

Essential.
Pure.
Hydrocarbons.

Diversified CPC Int'l



Refrigeration Systems

High Purity Refrigerants for High Performance

A refrigeration system is much like a manufacturing process — you get out of it what you put into it. A system's uptime, efficiency, and durability are directly related to the type of refrigerant it relies on to keep pace with plant demands. Employing high purity refrigerants, which are refrigerants with purity grades of 99.5% or higher, ensures optimal system performance.

For these systems, high purity refrigerants:

- Decrease operating costs
- Decrease maintenance and downtime
- Increase efficiency
- Increase effective horse power

High Purity for High Efficiency

Diversified CPC's high purity hydrocarbon natural refrigerants are 99.5% - 99.8+% pure, which provides for a more stable refrigerant than other hydrocarbon refrigerants available on the market. This directly translates into lower energy costs and higher refrigeration rates per horsepower of compression.

According to industry research, there is a direct and significant correlation between a refrigerant's purity and its effect on a system's compression power, refrigerant circulation rate, and condenser duty. For example, both ethane and butane impurities increase the condenser duty and the compression requirement. When pure propane is used, the compressor power and condenser heat duty are minimal.*

Low Contaminants for Low Risk

We manufacture our natural refrigerants to produce moisture, sulfur, and mercury levels to meet customer specifications. This significantly minimizes the amount of contaminants flowing through your system, which translates into less wear and tear on your equipment. Systems that rely on high purity refrigerants are far less likely to experience unexpected repair costs and production downtime, especially in relation to compressor seal failure.

*Source: "Effect of Impurities on Propane Refrigeration Systems - Constant Approach Temperature" by John M. Campbell & Company, Tip of the Month, March 2008



The Industry's Purest Refrigerants

Our industry-leading processes and equipment enable us to achieve refrigerant purity levels that others cannot. We offer the following high purity refrigerants, which are kept in stock and are available for immediate delivery.

- R290 Propane
- R1270 Propylene
- R600a Isobutane
- R600 n-Butane
- Blends

The Diversified Difference

Diversified CPC International is a global leader in the production of the highest quality specialty gases, aerosol propellants, alternative fuels, NGL refrigerants, and foam blowing agents. In addition to providing quality products, we maintain an unprecedented focus on client satisfaction and offer an array of value-added services. Diversified CPC provides safety and operations consultation, storage tank sales and installation, and supply chain management to help clients meet their safety and operational goals.



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