

 **Nu-Calgon** Presented by  
Robert Vosburgh

# TOTAL SYSTEM PROTECTION & REFRIGERATION OILS CLASS

**LAS VEGAS BRANCH: 4:00pm to 6pm - April 24th , 2019 • Food will be served!**

**3460 W. Post Road, Las Vegas, NV 89118 • Phone: (702) 361-1919**

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**Total System Protection:** A thorough look at why burnouts occur and how to prevent them. We will also cover what one should do when acid, carbon deposits, sludge, and copper plating exists in a compressor as well as acid testing and acid neutralization.

**Refrigeration Oils:** Refrigerant oils-an in depth look at Mineral, Alkylbenzene ,and Polyolester oils for the HVAC/R Industry. Rep. Robert Vosburgh will go over when and where to use these oils, go over viscosity, thermal stability and miscibility and their importance when determining which type of oil to use for a particular system.



### C-3s, C-4s, C-5s Mineral Oil

Nu-Calgon naphthenic mineral oil is specifically designed for today's high performance air conditioning and refrigeration compressors. These modern compressors run at higher speeds and generate higher temperatures, and they need better lubrication. Use of C-3s, C-4s, and C-5s mineral oil will insure continued efficient system operation.



### Zerol Alkylbenzene Oil

Zerol Refrigeration Oil is a high-quality, premium synthetic alkylbenzene refrigeration oil. It is similar in many ways to natural mineral oils but has superior properties that make it particularly valuable in refrigeration, air-conditioning applications. It is available in three grades: Zerol 150 (150 SUS), Zerol 200TD (200 SUS) and Zerol 300 (300 SUS).



### Emkarate RL Lubricant

The Emkarate family of lubricants is a wide range of polyol ester refrigeration oil products. They are designed specifically for use with HFC refrigerants, developed to meet the performance demands of the refrigeration industry. This superior performance is achieved with basefluids that are specifically formulated to deliver optimum performance with minimal additive levels.



### Rx-Acid Scavenger

Rx-Acid Scavenger provides a better, more convenient way to neutralized or "scavenge" acid in refrigeration, air conditioning systems after burnouts or during normal on-going systems maintenance. Normal dosage rate is 2 fl. oz. of Rx-Acid Scavenger for up to one gallon of system oil. That is 50% less than other acid neutralizing products.



### Rx11-flush Liquid

Rx11-flush Liquid is a new and improved chemistry that is the next generation in flushing technology. It remains a constant boiling solvent and is now stronger, faster acting and dissolves more oil, moisture and contaminants than any other flush. It is ideal for line sets, burnouts and other flushing requirements.



### Phase III Acid Test Kit

The concentrate of acid in refrigeration oil is expressed as an acid number in mg of KOH per gram of oil (milligrams of potassium hydroxide per gram of oil). The acid number is a measure of the amount of hydroxide solution needed to neutralize the acid in the oil. The more acid there is in the oil, the more potassium hydroxide is needed to neutralize it and, so, the higher the acid number.



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