



Change from CFC and HCFC to HFC refrigerants may cause a retraction in the o-rings and elastomers. Be sure to repair or replace after recovery of the original refrigerant. Failure to address this at this time may cause unnecessary loss of refrigerant.

ICOR recommends verification of the metering device sizing with the distributor or manufacturer of the device.

**1) RECORD SYSTEM PRE-CONVERSION DATA:** Prior to converting, the system should be monitored and all system and component operating conditions recorded for future reference. (SEE FORM ON REVERSE SIDE)

**2) RECOVER THE REFRIGERANT** 100% of the refrigerant must be recovered from system in accordance with all EPA guidelines.\*Recording the weight of the refrigerant you recover will assist you in determining the amount of NU-22B® necessary for the conversion.

**3) PERFORM OIL ANALYSIS:** Check system oil for acidity, water and solids (metal shavings). If detected perform a complete system oil change using the OEM specified type and amount of oil.

**4) INSTALL NEW FILTER DRIER AND OIL FILTER:** The oil analysis will tell you what type of filter drier you need to use. Systems with coalescent oil separators and/or compressor oil filters need to be changed, too.

**5) LEAK CHECK SYSTEM:** Pressure test system with dry nitrogen. DO NOT exceed the equipment's design pressure. NU-22B® can be detected with any standard form of leak detection designed to detect HFC refrigerants.

**6) EVACUATE SYSTEM:** To remove non-condensables and moisture in the system, a minimum 500 micron vacuum must be achieved.

**7) CHARGE SYSTEM:** Remove LIQUID ONLY from NU-22B® cylinder. When initially charging system, NU-22B® can be added directly into the receiver tank or high-pressure side of the system with compressor off. Charge ratios for NU-22B® may vary depending on system design and application. The initial charge of NU-22B® should be 95% of the original existing refrigerant charge.

**8) RUN SYSTEM:** Check pressures, subcooling, and superheat temperatures. Use NU-22B® P/T chart on reverse side. If additional NU-22B® needs to be added, do so in 5% increments. If system performance is inadequate, call ICOR for support at 866-433-8324.

