



# RETROFITTING R-22 Refrigeration Systems

### **Refrigerant Options**



Genetron<sup>®</sup> Performax<sup>™</sup> 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

### **Refrigeration Resources**

www.genetron.com 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

 $<sup>^{\</sup>star}$  System designs vary and the addition of POE may be required to assure proper oil return

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



### Honeywell

## 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

### **Air Conditioning Resources**

www.genetron.com

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

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

#### **Honeywell Refrigerants**

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

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