



# The First Professional Medical-grade Refrigerators

i.Series® and Horizon Series™ Refrigerators

Pharmacy | Blood Bank | Clinical



**GX Solutions**  
powered by OptiCool™

 Helmer

# What is a professional medical-grade refrigerator?

Professional medical-grade refrigerators are designed with the unique needs of the healthcare environment in mind. Only professional medical-grade refrigerators deliver optimized control in three important areas...



## Temperature management

to safeguard patient samples and ensure medications remain efficacious.



## Noise management

to provide a more comfortable environment for patients and a more productive workplace for staff.



## Energy management

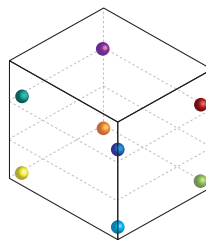
to reduce operating costs and support sustainability initiatives.

## GX Solutions are the first cold-storage solution to offer optimized control in all three areas and offer the following benefits:



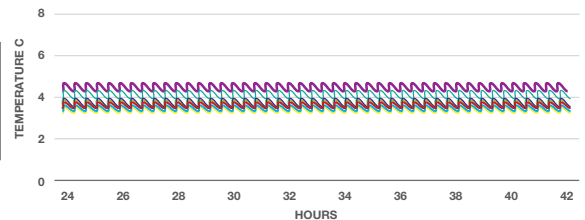
### Temperature Management

**Uniformity** - *Temperatures are maintained within  $\pm 1^{\circ}\text{C}$  throughout the unit.* This provides confidence that contents are stored at the right temperature regardless of where they are placed within the unit.

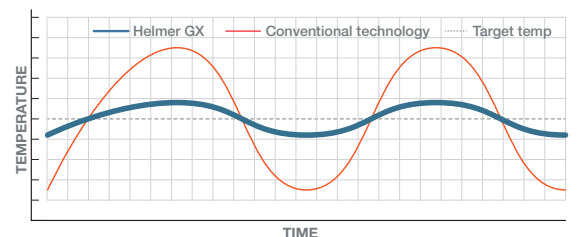
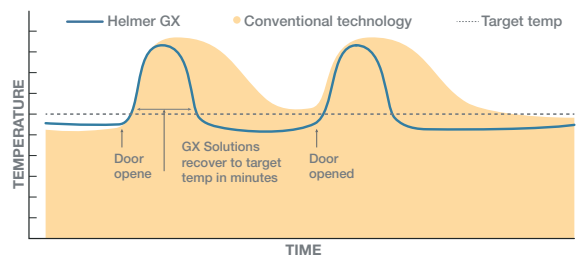


Probe locations for uniformity testing.

**Recovery** - *Faster recovery after prolonged door openings.* Forced-air circulation keeps contents at the right temperature even when the unit is opened multiple times per hour for stocking, inventory counts and product retrieval.



**Stability** - *Maintain superior temperature stability.* This creates fewer deviations from the set point and avoids rapid, significant changes in temperature ensuring that patient samples, medications/vaccines or blood therapies are always in their optimal storage environment.

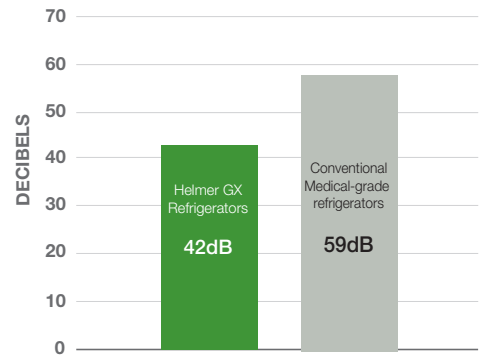


## Professional Medical-grade Refrigeration - OptiCool™ Cooling System



### Noise Management

Designed for noise-sensitive areas such as medication rooms, pharmacies, labs, and patient rooms, GX professional medical-grade refrigerators are 3x quieter than traditional models leading to better rest for patients and fewer distractions for healthcare personnel.



