

# Next-Gen Refrigerants

Building a Sustainable Future

With zero ozone-depleting properties and lower global warming properties, next-generation refrigerants will serve as more sustainable replacements for legacy refrigerants such as CFCs and HCFCs.

## Contact us today

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Available from

**METRACLARK**

Refrigeration & Air-Conditioning Wholesale  
Excellence Through Experience

**A-GAS**<sup>®</sup>  
TOGETHER WE CAN

## R448A

- ✓ Used as a replacement for R404A and R22 in low and medium temperature refrigeration applications
- ✓ Low 1387 GWP
- ✓ Non-toxic and non-flammable with ASHRAE safety classification of A1
- ✓ Higher energy efficiency than R404A

## R452A

- ✓ Used as replacement for R404A and R507
- ✓ GWP of 2140
- ✓ Non-flammable with ASHRAE safety classification of A1
- ✓ Performance closely matches that of R404A

## R514A

- ✓ Used as a replacement for R123 for low pressure centrifugal chillers
- ✓ Ultra-low GWP of 2
- ✓ Non-flammable and mildly toxic with ASHRAE safety classification of B1

## R449A

- ✓ Used as replacement for R404A and R507
- ✓ GWP of 1397 (64% reduction over R404A)
- ✓ Non-Flammable and non-toxic with ASHRAE safety classification of A1
- ✓ Performance closely matches that of R404A

## R513A

- ✓ Replaces R134a and also R401A, R401B and R409A as a retrofit solution
- ✓ Low GWP of 631
- ✓ Non-flammable with ASHRAE safety classification of A1
- ✓ High in energy efficiency

## R744

- ✓ Used as a replacement for R134a and R404A in ultra-low, low, and medium temperature refrigeration applications
- ✓ Ultra-low GWP of 1
- ✓ Non-flammable with ASHRAE safety classification of A1
- ✓ Excellent thermodynamic properties and low energy requirements

## R1234yf

- ✓ Used as a replacement for R134a in automotive air conditioning applications
- ✓ Ultra-low GWP of 1
- ✓ Mildly flammable and non-toxic with ASHRAE safety classification of A2L
- ✓ More energy efficient than competing technologies

## R1233zd(E)

- ✓ Used as a replacement for R123 in centrifugal chillers and can also be used in foam-blowing applications
- ✓ Ultra-low GWP of 1
- ✓ Non-flammable with ASHRAE safety classification of A1

## R454A

- ✓ Used as a replacement for R404A in new equipment designs
- ✓ Low GWP of 238
- ✓ Non-toxic and mildly flammable with ASHRAE safety classification of A2L
- ✓ Improved capacity and efficiency compared to R404A

## R1234ze

- ✓ Used as a replacement for R134a in medium-temperature refrigeration and air-conditioning applications
- ✓ Ultra-low GWP of 1
- ✓ Non-flammable under ADR, however, is classified as A2L under ASHRAE classification

## R450A

- ✓ Used as a replacement for R134a
- ✓ Low GWP of 604
- ✓ Non-flammable with Ashrae safety classification of A1
- ✓ Offering similar performance to R134a