



October 31, 2019

[www.epa.gov/ozone/snap](http://www.epa.gov/ozone/snap)

## FACT SHEET

# Protection of Stratospheric Ozone: New Listings for the Significant New Alternatives Policy Program in the Refrigeration & Air Conditioning Sector

### Action Listing New Acceptable Substitutes

Section 612 of the Clean Air Act requires EPA to evaluate alternatives to ozone-depleting substances. EPA’s Significant New Alternatives Policy (SNAP) program reviews substitutes in a comparative risk framework, using the same risk criteria for all SNAP decisions. Section 612 requires EPA to list as acceptable those substitutes that do not present a significantly greater risk to human health and the environment as compared with other substitutes that are currently or potentially available.

This determination of acceptability (Notice 35) expands EPA’s SNAP list of acceptable substitutes, providing industry with more options in the refrigeration and air conditioning sector. It also clarifies the types of equipment included in the refrigerated transport—refrigerated trucks and trailers end-use category.

### Notice 35

#### *What is included in the Notice?*

- Six additional acceptable substitutes that reduce overall risk to human health and environment
- Clarifies the types of equipment included in the refrigerated transport—refrigerated trucks and trailers end-use category

#### *Which industrial sectors are included?*

- Refrigeration & Air Conditioning

#### *What health and environmental impacts of substitutes does EPA evaluate?*

- Atmospheric effects, toxicity, flammability, occupational and consumer health/safety, local air quality, and ecosystem effects

### SUMMARY OF ACCEPTABLE SUBSTITUTES

End-Use	Substitutes
<b>Refrigeration &amp; Air Conditioning</b>	
Centrifugal Chillers (New & Retrofit)	R-1224yd(Z)
Ice Skating Rinks (New)	R-448A, R-449A, R-449B
Industrial Process Refrigeration (New & Retrofit)	R-1224yd(Z)
Positive Displacement Chillers (New & Retrofit)	R-1224yd(Z)
Refrigerated Transport – Refrigerated Trucks and Trailers (New & Retrofit)	R-407H, R-453A
Retail Food Refrigeration – Refrigerated Food Processing and Dispensing Equipment (New & Retrofit)	R-407H

End-Use	Substitutes
Retail Food Refrigeration – Supermarket Systems (New & Retrofit)	R-407H