



For the
U.S. market

Protecting the Climate



Reducing HFCs for
US American Innovation and
Manufacturing (AIM) Act*¹

*¹ AIM Act 40 CFR Part 84



From January 1, 2026

- Refrigerated air dryers that use refrigerants with a GWP value of 300 or more
 - Temperature control equipment that uses refrigerants with a GWP value of 700 or more
- ➔ Import into the U.S. will be prohibited.

* The GWP values are values based on AIM Act 40 CFR Part 84.

Before January 1, 2026

Products imported before January 1, 2026 can be sold for 3 years from the regulation implementation date. Maintenance is also possible.

U.S. Refrigerant Regulation Compatible Products

Temperature Control Equipment

U.S. Refrigerant Regulation Compatible Products

Low GWP Refrigerant Compatible Thermo-chiller

HR□F Series*¹

R454C (GWP 146)

- HRSF Series
- HRLF Series
- HRRF Series
- HRZF Series (Currently available)

GWP value
Max. 96% reduction

Non F-Gas (CO₂ Refrigerant) Thermo-chiller

HR□C Series

CO₂*² (GWP 1)

GWP value
Max. 99% reduction

Products subject to regulation Thermo-chiller

HR□ Series

R404A (GWP 3922)
R407C (GWP 1774)
R448A (GWP 1386)

R134a (GWP 1430)
R410A (GWP 2088)



HRS Series



HRL Series



HRS Series



HRR Series



HRZ/HRZ-F Series

U.S. Refrigerant Regulation Compatible Products

Low GWP Refrigerant Compatible Air Dryer

IDFB Series (Option: F)*¹

R1234yf (GWP 1)

R454C (GWP 146)

GWP value
Max. 99% reduction

Products subject to regulation Air Dryer

IDFB Series

R134a (GWP 1430)
R407C (GWP 1774)
R410A (GWP 2088)



*1 Scheduled to be released in 2024 or later. Contact your local SMC sales office for further details.

*2 The refrigerant number that indicates the type of refrigerant specified by ISO 817 (International Organization for Standardization) is "R744."

*3 The GWP values are values based on AIM Act 40 CFR Part 84.

Global Warming Potential (GWP) Comparison

Slightly flammable refrigerant

146

R454C

Impact on global warming
Max. 96% reduction

Non-flammable refrigerant

3922

R404A

Refrigerant Regulations Overview

Item	U.S. Refrigerant Regulation (AIM Act)	
	Temperature Control Equipment	Refrigerated Air Dryers
Subject of regulation	Products using refrigerants with a GWP value exceeding the regulation limit	
GWP value limit	GWP ≥ 700	GWP ≥ 300
Regulation implementation date	From January 1, 2026	
Regulation details	Prohibition of manufacturing and customs clearance of products subject to regulation	
Sale of inventory of products subject to regulation	Can be sold for 3 years from the regulation implementation date (Within the U.S. and exported)	
Maintenance	Regulation exempt	
Refrigerant GWP	Non-flammable refrigerants; R134a: 1430, R404A: 3922, R407C: 1774, R410A: 2088 Slightly flammable refrigerants; R454C: 146, R1234yf: 1	

* The GWP values are values based on AIM Act 40 CFR Part 84.



Q1 Is the U.S. the only country subject to the U.S. refrigerant regulation?

A1 Yes, only the U.S. is subject to the regulation. For regions outside of the U.S., be sure to comply with each region's refrigerant regulations. (Japan, Asia, and Oceania are not subject to refrigerant regulations.)

Q2 Which F-gases (refrigerants) will be affected by the ban?

A2 The F-gases used in SMC products subject to the regulations are as shown in the table below.

Refrigerant	GWP value
R134a	1430
R404A	3922
R407C	1774
R410A	2088

Q3 What exactly does "Import into the U.S. will be prohibited" mean?

A3 It means there will be no customs clearance into the U.S.

Q4 Will it be possible to have maintenance done on temperature control equipment and refrigerated air dryers imported into the U.S. on December 31, 2025 or earlier?

A4 Yes, maintenance will remain possible.

Q5 Can products subject to the U.S. refrigerant regulation be transported by aircraft?

A5 As R454C and R1234yf are slightly flammable refrigerants, SMC products that use these refrigerants (with a refrigerant charge of 100 g or more) cannot be transported by aircraft.
As CO₂ is a non-flammable refrigerant, SMC products that use this refrigerant (with a refrigerant charge of less than 12 kg) can be transported by aircraft.

Q6 How can I learn more about the refrigerants used in SMC products?

A6 The refrigerant used in each product is specified in the catalog, external appearance drawings, and on the label attached to the product.



⚠ Safety Instructions Be sure to read the “Handling Precautions for SMC Products” (M-E03-3) and “Operation Manual” before use.

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