. 278, Figure ES-4

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# The American Innovation & Manufacturing (AIM) Act

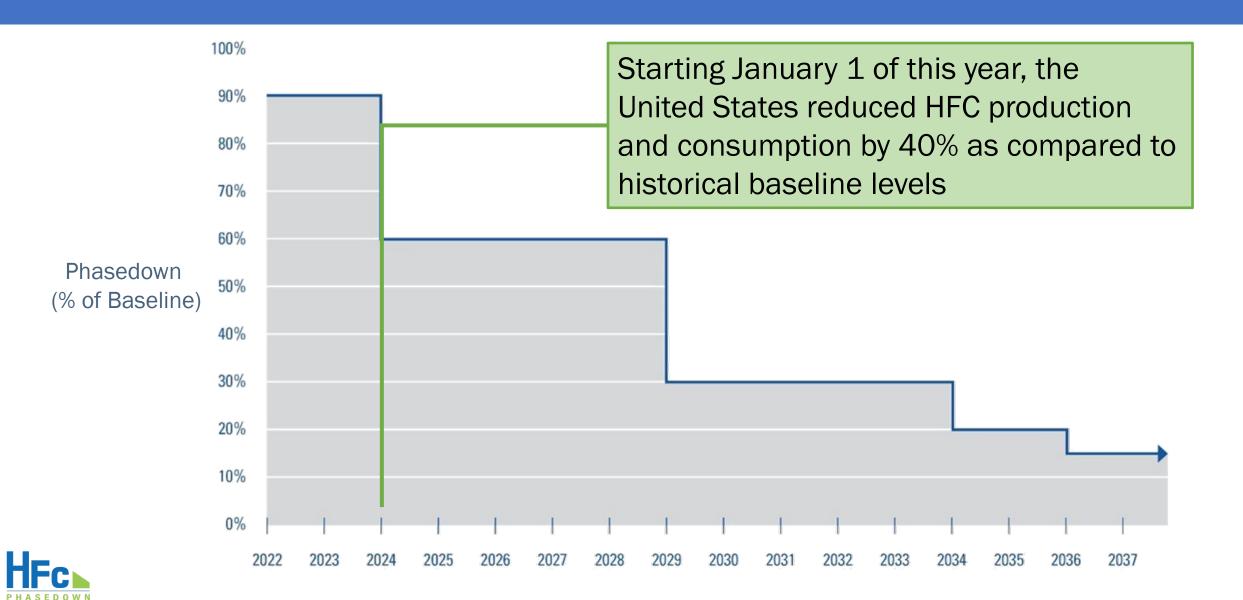
By 2036, The AIM Act phases down HFC production and consumption by:

85%

Lists 18 HFCs as regulated substances



#### **HFC Phasedown Schedule**



# The American Innovation & Manufacturing (AIM) Act

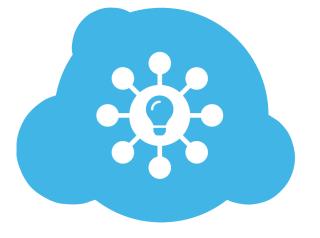
The AIM Act authorizes EPA to regulate HFCs in three main ways:



Phase down HFC production and consumption through an allowance allocation and trading program



Manage use and reuse of HFCs by maximizing reclamation and minimizing releases from equipment



Transition sectors to next-generation technologies through restrictions on use of HFCs (focus of this presentation)



# **Overview of Regulatory Actions to Date**



# Technology Transitions Program



# Overview of Subsection (i) – Technology Transitions

- Subsection (i) of the AIM Act authorizes EPA to restrict HFC uses
  - EPA can restrict, fully, partially, or on a graduated schedule, the use of regulated HFCs in any sector or subsector where HFCs are used
- EPA can initiate rulemakings on its own, or individuals and organizations can petition EPA











## **Technology Transitions Petitions**

- Public may petition EPA to establish restrictions on sectors and subsectors where HFCs are used
- Petition process info on our website:
  - www.epa.gov/climate-hfcsreduction/overview-petition-process
- AIM Act directs EPA to respond within a certain timeframe:
  - Grant or deny the petition within 180 days of receipt
  - Finalize a rule within two years of granting the petition

#### **Petition Status**

This table presents the current status of petitions received from newest to oldest:

