

## FREEZE 12<sup>®</sup>

SEVENTH IN A SERIES

When converting R-12 A/C systems over to Johnsen's Freeze 12, the amount of Freeze 12 to be charged is approximately 10% less than the amount of the original R-12 charge. However, in many cases the original R-12 charge is not known due to missing service labels or custom designed A/C systems. In addition, an accurate method of recharging 10% less Freeze 12 (like a digital scale) may not be available. As a solution, based on the field conversions of thousands of R-12 A/C systems to Freeze 12, an alternative method of recharging is available:

- 1) Set the engine at 1500 RPM until the vehicle reaches normal operating temperatures. Determine the temperature (using a calibrated thermometer) approximately 2 foot in front of the condenser.
- 2) Add 40° to the temperature observed.
- 3) Using a R-12 pressure/temperature chart, locate the temperature calculated in Step 2 and read across to the associated pressure. This is the target high side pressure in the system being converted.
- 4) **Slowly**, recharge the system being serviced with Freeze 12 until the high side pressure is approximately equal to the target pressure found on the R-12 pressure / temperature chart.

**Example:** Holding a calibrated thermometer approximately 2 foot in front of a condenser, a technician observes a temperature of 80°. Add  $80^{\circ} + 40^{\circ} = 120^{\circ}$ . On a R-12 pressure/temperature chart, 120° corresponds to approximately 157 PSI. **Slowly**, charge the A/C system with Freeze 12 until the high side pressure reaches approximately 157 PSI.

Are you looking for an alternative to R-12 that works? Call us at **1-800-598-6582** for a Freeze 12 distributor near you.