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# NSF/ANSI 456 Standard Compliant Vaccine Cold Storage From Helmer Scientific

NSF/ANSI 456 Vaccine Storage Standard promotes safety and efficacy by ensuring consistent vaccine storage conditions.

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**Founded:** 1977

**Employees:** 500

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## Company Background

Helmer Scientific is a manufacturer and worldwide distributor of medical-grade cold storage and laboratory processing equipment. We have over 45 years of experience in providing high-quality temperature-controlled environments, with our products used in over 125 countries throughout the world. Precise temperature control is essential to the successful storage of pharmaceuticals and Helmer cold storage products have been designed and developed with these principles.

## Product Overview

Proper storage and handling are critical to ensure the safety and viability of life-saving vaccines. Because vaccines require storage at specified temperature ranges, cold storage plays a significant role in the storage and handling process. The NSF/ANSI 456 Vaccine Storage Standard was published in 2021 by the NSF Joint Committee on Vaccine Storage to help define temperature performance attributes for vaccine storage units. The standard was developed using real-world cases common in healthcare environments.

To achieve NSF/ANSI 456 certification, several temperature performance standards must be validated by a third-party certifying body. These include short door opening tests to simulate regular daily use and long door opening tests to simulate less frequent events — such as inventory counts or cleaning. Both tests must be conducted with the unit loaded and unloaded.

Additional requirements for NSF/ANSI 456 certification include:

- Certified units are required to have calibration certificates as well as calibration and service schedules designed to ensure units remain in compliance.
- Digital temperature displays visible with unit doors closed.
- Both visual and audio high/low temperature excursion alarms.
- Auto-closing doors.

GX Solutions Professional Medical-Grade Refrigerators from Helmer Scientific are designed for the unique needs presented by critical vaccine storage and are NSF/ANSI 456 standard certified.

Powered by OptiCool™ technology, GX Solutions pair a variable capacity compressor (VCC) and natural hydrocarbon (HC) refrigerants to offer best-in-class temperature management, including optimized uniformity, stability, and recovery. This provides confidence that vaccines and medications are stored at the precise temperature regardless of where they are placed within the unit.

The new NSF/ANSI 456 Vaccine Storage Standard will set a new, higher standard for the performance of purpose-built, medical-grade vaccine refrigerators and freezers. Helmer Scientific GX Solutions are leading the way with temperature, energy, and noise management designed to safely store vaccines and ensure every dose counts.

## Features & Options

### ■ Professional, Medical-Grade Performance

- NSF/ANSI 456 Vaccine Standard Certified and supports CDC guidelines for vaccine storage.
- Optimized temperature performance that safeguards stored product ensuring vaccines and medications remain efficacious.
- Energy Star® certified and 50-60% more energy efficient than conventional medical-grade refrigerators while supporting environmental sustainability.
- Three times quieter than traditional models, leading to better rest for patients and fewer distractions for healthcare personnel.

### ■ 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.

- Records performance history of the unit, including event acknowledgment. Includes protected settings and limits refrigerator access with a key lock or optional integrated electromagnetic access control.
- Offers data export of temperature, event, and access data via USB port as PDF reports or CSV files.