Show 8 ventries Search all columns:				×
Filters				Filt: ~
<b>Petitioner</b>	Receipt Date ▼	<b>Topic</b>	Please Submit Information ⇔ to the Docket by*:	Status ⇔
Natural Resources Defense Council (NRDC), et al.	4/13/2021	Replicate HFC Prohibitions from SNAP Rules 20 & 21	6/8/2021	<u>Granted</u>
Environmental Investigation Agency (EIA), et al.	4/13/2021	Restrict the Use of HFCs in Certain Stationary Refrigeration and Air Conditioning End-uses	6/8/2021	<u>Granted</u>
Air-Conditioning, Heating, and Refrigeration Institute (AHRI), et al.	4/13/2021	Restrict the Use of HFCs in Residential and Light Commercial Air Conditioners	6/8/2021	<u>Granted</u>



## **Statutory Factors**

EPA must consider, to the extent practicable, the following factors when considering potential restrictions:

- A. Best available data
- B. Availability of substitutes:
  - technological achievability
  - commercial demands
  - safety
  - consumer costs
  - building codes

- appliance efficiency standards
- affordability for residential and small business consumers
- other relevant factors, including the quantities of regulated substances available from reclaiming, prior production, or prior import
- C. Overall economic costs and environmental impacts, as compared to historical trends
- D. Remaining phase-down period for regulated substances under the final Allocation Rule



#### 2023 Final Technology Transitions Rule – Overview

- Published October 24, 2023, <u>88 FR 73098</u>
- Restricts the use of higher-GWP HFCs in new equipment in over 40 subsectors across three sectors:
  - Aerosols
  - Foams
  - Refrigeration, air conditioning, and heat pump (RACHP)
- Requires labeling
- Requires annual reporting
- Establishes a process for responding to future petitions





# Overview of Key Requirements

#### Restrictions

Compliance dates vary based on sector and subsector

- Earliest restrictions start
   January 1, 2025, or Model
   Year 2025 for light duty motor vehicles
- Latest restrictions start
   January 1, 2028

#### Labeling

New products and components using HFCs must be labeled based on compliance dates for the relevant subsector

#### Reporting

Companies that manufacture or import products and components covered by this rule must report annually to EPA

 First reports due March 31, 2026, based on 2025 data for all sectors



#### 2023 Final Technology Transitions Rule – Restrictions

#### RACHP, Foams, Aerosols

- Restricts the <u>domestic manufacture and import</u> of new products that use HFCs above the GWP limit
  - Import occurs at the time of arrival in the United States (time a ship berths for vessel arrivals, border crossings for land arrivals, and first point of terminus in U.S. jurisdiction for arrivals via air).
- Prohibits the sale, distribution, and export of non-compliant products after three years

Restriction on the installation for RACHP systems (RACHP only)



## **Final Rule Exemptions**

- The final rule exempts the following uses:
  - Used equipment in the covered subsectors (example: pre-owned vehicles)
  - Spray and pour foam used in space vehicles
  - Applications with a current qualification for application-specific allowances under subsection (e)(4)(B):
    - (1) Propellant in metered-dose inhalers
    - (2) Defense sprays
    - (3) Mission-critical military end uses
    - (4) Structural composite preformed polyurethane foam for marine use and trailer use
    - (5) Etching of semiconductor material or wafers and the cleaning of chemical vapor deposition chambers within the semiconductor manufacturing sector
    - (6) Onboard aerospace fire suppression



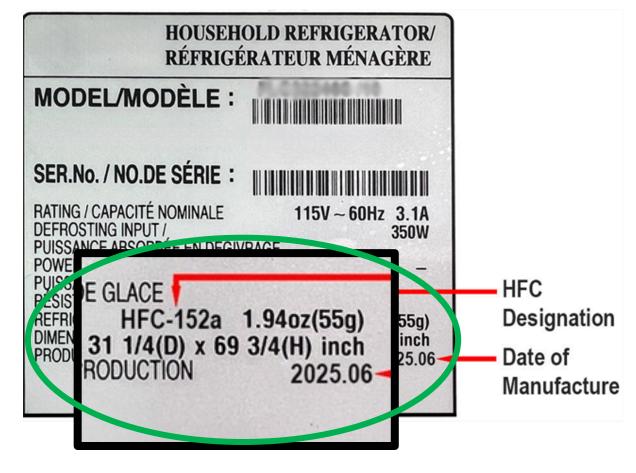
# Labeling, Reporting, and Recordkeeping



