

***NATIONAL***<sup>™</sup>

R-22

Alternative Refrigerants for R-22  
Air Conditioning and Refrigeration Systems



**National Refrigerants, Inc.**

# What's the Alternative?

Retrofit your current R22 refrigerant system to work with another refrigerant.



## Air Conditioning

### R422B Applications

Residential Air Conditioning – For New Equipment and Retrofitting  
Commercial Air Conditioning – For New Equipment and Retrofitting

#### PERFORMANCE:

- ✓ Lower discharge temperature than R-22
- ✓ Slightly lower capacity than R-22
- ✓ Similar P/T Properties
- Properly sized R-22 TXVs will most likely be suitable for use with R-422B. If the valve is running at the limit of its capacity with R-22, it may appear undersized after the retrofit and may need to be replaced.
- R-422B is compatible with Mineral, Alkylbenzene, and Polyolester oil.

Available in the following cylinder sizes: 25 lb, 110 lb

### R407C Applications

Residential Air Conditioning – For New Equipment and Retrofitting  
Commercial Air Conditioning – For New Equipment and Retrofitting

#### PERFORMANCE:

- ✓ Lower discharge temperature than R-22
- ✓ Closest capacity match to R-22
- ✓ Similar P/T and mass flow properties
- ✓ No component changes
- ✓ Compatible with Polyolester (POE) oil
- Existing R-22 TXVs will be sized correctly for R-407C. Superheat settings may be affected by the temperature glide.

Available in the following cylinder sizes: 25 lb, 115 lb, 925 lb



\* For any retrofit job, it is recommended to change the Schrader valve cores, o-rings on the caps, filter driers, and any seals found to be leaking.



# Refrigeration

## R407A, R448A, R449A Applications

Commercial Refrigeration – For New Equipment and Retrofitting

### PERFORMANCE:

- ✓ Higher capacity than R-22 at similar operating conditions; resulting in shorter compressor run times
- ✓ Similar P/T and flow properties
- ✓ Lower discharge temperature than R-22
- ✓ No component changes
- ✓ Compatible with Polyolester (POE) Oil
- ✓ Change lubricant to POE per manufacturer's instructions
- Existing R-22 TXVs will need to be sized correctly for R-448A and R-449A. Some adjustment of superheat will be necessary after retrofit.

### R407A Applications

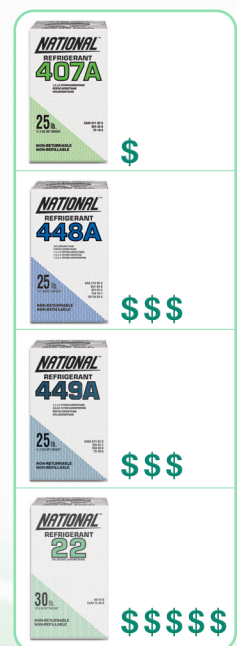
Available in the following cylinder sizes: 25 lb, 100 lb, 925 lb

### R448A Applications

Available in the following cylinder sizes: 25 lb & 100 lb

### R449A Applications

Available in the following cylinder sizes: 25 lb & 110 lb



\* For any retrofit job, it is recommended to change the Schrader valve cores, o-rings on the caps, filter driers, and any seals found to be leaking.

# NATIONAL™

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