

# **DURACOOOL REFRIGERANTS**

## **CHARGING PROCEDURE**

1. Recover any existing refrigerant charge into a suitable container, regulations vary by region and the recovery of existing refrigerant may need to be completed by an authorized technician. Leak test the system, if a leak is detected the system must be repaired prior to charging. DURACOOOL 12a® is flammable and should only be leak tested with an electronic hydrocarbon leak tester, soap bubbles or fluorescent tracer fluid. If leaks are detected, ventilate area, keep away from flames and repair the leak. After repair, continue with the charging procedure. Pull a vacuum of at least 25 cm Hg (10 in Hg).
2. Locate low side service port of the AC system. Generally it will have a blue or a black cap (Do not connect to high-pressure side. This may cause the components to fail and cause bodily injury.)
3. Remove low side dust cap. Connect hose to system by pushing on to the male service port fitting; ensure that the coupler fits snugly into place. The installation of conversion service port fittings may be required to permit connection.
4. Using only a device designed for the purpose, connect charging hose to the DURACOOOL 12a® container. Ensure that you are only charging liquid DURACOOOL 12a® into the low side of system.
5. After a minimum charge is achieved, start compressor and set system to high. When compressor cycles on and off about every 45 to 60 seconds stop the flow of refrigerant. Check vent for cooling. If cooling is inadequate or compressor is cycling excessively add small amounts of DURACOOOL 12a® by opening and closing valve handle. Low side pressures should read between 30 and 38 psi.
6. Do not overfill. Exercise patience and let the system operate for several minutes before adding refrigerant.
7. Apply refrigerant identification tag on dry area near installation port.
8. **DO NOT OVERCHARGE!** Exceeding 60 psig on low side may damage compressor. In some cases, clearing the sight glass overcharges the unit. Any overcharging may cause loss of cooling efficiency.

When charging systems with DURACOOOL 12a® the pressures should be the same for the low side and about 5-10% lower on the high side than they would be if you were to use R-12 or R-134a.