# **Labeling – General Requirements**

- All regulated products, components, and systems must be labeled
- The label must include:
  - The name or ASHRAE designation of the HFC or HFC blend being used
    - "HFC-134a" or "1,1,1,2-Tetrafluoroethane" or "R-410A"
    - A trade name that does not specifically identify the HFC(s) is not acceptable.
  - Date of manufacture or first charge (minimum 4-digit year)
    - Day and Month information is optional
    - Motor vehicle air conditioning (MVAC) subsectors may use model year







## **Labeling – General Requirements**

#### Labels must be:

- (1) in English
- (2) durable and printed or otherwise labeled on, or affixed to, the external surface of the product
- (3) readily visible and legible
- (4) able to withstand open weather exposure without a substantial reduction in visibility or legibility; and
- (5) displayed on a background of contrasting color

Note: If a product or specified component is contained within a box or other overpack that reaches the consumer, the exterior packaging must also be labeled

- For products online:
  - Labels or the required information must be clearly included in information available prior to purchase, either in the text description or photo of the equipment



## **Labeling – General Requirements**

#### Additional labeling options

- Packaging Materials:
  - Required information can be included in packaging materials (e.g., tag, pamphlet, or box containing the product)
  - Must be present with the product throughout distribution chain to fulfill the labeling requirement
- QR Code:
  - On-product QR code can be used instead of a traditional label
  - QR code must direct to the required information and meet on-product label requirements
  - QR code must include adjacent text to indicate the purpose of the QR code, such as "contains HFC information" or "scan for HFC info"
  - Nonfunctional or unreadable QR code does not fulfill the labeling requirement



# **Reporting Overview**

- Manufacturers and importers of products and specified components that use HFCs must report annually:
  - Subsector, HFC or HFC blend used, quantity manufactured, imported, and exported
    - Some additional requirements for specific subsectors
  - General company information (name, address, contact information...)
  - First reports are due March 31, 2026, for calendar year 2025 data
  - Reports must be signed and attested
  - Electronic reporting

#### Process

- EPA is currently designing the electronic reporting platform
- Reporting forms under Office of Management and Budget (OMB) review as part of the program's Information Collection Request
- EPA provide additional outreach and post forms prior to reporting deadline



# Recordkeeping

- Manufacturers and importers must:
  - Retain records that form the basis of their reports and who the product was sold, distributed, or in any way conveyed to
  - Retain records for a minimum of three years and be made available to EPA upon request
- Import specific recordkeeping:
  - Records substantiating each import:
    - (1) a copy of the bill of lading for the import
    - (2) the invoice for the import
    - (3) the CBP entry documentation if applicable
    - (4) ports of arrival and entry through which the products passed, and
    - (5) country of origin and if different the country of shipment to the United States



# **Import Considerations**

- Note: Providing details on the product and HFC or alternative in the cargo description can help to reduce potential unnecessary delays with reviewing your shipment and clearing customs
  - Example: A cargo description that says you are shipping a window air conditioner using R-290 is better than just stating "refrigerant" or "AC"



# **Aerosols Sector**



#### **Aerosols Restrictions**

Subsector	GWP Limit	Manufacture and Import Compliance Date	Sale, Distribution, Export Compliance Date	
Consumer aerosol products	150	January 1, 2025	January 1, 2028	
Technical aerosol products	150	January 1, 2028	January 1, 2031	



<sup>\*</sup>This table is for informational purposes only and should not be relied on for compliance purposes. Please refer to 40 CFR Part 84, Subpart B for full details.

#### **Technology Transitions Restrictions – Aerosols**

#### <u>Technical aerosols</u>

- Cleaning products for removal of grease, flux and other soils from electrical equipment or electronics
- Refrigerant flushes
- Products for sensitivity testing of smoke detectors
- Lubricants and freeze sprays for electrical equipment or electronics
- Sprays for aircraft maintenance
- Sprays containing corrosion preventive compounds used in the maintenance of aircraft, electrical equipment or electronics, or military equipment
- Pesticides for use near electrical wires or in aircraft, in total release insecticide foggers, or in certified organic use pesticides for which EPA has specifically disallowed all other lower-GWP propellants

