

## Significant New Alternatives Policy (SNAP)

- The Environmental Protection Agency (EPA) made certain HFCs unacceptable for use in SNAP Rules 20 (2016) and SNAP 21 (2017).
- In December 2019, CA chose to adopt their own timeline for the previously proposed SNAP rules. The following table shows an abbreviated view, highlighting some of the key restrictions. For further details, visit [EPA.gov/SNAP](http://EPA.gov/SNAP).

Application	Unacceptable Refrigerants*		
	In New Equipment	For Retrofit	Implementation Date
Condensing Units	R-404A/507	R-404A/507	1/1/2019
Stand-alone Units		R-404A/507	1/1/2019
Stand-alone Units (Low Temp.)	R-404A/507, 134a, 407A/C/F, 410A		1/1/2020
Stand-alone Units (Med. Temp. <2200 Btu/hr)	R-404A/507, 134a, 407A/C/F, 410A		1/1/2019
Stand-alone Units (Med. Temp. ≥2200 Btu/hr)	R-404A/507, 134a, 407A/C/F, 410A		1/1/2020
Supermarket Systems/Racks	R-404A/507	R-404A/507	1/1/2019
Vending Machines	R-404A/507, 134a, 407A/C/F, 410A	R-404A/507	1/1/2019
Refrigerated Food Processing/Dispensing	R-404A/507, 407A/C/F		1/1/2021

\*This is a summary of the most commonly used refrigerants. Please consult [EPA.gov/SNAP](http://EPA.gov/SNAP) for a full list of unacceptable products.

## California Air Resources Board (CARB) Activity

In September 2018, the California Cooling Act (SB 1013) adopted SNAP Rules 20 and 21. Additional regulations related to the Short-Lived Climate Pollutant (SLCP) plan are proposed, as shown below. CARB is currently seeking stakeholder input.



Companies owning or operating 20 or more retail food facilities and national supermarket chains:

### Proposed Refrigerant GWP Limit<sup>1</sup>:

Average GWP <1400 or 55% reduction in GHG<sup>2</sup> below 2019 baseline

<sup>1</sup>GWP - IPCC 4th Assessment Report, AR4 <sup>2</sup>Greenhouse Gas Potential

## Global Warming Potential (GWP) by Refrigerant Type

The table below highlights the GWP counts for each product mentioned in the CA SNAP timeline, to assist you with planning for the 2030 phase down.

Refrigerant	GWP Count
Opteon™ XP10 (R-513A)	631
Opteon™ XP40 (R-449A)	1397
R-134a	1430
R-22	1760
R-407C	1774
R-407F	1825
R-407A	2107
R-404A	3900
R-507A	3985

## The Optimal Solution for Environmental and Economic Sustainability and Business Continuity

Opteon™ XP40 (R-449A) and Opteon™ XP10 (R-513A) have been successfully used in a wide range of commercial food refrigeration applications to meet the regulations noted above.

-  Reliable
-  Cost Effective
-  Sustainable
-  Compatible
-  Field Tested and Proven



If you would like to discuss the optimal solution for your commercial food refrigeration needs, please contact:

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