Every increase of 10dB on the scale is equivalent to a 10-fold increase in sound intensity.



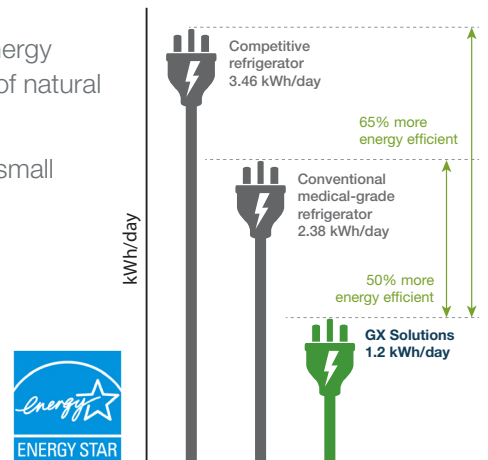
### Energy Management

GX Solutions are ENERGY STAR® certified and 50-65% more energy efficient than conventional medical-grade refrigerators. The use of natural hydrocarbons:

**Reduces heat output** - allows facilities to place refrigerators in small work areas while limiting impact on HVAC system.

**Decreases carbon footprint** - uses natural hydrocarbon (HC) refrigerants to dramatically decrease global warming potential.

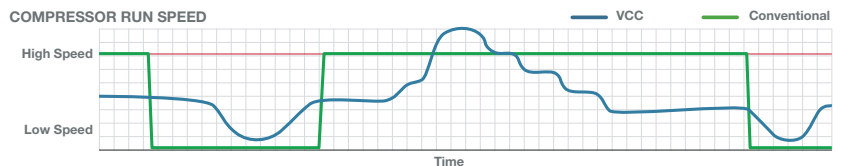
**Meets ever-changing energy standards** - GX refrigerants are compliant with the Significant New Alternatives Policy (SNAP).



## Powering the 1st professional medical-grade refrigerators

The OptiCool™ cooling system pairs a variable capacity compressor (VCC) and natural hydrocarbon (HC) refrigerants.

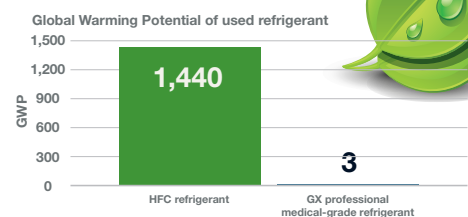
### How does a VCC system optimize temperature performance and energy efficiency?



The OptiCool™ cooling system uses 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 lower energy consumption.

### Natural Refrigerants Support Environmental Sustainability

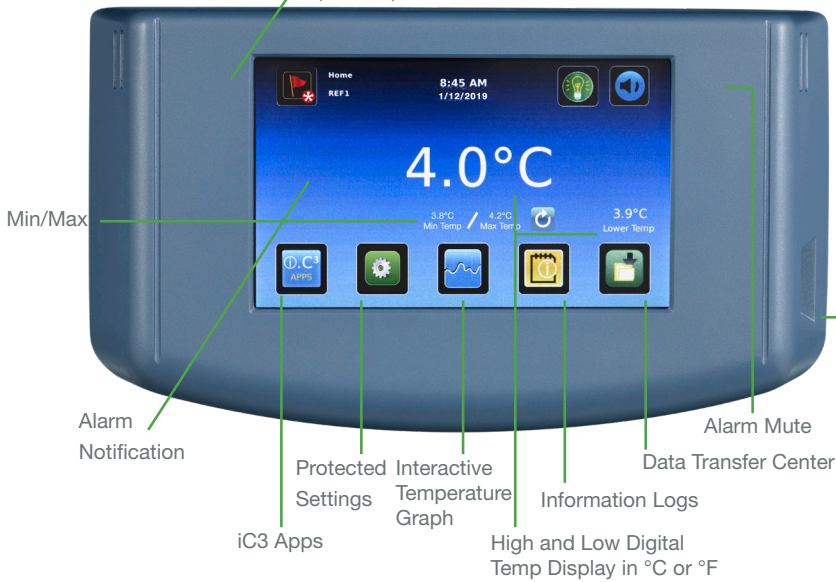
The OptiCool™ cooling system uses R600a, a naturally occurring refrigerant that is Environmental Protection Agency (EPA), Significant New Alternatives Policy (SNAP), and EU F-Gas compliant. This natural refrigerant is environmentally friendly, having no impact on ozone depletion and a very low Global Warming Potential (GWP) grade.