- Mold release agents and mold cleaners
- Lubricants and cleaners for spinnerets for synthetic fabrics
- Duster sprays specifically for removal of dust from photographic negatives, semiconductor chips, specimens under electron microscopes, and energized electrical equipment
- Adhesives and sealants in large canisters
- Document preservation sprays
- Wound care sprays
- Topical coolant sprays for pain relief
- Products for removing bandage adhesives from skin



# Labeling – Aerosol Sector Labeling Requirements

- Aerosol product labels must identify all the HFCs used in the product
- Label must include date of manufacture (minimum 4-digit year)
  - Day and Month information is optional
- If multiple HFCs are used, or an HFC with a GWP greater than the limit is used (HFC-134a), label must include either:
  - (1) the weights of the HFC(s) relative to the other propellants, solvents, or to the other HFCs
  - (2) the specific text "GWP < 150"



Butane, Cyclopentasi oxane, HFC 152a, Isobutane,

Propane, BHT, Propylene Carbonate.

PPG-14 Butyl Ether, Fragrance (Parturn), Disteardimanium Hectorite,



Designation

# **Labeling – Aerosol Sector Labeling**

#### Pesticide Labeling

- Question: How do I label my pesticide product so that it complies with the 2023
   Technology Transitions Rule requirements and the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements?
  - EPA Response: Pesticide Registration Notice 98-10 discusses the revision, addition or deletion of non-Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) related label elements through non-notification. EPA considers the information described above [referring to Technology Transition labeling requirements] to be non-FIFRA related. As such, the Agency does not require notification or approval of such changes to the label before product is distributed or sold. Please note that the additional information added to a pesticide label through non-notification must not be false or misleading or detract from the information required by FIFRA.



# Aerosols Sector Reporting

#### Draft aerosols sector reporting form:

_	Select from dropdown	Select from dropdown	Select from dropdown	Enter data	Select from dropdown	
	Sector	Subsector	Additional Subsector Information	Additional Product Information [optional]	Identity of the HFC or HFC Blend Used	
1	Aerosols	Technical aerosol products	Cleaning products for removal of grease, flux and other soils from electrical equipment or electronics		HFC-134a	
2	Aerosols	Consumer aerosol products	Consumer Aerosol		HFC-152a	

Enter data	Select from dropdown	Calculated - No Entry Required	Enter data	Enter data	Enter data	
Mass of the Regulated	Mass of the Regulated Substance Units	Mass of the Regulated Substance (Metric Tons)	Number of Units			
Substance			Domestically Manufactured	Imported	Exported	
500.00	pounds (lb)	0.23	30	50	20	
300.00	kilograms (kg)	0.30	20	10	30	



# **Foams Sector**



# **Technology Transitions Restrictions – Foams**

Subsector	GWP Limit	Manufacture and Import Compliance Date	Sale, Distribution, Export Compliance Date	
Polyurethane (rigid, flexible, integral skin, laminated boardstock)				
Polystyrene extruded boardstock and billet and extruded sheet	150	January 1, 2025	January 1, 2028	
Phenolic insulation board and bunstock				
Polyisocyanurate laminated boardstock				
Polyolefin				

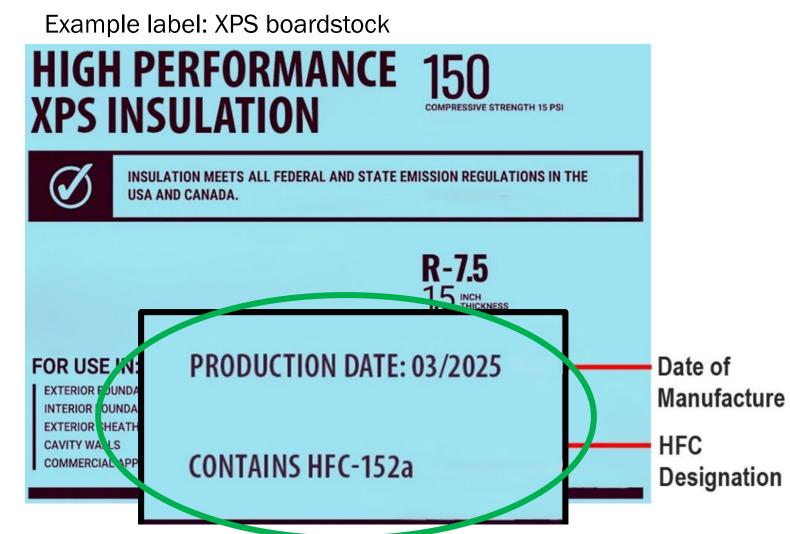
Restrictions apply to blown foam products (e.g., boardstock), products incorporating closed-cell blown foam (e.g., appliances containing insulating foam), and pre-blended polyol products (e.g., polyurethane foam blowing systems).



