



Koura R-454B

Sustainable Refrigerant for HVAC

High-performing replacement for R-410A

Koura has over 50 years of experience delivering high-performing, sustainable refrigerant solutions to solve thermal management challenges. We leverage our technical and market expertise to deliver the best outcome for both our customers and their consumers.

R-454B is a high-performing, lower GWP alternative to R-410A that is ideal for direct expansion air conditioning, heat pump and chiller applications. R-454B's excellent balance of properties make it a cost-effective and simple process to apply in new HVAC equipment with minimal changes from R-410A design. Key benefits include:

- GWP reduction of 78% over R-410A
- Simple conversion with minimal changes from R-410A system design

R-454B provides excellent performance in normal and high ambient conditions, a low temperature glide with easy top off after leakage, and is miscible with polyester (POE) lubricants.



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Koura R-454B Refrigerant Physical Properties

ASHRAE Number	R-454B
Composition Weight %	R-32/R-1234yf 68.9/31.1
Molecular Weight	62.6 g/mol
Normal Boiling Point ¹	-50.5 °C (-58.9 °F)
Critical Pressure	51.6 barg / 749 psig
Critical Temperature	78.1 °C (172.6 °F)
Liquid Density at 21.1 °C (70 °F)	1001.0 kg/m ³ (62.5 lb/ft ³)
Ozone Depletion Potential (CFC-11 = 1.0)	0
AR4 GWP (CO ₂ = 1.0)	466
ASHRAE Safety Classification	A2L
Temperature Glide	1.5 K (2.7 °F)
Lower Flammability Limit ²	11.5 vol%

¹Normal bubble point

²ASHRAE Standard 34 - 2022 Addendum a

Features and benefits

- Low GWP alternative for R-410A offers 78% reduction in GWP
- Simple conversion with minimal changes from R-410A design
- Comparable capacity and greater efficiency to R-410A
- Outstanding performance in normal and high ambient conditions
- Low temperature glide enables top off after leaks
- Low toxicity and flammability
- Miscible with most POE lubricants

For more information, contact info@kouraglobal.com Safety Data Sheets available at kouraglobal.com

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