



Announces a program to meet the EPA's Significant New Alternatives Policy

AIR INITIATIVE

Alternative Industrial Refrigerants

Nor-Lake® is dedicated to providing the most environmentally friendly equipment while still providing optimum energy efficiency. Answering the challenge of the EPA's Significant New Alternatives Policy (SNAP), which calls for delisting of certain HFC refrigerants including R-404A and R-134a, we have developed the AIR Initiative. Under this program, we will utilize a combination of HFO blended refrigerants and foaming agents as well as natural refrigerants such as R-290 (propane). The AIR Initiative will allow us to provide our customers with the most complete product line in the industry including remote and self-contained cabinets, walk-ins, single compressor condensing units, and multi-compressor rack refrigeration systems.

BLENDING REFRIGERANTS

A blended refrigerant is a combination of two or more single component refrigerants. Blends provide many advantages including:

- Up to 84% reduction in global warming potential when compared to traditional HFCs
- Increased energy efficiency and similar performance characteristics compared to HFCs
- Approved and supported by major component manufacturers
- No charge limitations
- Continue to use current standard thermostatic expansion valves, filter driers and solenoid valves
- They are extensively field tested as drop-in replacements with no equipment, lubricant or seal changes
- No special aftermarket service requirements

NATURAL REFRIGERANTS

Natural refrigerants are chemicals which occur in nature's bio-chemical process. There is a large range of natural refrigerants including ammonia, CO₂, and the most common of which are hydrocarbons, propane and isobutene.

- Zero ozone depletion potential (ODP)
- Very low global warming potential (GWP)
- Highly energy efficient in small systems
- Excellent thermodynamic properties and no refrigeration glide
- Large installed base for commercial application across Europe

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TIMELINE OF IMPLEMENTATION

All Nor-Lake® products will be SNAP certified before the mandated conversion deadline.

PRODUCT TYPE	COMPLIANT REFRIGERANT	ESTIMATED DATE OF CONVERSION
Remote Refrigeration Systems	HFO Blend	2017
Open Air Merchandisers	HFO Blend & Natural Refrigerant	2018
Nova™ Models	HFO Blend	2018
Endless Merchandisers	HFO Blend	2018
Ice Cream & Gelato Cabinets	HFO Blend & Natural Refrigerant	2018
Display Freezers	HFO Blend & Natural Refrigerant	2018
AdvantEdge™ Models	HFO Blend & Natural Refrigerant	2018
Walk-In Panels	HFO Foaming Agent	2019
Glass Door Merchandisers	HFO Blend & Natural Refrigerant	2019