<sup>\*</sup>This table is for informational purposes only and should not be relied on for compliance purposes. Please refer to 40 CFR Part 84, Subpart B for full details.

# Labeling – Foam Sector Labeling Requirements

- Foam product labels must identify all the HFCs used in the product
- If multiple HFCs are used, or an HFC with a GWP greater than the limit is used, label must include either:
  - (1) the weights of the HFC(s) relative to the other blowing agents or to the other HFCs
  - (2) the specific text "GWP < 150"





## Labeling – Foam Sector Labeling Requirements

- Foam product labels must identify all the HFCs used in the product
- If multiple HFCs are used, or an HFC with a GWP greater than the limit is used, label must include either:
  - (1) the weights of the HFC(s) relative to the other blowing agents or to the other HFCs
  - (2) the specific text "GWP < 150"

#### Example label:

Two-component polyurethane foam system





# **Foams Sector Reporting**

#### Draft foams sector reporting form:

Select from dropdown	Select from dropdown  Select from dropdown		Select from dropdown	Enter mass or density dependi	
Sector			Additional Product Identity of the HFC or HFC Information [optional] Blend Used		Mass of Regulated Substance Units
1 Foam	Integral skin polyurethane		HFC-152a	▼ 5.00	ounces (oz)
2 Foam	Polystyrene extruded sheet		Custom Blend #1	1.00	pounds (lb)
3 Foam	Extruded polystyrene (XPS) boardstock and billet		Custom Blend #2	0.50	kilograms (kg)
4 Foam					
5 Foam					

'n	ng on the product data available		Enter data if shaded blue	Enter data if shaded blue	Enter data if shaded blue	Enter data if shaded blue	Enter units if shaded blue
1	Density of the	Density of the	Number of Units			Volume of Foam	
	Regulated Substance	Regulated Substance Units	Domestically Manufactured	Imported	Exported	Domestically Manufactured	Domestically Manufactured Units
1			100	15	25		
			233	100	98		
			160	220	0		
1							
1							



# Refrigeration, Air Conditioning, and Heat Pump Sector



### 2023 Final Technology Transitions Rule – Restrictions

### Products (RACHP, Foams, Aerosols)

- Restricts the <u>domestic manufacture and import</u> of new <u>products</u> that use HFCs above a specified GWP threshold
  - Import occurs at the time of arrival in the United States (time a ship berths for vessel arrivals, border crossings for land arrivals, and first point of terminus in U.S. jurisdiction for arrivals via air)
- Prohibits the sale, distribution, and export of non-compliant *products* after three years

### Systems (RACHP only)

- Prohibits installation of new RACHP systems that use HFCs above a specified threshold
- No restrictions on <u>manufacture</u>, <u>import</u>, <u>sale</u>, <u>distribution</u>, <u>or export</u> of <u>components</u> used to repair existing RACHP systems



### RACHP Product Manufacture vs System Installation

- A *product* is functional upon completion of manufacturing in a factory
  - Functional means that the equipment's refrigeration circuit is complete, it is charged with refrigerant, and it is ready for use for its intended purpose.
  - EPA considers an RACHP product to be functional upon leaving the factory even if it still must be connected to water lines or electrical circuits in the field.
  - Examples of products include window air conditioning units, refrigerators, commercial freezers, and self-contained ice machines.
- A system is functional upon installation in the field when it is assembled from multiple components or charged with refrigerant
  - Components include equipment such as compressors, condensers, evaporators, metering devices, connecting tubing, and display cabinets.
  - Examples include supermarket refrigeration systems with a centralized compressor room, retail food cases with remote condensing units, and mini-split air conditioners.



### **Existing RACHP Systems**

# This rule does <u>not</u> restrict the continued use of existing equipment

- Existing systems can be serviced and repaired throughout their useful life
- Components needed to repair existing RACHP systems may continue to be manufactured, imported, sold, distributed, or exported

# Additional examples of equipment the final rule does not cover:

- Products in the possession of the end user
- Personal items crossing the border
- Refrigerated shipping or transportation containers currently in use



Note: EPA has granted two petitions asking the Agency to reconsider whether condensing units for residential and light commercial AC and heat pumps should be restricted. This will be addressed in an upcoming rule.