## GX Solutions are available in i.Series® and Horizon Series™ Lines

### i.Series®

7" (177mm) door-mounted touchscreen



### i.C3® Information Center

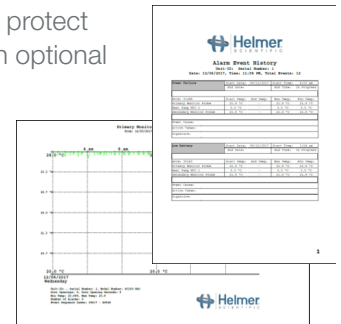
The i.Series i.C3 Information Center provides constant temperature monitoring and multiple information logs while offering security features to keep settings safe.

**System Status Console** - monitor status of the unit with one quick glance at the home screen.

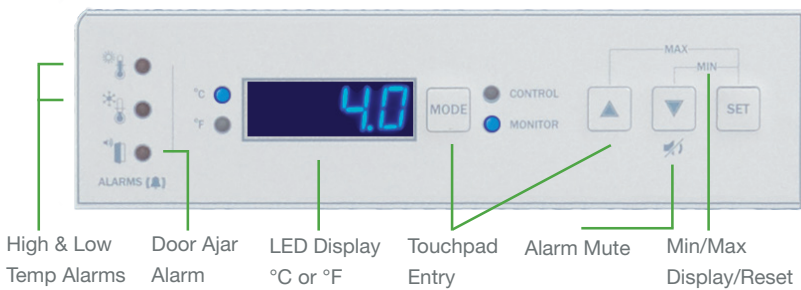
**Information and Event Center** - records performance history of unit including event acknowledgement. Includes event status, min/max temps and 7 and 1-day interactive graph views.

**Guardian Plus Protection** - protect settings and limit access with optional integrated electromagnetic access control.

**Data Transfer Center** - export temperature, event and access data via USB port. PDF reports and CSV files available.



### Horizon Series™



### Horizon Controls

A digital microprocessor temperature controller with a built-in alarm powers the Horizon Series models. Min/Max display and reset are included. Optional integrated electromagnetic access control offers secure access to the refrigerator via the Horizon Access Control Keypad.

	i.Series	Horizon Series
Monitor/Logging	Event log records date, time and temperature data	N/A
Compliance Data	Download PDF Reports and CSV files via USB port	N/A
Security	Password protected settings	N/A
Temperature Graphing	Interactive temperature graph	N/A
Temperature Alarm Test	Automatic high/low alarm testing (Peltier-based)	Manual alarm test
Alarm Probe(s)	1 - stainless steel in product simulation bottle	1 - stainless steel in product simulation bottle
Standard Alarms	High and low temperature, Door open, Power failure	High and low temperature, Door open, Power failure
Additional Alarms	Condenser temperature, Probe failure, Low battery	N/A
Min/Max Temperatures	Display and reset	Display and reset
Backup Power	Rechargeable battery backup - 20 hrs	Battery backup - 2 hrs
Connectivity	Ethernet/API	N/A
Dry contact alarm connections	Yes	Yes
Digital calibration	Yes	Yes
Warranty	7 yr compressor / 2 yr parts / 1 yr labor*	5 yr compressor / 2 yr parts / 1 yr labor*

\* Warranties applicable in US and Canada. For international warranty information, contact your local distributor.

