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# GX Cold Storage Solutions Offer Energy Efficient Performance – Helmer Scientific

Optimized temperature performance reduces energy consumption by 50-65% supporting environmental sustainability and a lower cost of ownership over the refrigerator's lifetime.

**President:** Bruce King

**Vice President of**

**Sales & Marketing:** Lori Gabrek

**Founded:** 1977

**Employees:** 300

**Stock Symbol:** Private Company

**Toll-Free Phone:** (800) 743-5637

**Phone:** (317) 773-9073

**Address:** 14400 Bergen Boulevard, Noblesville, IN 46060

**Website:** www.helmerinc.com



## Company Background

Helmer Scientific is a manufacturer and worldwide distributor of medical-grade cold storage and laboratory processing equipment. We have over 40 years of experience in providing high-quality temperature controlled environments, with our products being used in over 125 countries throughout the world. Helmer originated in the blood bank market where precise temperature control is essential to the successful storage and transfusion of blood products. These same principles have been applied to the design and development of the Helmer pharmacy cold storage products.

## Product Overview

GX Solutions Professional Medical-Grade Refrigerators are designed for the unique needs of critical healthcare applications such as medication and vaccine storage. Only professional medical-grade refrigerators deliver optimized control in three important areas: temperature, noise, and energy management.

Energy management is important for the professional healthcare environment. Refrigeration accounts for 2-3% of a hospital's electrical usage. GX Solutions are ENERGY STAR® certified and 50-60% more energy efficient than conventional medical-grade refrigerators.

GX Solutions are powered by OptiCool™ technology. The OptiCool™ system pairs a variable capacity compressor (VCC) and natural hydrocarbon (HC) refrigerants to efficiently manage energy consumption. This is accomplished using intelligent sensors to monitor operating conditions. When the door of the unit is opened, the VCC runs at a higher speed to deliver optimal temperature performance. When the temperature stabilizes, the VCC runs at a lower speed, resulting in overall lower energy consumption.

Additionally, OptiCool™ technology uses a naturally occurring refrigerant that is U.S. Environmental Protection Agency (EPA) and Significant New Alternatives Policy (SNAP) compliant. This natural refrigerant is environmentally friendly, having no impact on ozone depletion and an astonishingly low Global Warming Potential (GWP) grade.

GX Solutions help reduce a healthcare facility's footprint. By minimizing heat output, facilities are able to place refrigerators in small work areas without impact on their HVAC system. GX Solutions also aide in decreasing a facility's carbon footprint by dramatically decreasing the global warming potential (GWP) while meeting ever-changing energy standards.

## Features & Options

### Professional, Medical-Grade Performance

- Best-in-class temperature management, including uniformity, recovery, and stability, to safeguard medications and provide confidence that contents are stored at the precise temperature regardless of where they are placed within the unit.
- Designed for noise-sensitive areas such as medication rooms, pharmacies, and patient rooms, GX professional medical-grade refrigerators are three times quieter than traditional models leading to better rest for patients and fewer distractions for healthcare personnel.
- Energy management reduces operating costs and supports sustainability initiatives by utilizing a variable capacity compressor (VCC) system and natural refrigerants to create a highly-efficient cooling system.

### Continuous Monitoring Offers Safety and Security of Stored Product

The i.C3® Information Center provides constant temperature monitoring and multiple information logs, plus security features to keep crucial refrigerator settings protected.

- Information and Event Center records performance history of the unit as well as event acknowledgement.
- Guardian Plus Protection offers protected settings and limits refrigerator access with a key lock or optional integrated electromagnetic access control.
- Data Transfer Center offers data export of temperature, event and access data via USB port as PDF reports or CSV files.

### Customized Storage Options

- Standard configurations include ventilated, pull-out pharmacy drawers, and ventilated shelves.
- Configure the inside of the cabinet to meet your needs with pull-out drawers, adjustable shelves, or additional ventilated, pull-out pharmacy drawers.

### Medication and Vaccine Storage

- Factory pre-set to 5°C for pharmacy applications.
- Supports CDC guidelines for vaccine storage.
- Remote lock adapter kits available for integration with automated dispensing cabinets.
- Quiet operation for improved work environment (UC 42 dB, Upright 47-50dB).