### **New Equipment (RACHP)**

- Restrictions apply to new equipment
- Modifying an existing system can result in it being considered "new"
  - 1. Increasing the total cooling capacity in BTU
  - 2. Complete replacement of all components within a system at once or over time
  - 3. Replacing 75% or more of the evaporators (by number) and 100 percent of the compressor racks, condensers, and connected evaporator loads of an existing system would trigger the requirements of new systems.



## Refrigeration, AC, and Heat Pumps Restrictions

Subsector	Global Warming Potential Limit or Prohibited Substances	Manufacture and Import Compliance Date	Sale, Distribution, and Export Compliance Date
Stationary residential and light commercial air conditioning and heat pumps products (e.g., window units, PTACs)	700	January 1, 2025	January 1, 2028
Residential dehumidifiers	700	January 1, 2025	January 1, 2028
Household refrigerators and freezers	150	January 1, 2025	January 1, 2028
Vending machines	150	January 1, 2025	January 1, 2028
Motor vehicle air conditioning – light-duty passenger vehicles	150	Model Year 2025, (restrictions start October 24, 2024)	October 24, 2027
Retail food – refrigeration stand-alone units	150	January 1, 2025	January 1, 2028
Chillers (as a stand-alone product) – comfort cooling	700	January 1, 2025	January 1, 2028



<sup>\*</sup>This table is for informational purposes only and should not be relied on for compliance purposes. Please refer to 40 CFR Part 84, Subpart B for full details.

### Refrigeration, AC, and Heat Pumps Restrictions

Subsector	Global Warming Potential Limit or Prohibited Substances	Manufacture and Import Compliance Date	Sale, Distribution, and Export Compliance Date
Refrigerated transport – intermodal containers with refrigerant temperature entering the evaporator equal to or above –50 °C (–58 °F)	700	January 1, 2025	January 1, 2028
Refrigerated transport – road self-contained products	See rule for list of prohibited substances	January 1, 2025	January 1, 2028
Refrigerated transport – marine self-contained products	See rule for list of prohibited substances	January 1, 2025	January 1, 2028
Chillers (as a stand-alone product) – ice rinks	700	January 1, 2025	January 1, 2028



<sup>\*</sup>This table is for informational purposes only and should not be relied on for compliance purposes. Please refer to 40 CFR Part 84, Subpart B for full details.

### Refrigeration, AC, and Heat Pumps Restrictions

Subsector	Global Warming Potential Limit or Prohibited Substances	Installation Compliance Date
Residential and light commercial air conditioning and heat pump systems (e.g., unitary split, mini-splits)	700	January 1, 2026 <sup>1</sup> (see footnote)
Chillers – comfort cooling	700	January 1, 2025
Chillers – ice rinks	700	January 1, 2025
Refrigerated transport – intermodal containers with refrigerant temperature entering the evaporator equal to or above –50 °C (–58 °F)	700	January 1, 2025
Refrigerated transport – road systems	See rule for list of prohibited substances	January 1, 2025
Refrigerated transport – marine systems	See rule for list of prohibited substances	January 1, 2025

PHASEDOWN American Innovation & Manufacturing (Allo) Act Aux. Savanomental Protection & Agree Program

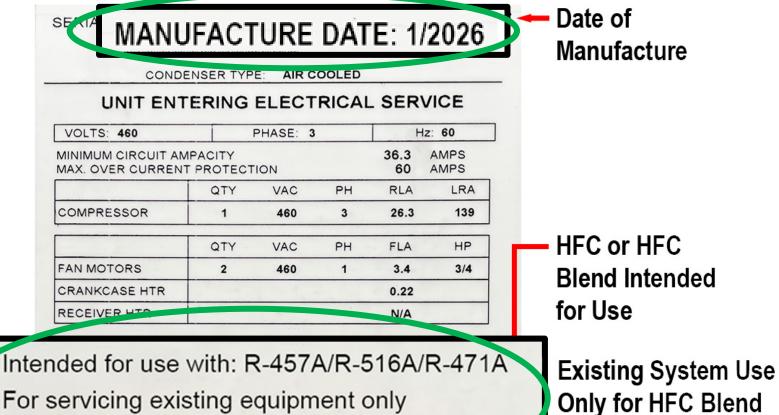
<sup>&</sup>lt;sup>1</sup> New systems with a GWP above 700 can be installed until January 1, 2026, so long as all components are manufactured or imported prior to January 1, 2025 (refer to the Interim Final Rule for additional details).

