Welcome to the Future of R-22 System Service

The impending phase-out of R-22 is driving the service industry to choose a long-term HFC replacement and NU-22B® is emerging as the safest and most practical option.

Scan this QR Code to watch the NU-22B® Conversion Video on your mobile device!

2289*
*Per IPCC AR5

• Flooded systems must be approved by ICOR’s Technical Support Supervisor.
• NU-22B or any other replacement refrigerant should NOT be used in a Trane 3-D® scroll compressor.
• NU-22B or any other replacement refrigerant should NOT be used with an Electronic Expansion Valve (EEV).

For more information or to find a distributor near you, visit www.icorinternational.com or call 1-800-497-6805.

For Free Online Training at ICOR’s Virtual Training Center, visit www.icorvtc.com.

• Direct Replacement
• HFC - Non-Ozone Depleting
• ASHRAE Designated R-422B
• EPA SNAP Listed

Complete Specifications on Back

Impeccable Record of Field Performance
System requirements

- System must be designed for use with R-22 or 407C.
- System must be designed for a direct expansion metering device, i.e. TEV, cap tube, or fixed orifice.
- System should be operating within its design capacity.
- System should be leak free.
- Compressor must be charged with lubricant as required by the OEM.
- Suction, discharge and liquid piping must be sized, trapped and insulated for systems temperature and BTU design.
- Flooded systems must be approved by ICOR’s Technical Support Supervisor.
- NU-22B or any other replacement refrigerant should NOT be used in a Trane 3-D® scroll compressor.
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System charging

*It is always recommended to fully recover any remaining R-22 prior to charging the system with NU-22B®*

1. Initially charge 95% of R-22
   - Do Not exceed 115% of OEM charge
2. Remove liquid only from cylinder
3. Charge refrigerant in the receiver or high side of the system with the compressor off.
4. Run system and add refrigerant if needed to design subcooling. Adjust TEV if needed. Never charge system by clearing sight glass
5. For Fixed Metering Device Systems. Charge by compressor superheat

Benefits

- Lower retrofit costs no POE oil changes
- No line set changes
- Can be topped off after leak has been repaired
- Enables continued use of existing equipment
- Can use R-22 TEV and power element
- Widespread availability

Application

- R-22 residential air conditioning and heat pumps
- R-22 and 407C commercial air conditioning and heat pumps
- R-22 medium and high temp refrigeration

EPA Hotline # 800.296.1996
www.epa.gov

Evaporator temperature range

0 °F to 50 °F

Oils

MO, AB, POE and PVE

Direct Replacement for Refrigerants


Pre and Post conversion data

System information must be recorded for warranty

Go to www.icorinternational.com for complete warranty information

Conversion considerations

NU-22B is compatible with mineral oil, alkyl benzene and polyol esters. In most cases no change of lubricant is required. Oil return is determined by a number of operating and design conditions. Minor equipment modifications (e.g. seal replacement, TEV adjustment) may be required.

ICOR
making your life easier™

10640 E, 59th Street
Indianapolis, IN 46236
800-497-6805
icorinfo@icorinternational.com

Technical Information

**ASHRAE Designation**: 422B

**Environmental Classification**: HFC

**ASHRAE Standard 34 Safety Classification**: A1

**EPA/SNAP Accepted (S=Stationary M=Mobile)**: S

**Ozone Depletion Potential**: 0

**Global Warming Potential**: 2289

**Oil Compatibility**: All

**Molar Mass lbm/Lbmol**: 108.52

**Normal Boiling Point (1 atm, °F)**: -42.35

**Critical Pressure (psia)**: 574.07

**Critical Temperature (°F)**: 181.79

**Critical Density [lbm/ft3]**: 32.86

**Liquid Density (70 °F, lbm/ft3)**: 73.053

**Vapor Density (NBP, lbm/ft3)**: 0.2817

**Temperature Glide (NBP)**: 10

**Temperature Glide (100 °F)**: 5

**Pounds Per Gallon (70 °F)**: 9.76

**Maximum Moisture (ppm)**: 10

**Maximum Non-Condensables (% vol)**: 1.5

**Maximum High Boiling Impurities (% vol)**: 0.01

**Recommended Maximum Exposure Limits in Air (ppm)**: 1000

**R-125 (% Weight)**: 55

**R-134a (% Weight)**: 42

**R-600a (% Weight)**: 3

*Per IPCC AR5*

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