

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!

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

Complete Specifications on Back

Impeccable Record of Field Performance

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.

ICOR
INTERNATIONAL
"making your life easier™"



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.

Evaporator temperature range

0 °F to 50 °F

Oils

MO, AB, POE and PVE

Direct Replacement for Refrigerants

22, 407C, 417A, 421A, 422D, 424A, 427A, 434A, 438A

Pre and Post conversion data

System information must be recorded for warranty

Go to www.icorinternational.com for complete warranty information

Flooded systems

Must be approved by ICOR's Technical Support Supervisor

Conversion considerations

NU-22B is compatible with mineral oil, alkyl benzene and polyol ester. 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.



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

System charging

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

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

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

Performance Comparison

Same as R-22 in air conditioning
Slightly lower than R-22 in refrigeration

EPA Hotline # 800.296.1996
www.epa.gov

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	2500
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

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