



Opteon™ XP30 (R-514A)

Refrigerant

Product Information

Opteon™ XP30 (R-514A*) is a non-ozone depleting, low global warming potential (GWP) hydrofluoroolefin (HFO)-based refrigerant developed to replace R-123 in low pressure centrifugal chillers for commercial and industrial applications. Opteon™ XP30 is a nonflammable, azeotropic refrigerant suitable for new systems and retrofits that offers an optimal balance of properties, including high energy efficiency and environmental sustainability.

Applications

- Low pressure centrifugal chillers

Benefits

- Low GWP: 97% reduction compared to R-123**
- Excellent capacity and energy efficiency match to R-123
- Azeotrope with zero glide
- Nonflammable

*Pending

**According to Assessment Report 5 (AR5)

Opteon™ XP30 Properties

ASHRAE Number	R-514A (pending)
Composition	HFO-1336mzzZ/trans-1,2-dichloroethylene (t-DCE)
Weight %	74.7/25.3
Molecular Weight	139.6 g/mole (139.6 lb/lb mole)
Boiling Point at 1 atm (101.3 kPa)	29.1 °C (84.4 °F)
Critical Pressure	3520 kPa [abs] (510.5 psia)
Liquid Density at 21.1 °C (70 °F)	1322.2 kg/m ³ (82.5 lb/ft ³)
Ozone Depletion Potential (CFC-11 = 1.0)	Negligible
AR5 Global Warming Potential (CO ₂ = 1.0)	2
ASHRAE Safety Classification	B1
Temperature Glide	0 °R (0 K)

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

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