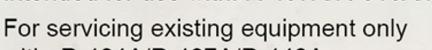
\*This table is for informational purposes only and should not be relied on for compliance purposes. Please refer to 40 CFR Part 84, Subpart B for full details.

### Labeling - RACHP Sector Labeling Requirements

- "Specified components" must be labeled
  - Condensing units, condensers, compressors, evaporator units, and evaporators must be labeled - even if unfilled - to indicate the HFC(s) or HFC blend(s) intended for use in the equipment.
  - If intended for use with an HFC or HFC blend that exceeds the GWP limit. the label must state "For servicing existing equipment only"

Example label: specified component



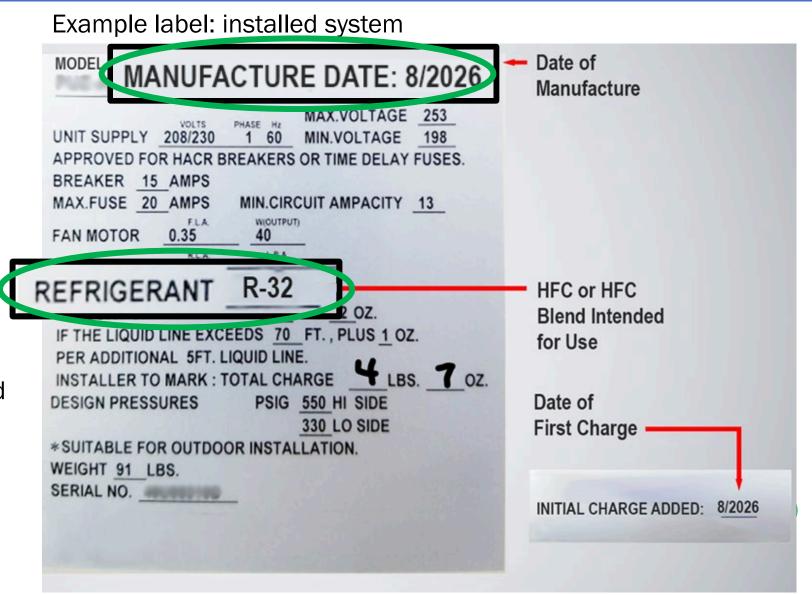


with: R-404A/R-407A/R-448A

that Exceeds GWP Limit

### Labeling – RACHP Sector Labeling Requirements

- Field-charged equipment must be labeled at the time of first charge to indicate
  - 1) the HFC or HFC blend being used and
  - 2) the date of first charge (at a minimum, the four-digit year)
  - New labels must be affixed near but not covering the original specified component label





### Labeling – RACHP Sector Labeling Requirements

- Charge size required for specific subsectors
  - Industrial process refrigeration (without chillers)
  - Retail food refrigeration—supermarket systems
  - Retail food refrigeration—remote condensing units
  - Cold storage warehouses
  - Self-contained refrigerated food processing and dispensing products
- Harvest rate and machine type (batch or continuous) required for specific subsectors
  - Self-contained automatic commercial ice machines
- Other subsector-specific requirements
  - Exiting fluid temperature for industrial process refrigeration chillers
  - Designed refrigerant temperature range when it enters the evaporator for industrial process refrigeration systems without chillers



# RACHP Sector Reporting

Draft RACHP sector reporting form (1/3):

	Select from dropdown		Select from dropdown	Select from dropdown	Enter Data	Enter Data
	Sector	Product or Specified Component	Subsector	Additional Subsector Information	Equipment Type (e.g., compressor) [optional]	Additional Equipment Information (e.g., model number) [optional]
1	RACHP	Product	Motor vehicle air conditioning	Medium-duty passenger vehicles, heavy-duty pick-up trucks, complete heavy-duty vans		
4	RACHP	Specified Component	Residential and light commercial air conditioning and heat pumps	Residential and light commercial air conditioning and heat pump products (e.g., window units, portable room air conditioning)	Condensing unit	
5	RACHP	Product	Chillers (as a stand-alone product)			



