



Opteon™ XL55

Refrigerant

Product Information

Opteon™ XL55 (R-452B) is a non-ozone depleting, low global warming potential (GWP), hydrofluoro-olefin (HFO)-based refrigerant to replace R-410A in positive displacement, direct expansion air conditioning, heat pump and chiller applications. Opteon™ XL55 is intended for new equipment design only and is the preferred low GWP replacement for R-410A, as it offers the optimal balance of properties while being easily convertible from R-410A designs. These properties include improved energy performance, ultra-low flammability properties, and excellent performance at high ambient temperatures.

Applications

- Positive displacement, DX air conditioning, heat pumps and chillers
 - Residential, light commercial, commercial
- Direct replacement for all equipment types designed for R-410A
 - Window units, portables, mini-splits, ducted splits, PTACs, commercial packaged, multi-splits, DX chillers, and other

Benefits

- Most optimized low GWP replacement for R-410A
- Superior performance compared to R-410A – up to 5% energy efficiency improvement
- Ultra-low class 2L flammability properties – best-in-class of leading R-410A replacements
- Excellent performance in high ambient conditions
- Very close match to R-410A – easily convertible from R-410A design with minimal changes
- Very low temperature glide

Opteon™ XL55 Properties

ASHRAE Number	R-452B
Composition	HFO/HFC blend
Boiling Point	-51 °C (-60 °F)
Critical Temperature	76 °C (169 °F)
Ozone Depletion Potential	0
AR5 Global Warming Potential	676
ASHRAE Safety Classification	A2L (expected)
Temperature Glide	-1 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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