



## RETROFITTING R-22 Refrigeration Systems

### Refrigerant Options



**Genetron® Performax™ LT  
R-407F (HFC)**

- Best capacity match to R-22 in medium- and low-temperature applications
- The most efficient R-22 retrofit option in the marketplace
- Lowest GWP (1824) among R-22 replacements for commercial refrigeration
- Requires POE
- No TXV change or adjustments
- Compressor manufacturer approvals
- Lower discharge temperature than R-22



**R-422D (HFC)**

- Less capacity and efficiency but lower discharge temperatures
- No oil change\* or TXV change\*\* in most installations
- Satisfies customers looking for a “drop-in” option



**R-404A (HFC) & R-507 (HFC)**

- Guaranteed capacity match to R-22
- Requires POE lubricant
- TXV change required
- R-507 is the only HFC candidate suitable for retrofitting flooded R-22 systems

\* System designs vary and the addition of POE may be required to assure proper oil return

\*\* The mass flow of R-422D is higher than that of R-22 and an evaluation of the expansion device is recommended

### Refrigeration Resources

[www.genetron.com](http://www.genetron.com)  
[www.genetronperformaxlt.com](http://www.genetronperformaxlt.com)

R-407F Technical Brochure  
R-422D Technical Brochure  
Guide to Alternative Refrigerants  
R-404A & R-507 Technical Brochure  
HCFC Refrigeration Retrofit Guidelines

Live help:  
Call 1-800-426-8241  
to speak to a Honeywell  
refrigeration professional



## RETROFITTING R-22 A/C Systems

### Refrigerant Options



**R-407C (HFC)**

Best capacity and efficiency match to R-22

The most efficient R-22 retrofit option in the marketplace

A change to POE lubricant is recommended. If existing MO is used, the addition of some POE to the system is required for proper oil return

Requires a minimum of 20% POE for close-coupled A/C systems

No TXV change required

Lowest GWP (1774) among R-22 replacements

Lower discharge temperatures than R-22



**R-422D (HFC)**

No oil change\* or TXV change\*\* in most installations

Satisfies customers looking for a “drop-in” option

Slightly less capacity and efficiency but lower discharge temperatures

Can be used with AB, MO, POE lubricants\* when short connecting lines are used

Lower discharge temperatures than R-22

\* System designs vary and the addition of POE may be required to assure proper oil return

\*\* The mass flow of R-422D is higher than that of R-22 and an evaluation of the expansion device is recommended

### Air Conditioning Resources

[www.genetron.com](http://www.genetron.com)

R-407C Technical Brochure  
R-422D Technical Brochure  
Guide to Alternative Refrigerants  
HCFC Air Conditioning Retrofit Guidelines

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