

# Helmer Vaccine Storage Solutions

Solutions to help you meet CDC Guidelines and the NSF/ANSI 456 Vaccine Storage Standard



## WHAT MAKES VACCINE REFRIGERATORS AND FREEZERS DIFFERENT?

Vaccine refrigerators and freezers, also referred to as “pharmaceutical-grade” or “purpose-built” units, are designed and manufactured specifically for the storage of temperature-sensitive vaccines. These units can be compact, under-the-counter style, or large upright units.

Helmer Scientific offers a full range of pharmacy refrigerators and freezers with superior temperature uniformity, recovery and stability. Local alarms, event logging and continuous temperature monitoring help the pharmacy meet guidelines and regulations. Ensure your temperature sensitive pharmaceuticals, medications and vaccines are protected with professional, medical-grade refrigeration.

## CDC VACCINE STORAGE & HANDLING GUIDELINES

The Center for Disease Control (CDC) guidelines and recommendations apply to all facilities that handle vaccines. The CDC encourages providers to move toward implementing these guidelines as soon as possible. Providers participating in the Vaccines for Children (VFC) program must pay extra attention to these guidelines and should consult their state or local immunization program for specific recommendations and requirements.

The Vaccine Storage and Handling Toolkit is a comprehensive guide developed by the CDC to reflect best practices for vaccine storage and handling. The vaccine toolkit is updated annually to account for advances in practices and changes.

### WHAT'S AT RISK WITH IMPROPER VACCINE STORAGE

Storage at manufacture recommended temperatures is essential for maintaining vaccine efficacy. Loss of potency can result from exposure to excessive heat, cold, and/or light. Once potency is lost, it cannot be regained. Administering ineffective vaccine puts patient and public health at risk of preventable disease.

### UNDERSTANDING THE CDC VACCINE GUIDELINES

The toolkit outlines CDC recommendations, which are the minimal actions required to protect your vaccine supply, as well as CDC Best Practices, which outlines additional actions, practices, and procedures to enhance protection of your vaccine supply. CDC encourages providers to implement these guidelines as soon as possible.

### SELECTING VACCINE STORAGE EQUIPMENT

The CDC recommends the use of “purpose-built” or “pharmaceutical-grade” units designed to either refrigerate or freeze. Vaccine units can be compact, under-the-counter style, or large uprights. “Purpose-built” or “pharmaceutical-grade” units are designed specifically for storage of biologics, including vaccines. The unit should include enough space to accommodate your maximum inventory without crowding.

# VACCINE REFRIGERATORS AND FREEZERS FROM HELMER SCIENTIFIC

## HELPING YOU MEET THE NSF/ANSI 456 VACCINE STORAGE STANDARD

Safe and effective vaccine storage is an essential part of protecting the population from devastating disease. Providers are looking to the CDC Vaccine Storage and Handling Toolkit for essential information on proper storage, handling, monitoring, and administration of vaccines.

In addition to CDC guidelines, the NSF Joint Committee for vaccine storage has finalized the NSF/ANSI 456 Vaccine Storage Standard to safeguard vaccines. This new standard is designed to ensure vaccine storage equipment can maintain 5°C +/- 3°C across all potential storage locations under varying load conditions to simulate real-world clinical environments. Not all cold storage units may meet the requirements of this standard, and it's important to select a unit that has been tested and certified to help ensure vaccine safety.

## GX SOLUTIONS PROFESSIONAL, MEDICAL-GRADE PHARMACY AND VACCINE REFRIGERATORS

GX Solutions professional, medical-grade pharmacy and vaccine refrigerators take cold storage to new levels. Focusing on temperature, noise, and energy management, GX Solutions are the first cold storage solutions to optimize all three areas and offer a professional, medical-grade solution.

GX Solutions are powered by OptiCool™ technology, which pairs variable capacity compressor (VCC) technology and natural hydrocarbons (HC) to achieve performance characteristics that offer a superior vaccine storage environment:

- » Optimized temperature management - uniformity, recovery and stability
- » Noise levels lowered - 3X quieter than conventional medical-grade refrigerators
- » Energy levels reduced - 50-65% more efficient than conventional medical-grade refrigerators
- » Environmental sustainability initiatives supported



Available in i.Series® and Horizon Series™ lines, GX Refrigerators are available in upright and undercounter models. For compact areas, a stacking kit is available to stack 2 undercounter units.

