



# Opteon™ 448A

## Refrigerant

## Product Information

Opteon™ 448A (R-448A) is a non-ozone depleting, low global warming potential (GWP), hydrofluoro-olefin (HFO)-based refrigerant with an optimal balance of properties to replace R-404A/R-507, R-22, or R-407 series in positive displacement, direct expansion, low- and medium-temperature commercial and industrial applications.

Opteon™ 448A is suitable for new installations, as well as for retrofit of existing systems, offering improved energy efficiency and environmental properties.

### Applications

Low- and medium-temperature commercial and industrial DX refrigeration

- Supermarkets
  - Centralized rack systems
  - Distributed systems
  - Walk-in coolers/freezers, prep rooms, etc.
- Food service (e.g., condensing units)
- Cold storage
- Self-contained systems
- New equipment/retrofit of existing systems

### Opteon™ 448A Properties

ASHRAE Number	R-448A
Composition	R-32/R-125/R-1234yf/R-134a/R-1234ze(E)
Weight %	26/26/20/21/7
Molecular Weight	86.3 g/mole (86.3 lb/lb mole)
Boiling Point at 101.3 kPa (1 atm)	-46.1 °C (-50.9 °F)
Critical Pressure	4594.5 kPa [abs] (666.3 psia)
Critical Temperature	82.6 °C (180.6 °F)
Liquid Density at 21.1 °C (70 °F)	1114.2 kg/m³ (69.5 lb/ft³)
Ozone Depletion Potential (CFC-11 = 1.0)	0
AR5 Global Warming Potential	1273
ASHRAE Safety Classification	A1
Temperature Glide	-4 K (-7 °R)



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For more information on the Opteon™ family of refrigerants, or other refrigerants products, visit [opteon.com](http://opteon.com) or call (800) 235-7882.

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