# RACHP Sector Reporting

Draft RACHP sector reporting form (2/3):

Select from dropdown		Select from dropdown	Enter data	Select from dropdown	
	Does the product or specified component include closed-cell foam containing a regulated substance?	Identity of the HFC or HFC Blend Used in Product or Specified Component	Charge Size (including holding charge or no charge, if applicable)	Charge Size Units	
	No	HFC-134a	1.1	pounds (lb)	
	No	R-410A	no charge		
	Yes	HFC-152a	5	kilograms (kg)	



# RACHP Sector Reporting

Draft RACHP sector reporting form (3/3):

Enter data if shaded blue	Select from dropdown	Enter data	Enter data	Enter data
Mass of the Regulated Mass of the Regulated —		Number of Product or Specified Component Units		
Substance	Substance Units	Domestically Manufactured	Imported	Exported
11	pounds (lb)	11,100	5,000	2,200
0		230	400	122
5	kilograms (kg)	1,000	240	200



# Additional Resources



### **Technology Transitions Program Resources**

#### Frequently Asked Questions Webpage

<u>www.epa.gov/climate-hfcs-reduction/frequent-questions-phasedown-hydrofluorocarbons#technology-transitions-program</u>

#### Sample Questions from our FAQs

#### Where can I get information on substitute refrigerants?

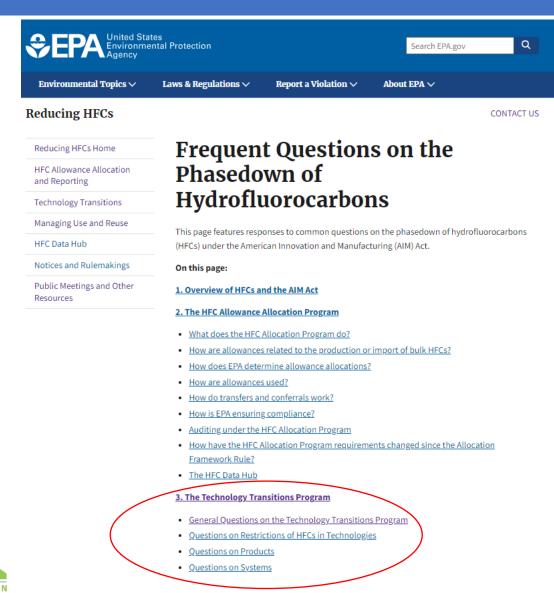
Sources of information on substitute refrigerants include the EPA's <u>Significant New Alternatives Policy Program</u>, as well as the United Nations Environment Programme Ozone Secretariat's <u>Technology and Economic Assessment Panel (TEAP) reports</u>.

#### Do all aerosols, foams, and RACHP equipment have to be labeled?

No. Only products and equipment that contain an HFC must be labeled in accordance with this rule. Many products in these sectors do not use HFCs and do not need to be labeled. Companies may voluntarily choose to indicate on a label that it does not use HFCs.



### **Technology Transitions FAQs**



- Frequent questions and answers are regularly added to our FAQ webpage.
- If you have a question, check here!



### **Technology Transitions Program Resources**

#### **Additional Resources**

Program website	www.epa.gov/climate-hfcs-reduction/technology-transitions
FAQ website	www.epa.gov/climate-hfcs-reduction/frequent-questions- phasedown-hydrofluorocarbons#technology-transitions-program
Final rule fact sheet	www.epa.gov/system/files/documents/2023-10/technology- transitions-final-rule-fact-sheet-2023.pdf
GWP restrictions and compliance dates by sector and subsector	www.epa.gov/climate-hfcs-reduction/technology-transitions-hfc- restrictions-sector
Reducing HFCs website	www.epa.gov/climate-hfcs-reduction
Ozone layer protection website	www.epa.gov/ozone-layer-protection





HFCTransitions@epa.gov

# Recap



### Recap

#### Restrictions

Compliance dates vary based on sector and subsector

- Earliest restrictions start
   January 1, 2025, or Model
   Year 2025 for light duty motor vehicles
- Latest restrictions start
   January 1, 2028

### Labeling

New products and components using HFCs must be labeled based on compliance dates for the relevant subsector

### Reporting

Companies that manufacture or import products and components covered by this rule must report annually to EPA

 First reports due March 31, 2026, based on 2025 data for all sectors



# Thank you!

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# Q&A