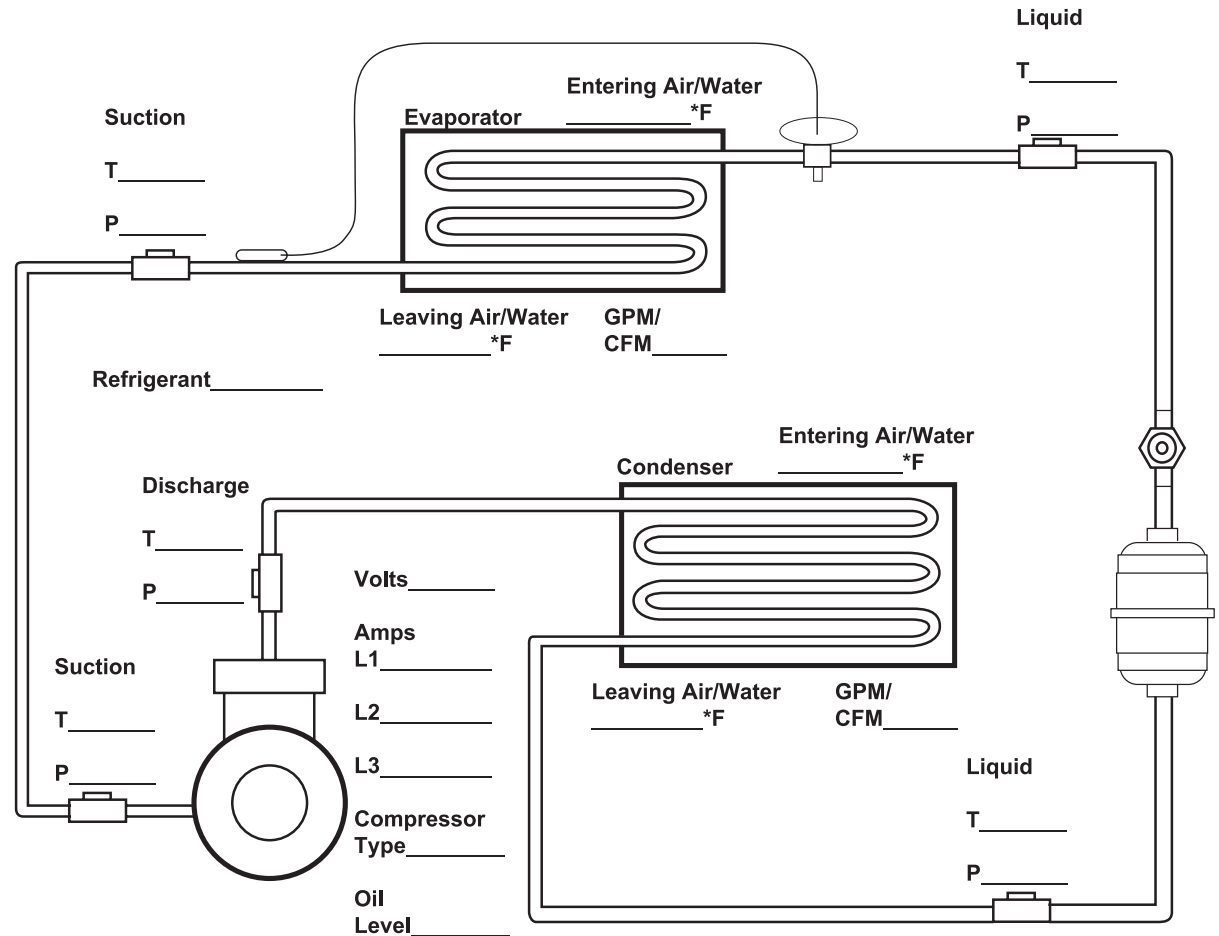
**9) PROPERLY LABEL SYSTEM:** Avoid mixing refrigerants by properly labeling your system. For NU-22B® system ID labels, call the ICOR support hotline at 800-497-6805.

**10) POSTCONVERSIONLEAKCHECK:** After operation of system begins, do a thorough system leak check.

**11) RECORD SYSTEM POST CONVERSION DATA:** Monitor and evaluate system performance and record data. This information can be compared to your pre-conversion data for a full conversion evaluation and can be used if further technical support is required.

## NU-22B® CONVERSION GUIDELINES

FOR R-22, R-407C, R-417A & R-422D DX SYSTEMS



NU-22B (R-422B) is a non-ozone depleting blend, which can be used as a direct refrigerant replacement into existing systems that are designed for R-22, R-407C or R-422D. It is compatible with all standard ACR system lubricants, i.e. MO, AB, and POE oils.

### System Requirements:

- 1) System must be designed for use with R-22 or R-407C, free of leaks, and in sound operating condition.
- 2) NU-22B is designed for use in systems utilizing direct expansion metering, i.e. TXV, orifice, cap tube. **Before using NU-22B in a flooded system consult ICOR's technical staff. NU-22B or any other replacement refrigerant should NOT be used in a Trane 3-D® or Danfoss SM scroll compressor. NU-22B or any other replacement refrigerant should NOT be used with an Electronic Expansion Valve (EEV).**

3) The system should be operating within its design capacity. Conversion to NU-22B will not increase system capacity. Consult ICOR before converting any system with pre-existing capacity problems.

4) The system should be charged with the proper type and amount of lubricant, as required by the original equipment and component manufacturers. If the system has inherent oil return problems or experiences post conversion oil return problems consult ICOR tech support at 866-433-8324.

NOTIFICATION TO USERS: The information contained in this document is given in good faith based on our current knowledge. It is only an indication and should not be construed as an endorsement or guarantee of performance to any specific application and is in no way binding. We guarantee that our products comply with our sales specifications. This information is not to be used as a substitution for system analysis as to suitability. Users are responsible for compliance with local, state, and federal regulations for recovery and evacuation.