

AIM Act Emissions Reduction and Reclamation Rule¹ Regulated Refrigerants Used in the Supermarket Industry

- The EPA’s Emissions Reduction and Reclamation Rule applies to all HFC refrigerants that are listed in [Appendix A to Part 84](#) and to substitutes for HFC refrigerants with GWPs >53.
- Regulated refrigerants contained in refrigerant blends are also regulated.
- The GWP values used in the AIM Act are not always the same as the 100-year GWP values in the AR4.

Refrigerant	Composition and Percentage	Neat or Blend	AIM Act 100-Year GWP	Refrigerant Category				Regulated (Y/N)	Why or Why NOT Regulated under the AIM Act
				HCFC	HFC	HFO	Natural		
R-22	R-22 (100)	Neat	1810.00	X				N	Excluded as a pure/neat ODS
R-32	R-32 (100)	Neat	675.00		X			Y	HFC Regulated in the AIM Act
R-134a	R-134a (100)	Neat	1430.00		X			Y	HFC Regulated in the AIM Act
R-404A	R-125/143a/134a (44.0/52.0/4.0)	Blend	3921.60		X			Y	Contains a regulated HFC in the blend
R-407A	R-32/125/134a (20.0/40.0/40.0)	Blend	2107.00		X			Y	Contains a regulated HFC in the blend
R-410A	R-32/125 (50.0/50.0)	Blend	2087.50		X			Y	Contains a regulated HFC in the blend
R-448A	R-32/125/1234yf/134a/ 1234ze(E) (26.0/26.0/20.0/21.0/7.0)	Blend	1386.07		X	X		Y	Contains a regulated HFC in the blend
R-449A	R-32 /125 /1234yf /134a (24.3/24.7/25.3/25.7)	Blend	1396.29		X	X		Y	Contains a regulated HFC in the blend
R-452A	R-32/125/1234yf (11.0/59.0/30.0)	Blend	2139.55		X	X		Y	Contains a regulated HFC in the blend
R-454A	R-32/1234yf (35.0/65.0)	Blend	236.90		X	X		Y	Contains a regulated HFC in the blend
R-454B	R-32/1234yf (68.9/31.1)	Blend	465.39		X	X		Y	Contains a regulated HFC in the blend
R-454C	R-32/1234yf (21.5/78.5)	Blend	145.91		X	X		Y	Contains a regulated HFC in the blend
R-455A	R-744/32/1234yf (3.0/21.5/75.5)	Blend	145.91		X	X	X	Y	Contains a regulated HFC in the blend
R-457A	R-32/1234yf/152a (18.0/70.0/12.0)	Blend	137.08		X	X		Y	Contains a regulated HFC in the blend
R-471A	R-1234ze(E)/227ea/ 1336mzz(E) (78.7/4.3/17.0)	Blend	143.67		X	X		Y	Contains a regulated HFC in the blend
R-507A	R-125/143a (50.0/50.0)	Blend	3985.00		X			Y	Contains a regulated HFC in the blend
R-513A	R-1234yf/134a (56.0/44.0)	Blend	629.76		X	X		Y	Contains a regulated HFC in the blend
R-744	R-744 (100)	Neat	1.00				X	N	Non-regulated substitute
R-1234yf	R-1234yf (100)	Neat	1.00			X		N	Non-regulated substitute
R-1234ze(E)	R-1234ze(E) (100)	Neat	1.00			X		N	Non-regulated substitute

¹ Refrigerants that are regulated under 40 CFR Part 84, Subpart C—Management of Regulated Substances. These regulations implement subsection (h) of 42 U.S.C. 7675 (The AIM Act). Subsection (h) of the AIM Act is titled “Management of Regulated Substances.”