## GX PROFESSIONAL, MEDICAL-GRADE PHARMACY/VACCINE REFRIGERATORS

Model Number	Temp Range Setpoint	Capacity cu ft   L	Certified to NSF/ANSI 456 Vaccine Storage Standard	Electrical	Doors	Ventilated Drawers	Ventilated Shelves	Exterior Dimensions wxhxd in   mm	Net Weight
iPR105-GX HPR105-GX	+2° to +10°C 5°C	5.3   150	Yes	115V 60Hz 220-240 50/60 Hz	1	2	0	24 x 31.5 x 26.7 610 x 798 x 678	182   83
iPR113-GX HPR113-GX	+2° to +10°C 5°C	13.3   377	Yes	115V 60Hz 220-240 50/60 Hz	1	5	1	24.1 x 70.5 x 26.1 612 x 1790 x 663	338   154
iPR120-GX HPR120-GX	+2° to +10°C 5°C	20.2   572	Yes	115V 60Hz 220-240 50/60 Hz	1	6	1	29 x 79.6 x 28.2 737 x 2021 x 715	438   199 487   221
iPR125-GX HPR125-GX	+2° to +10°C 5°C	25.2   714	Yes	115V 60Hz 220-240 50/60 Hz	1	6	1	29 x 79.6 x 34.2 737 x 2021 x 867	517   235 514   234
iPR245-GX HPR245-GX	+2° to +10°C 5°C	44.9   1271	Yes	115V 60Hz 220-240 50/60 Hz	2	12	2	59 x 79.6 x 28.2 1499 x 2021 x 715	775   352 774   352
iPR256-GX HPR256-GX	+2° to +10°C 5°C	56   1586	Yes	115V 60Hz 220-240 50/60 Hz	2	12	2	59 x 79.6 x 34.2 1499 x 2021 x 867	827   376 817   371

ADA compliant full-length handle and compatible with ADA compliant countertops

## GX SOLUTIONS PROFESSIONAL MEDICAL/PHARMACEUTICAL-GRADE -30°C LABORATORY FREEZERS

GX Solutions professional, medical-grade laboratory freezers feature ventilated shelves and a solid door for secure storage of vaccines and medications. Focusing on temperature, noise, and energy management, GX Solutions are the first cold storage solutions to optimize all three areas and offer a professional, medical-grade solution.

GX Solutions are powered by OptiCool™ technology, which pairs variable capacity compressor (VCC) technology and natural hydrocarbons (HC) to achieve performance characteristics that offer a superior vaccine storage environment:

- » Optimized temperature management - uniformity, recovery and stability
- » Noise levels lowered - 3X quieter than conventional medical-grade freezers
- » Reduced energy consumption - 35-45% more efficient than conventional medical-grade freezers
- » Environmental sustainability initiatives supported
- » Program electrical defrost cycles to run at low use periods for greater efficiency

Available in i.Series® and Horizon Series™ lines, GX Freezers are available in upright and undercounter models. For compact areas, a stacking kit is available to stack 2 undercounter units.



## GX SOLUTIONS -30°C MEDICAL-GRADE LABORATORY FREEZERS

Model Number	Temp Range Setpoint	Capacity cu ft   L	Certified to NSF/ANSI 456 Vaccine Storage Standard	Electrical	Doors	Ventilated Shelves	Exterior Dimensions wxhxd in   mm	Net Weight lb   kg
iLF105-GX* HLF105-GX*	-15° to -30°C -30°C	5.3   150	Yes**	115V 60Hz 220-240V / 50/60Hz	1	2	24 x 31.5 x 26.7 610 x 798 x 678	179   82
iLF120-GX HLF120-GX	-15° to -30°C -30°C	20.2   572	Yes**	115V 60Hz 220-240V / 50/60Hz	1	4	29 x 80.3 x 28.6 737 x 2039 x 726	400   182 397   181
iLF125-GX HLF125-GX	-15° to -30°C -30°C	25.2   714	Yes**	115V 60Hz 220-240V / 50/60Hz	1	4	29 x 80.3 x 34.6 737 x 2039 x 878	444   202 441   201

\*Compatible with ADA-compliant countertops

\*\*Must be configured with NSF/ANSI 456 Vaccine Storage Certification option (includes Certificate of Calibration)

## CUSTOM CONFIGURATIONS AND STORAGE SOLUTIONS

Helmer offers shelves, ventilated drawers, stainless steel solid drawers and locking drawers that can be customized to suit your application. For complete information on GX Solutions pharmacy refrigerators and laboratory freezers, please visit our website: [helmerinc.com](http://helmerinc.com).

For more information visit:  
[helmerinc.com/vaccine-refrigerators](http://helmerinc.com/vaccine-refrigerators)