# GX Solutions Professional Medical-grade Pharmacy Refrigerators



## Medication and Vaccine Storage

GX professional medical-grade undercounter pharmacy refrigerators feature ventilated, pull-out pharmacy drawers and a solid, field-reversible door for secure storage of vaccines, pharmaceuticals, chemotherapy and other products requiring safe cold storage.

- » ENERGY STAR® certified
- » Factory pre-set to 5°C for pharmacy applications
- » Quiet operation at just 42dB
- » Sustainable U.S. EPA and SNAP compliant natural refrigerants and foaming agents
- » Supports CDC guidelines for vaccine storage

## Construction

- » Forced-air circulation maintains chamber temperature uniformity and provides quick recovery after door openings
- » Solid, self-closing door maintains optimal storage conditions
- » Fully extendable ventilated pharmacy drawers; easy-to-clean and adjustable for storage flexibility
- » No defrost cycle required to maintain constant temperature
- » Bacteria-resistant powder coated interior and exterior
- » Front ventilation eliminates need for top or side clearance
- » Four leveling feet
- » Recessed floor contains spills for easy clean up and to maintain integrity of stored product
- » Key lock, settings security and optional access control
- » Remote lock adapter kits available for automated dispensing cabinets



### GX professional, medical-grade pharmacy refrigerators - undercounter

Model Number	Temp Range Setpoint	Capacity cu ft   L	Electrical	Doors	Ventilated Drawers	Sound level	Interior Dimensions w x h x d in. mm	Exterior Dimensions* w x h x d in. mm	Net Weight lb   kg
iPR105-GX	+2° to +10°C 5°C	5.3 150	115V 60Hz 230V 50Hz 230V 60Hz	1 Solid	2	42 dB	19.5 x 19.9 x 22.8 496 x 505 x 580	24 x 31.5 x 26.7 610 x 798 x 678	182 83
HPR105-GX	+2° to +10°C 5°C	5.3 150	115V 60Hz 230V 50Hz 230V 60Hz	1 Solid	2	42 dB	19.5 x 19.9 x 22.8 496 x 505 x 580	24 x 31.5 x 26.7 610 x 798 x 678	182 83

\*Compatible with ADA compliant countertops

Can be used undercounter, free-standing or stacked



# GX Solutions Professional Medical-grade Blood Bank Refrigerators



## Blood and Blood Component Storage

GX professional medical-grade undercounter blood bank refrigerators feature solid, stainless steel pull out drawers and a solid, field-reversible door. They are designed to meet the strict requirements of AABB for secure storage of whole blood and blood components.

- » ENERGY STAR® certified
- » Factory pre-set to 4°C to meet blood storage guidelines
- » Quiet operation at just 42dB
- » Sustainable U.S. EPA and SNAP compliant natural refrigerants and foaming agents
- » Meets AABB, ARC, FDA, EU Blood Directive 2004/33/EC, and Part 4 of the Blood Safety and Quality Regulation 2005 standards for blood storage at 4°C



## Construction

- » Forced-air circulation maintains chamber temperature uniformity and provides quick recovery after door openings
- » Solid, self-closing door maintains optimal storage conditions
- » Solid, stainless steel pull out drawers with liquid-tight construction for containment of spills, fully extendable
- » No defrost cycle required to maintain constant temperature
- » Chart recorder with 7-day circular charts (inkless)
- » Bacteria-resistant powder coated interior and exterior
- » Front ventilation eliminates need for top or side clearance
- » Four leveling feet
- » Recessed floor contains spills for easy clean up and maintain integrity of other stored products
- » Key lock, settings security and optional access control



### GX professional, medical-grade blood bank refrigerators - undercounter

Model Number	Temp Range Setpoint	Capacity cu ft   L	Bags	Electrical	Doors	Solid Drawers	Sound level	Interior Dimensions w x h x d in. mm	Exterior Dimensions* w x h x d in. mm	Net Weight lb   kg
IBR105-GX	+2° to +10°C 4°C	5.3 cu ft   150 L	78	115V 60Hz 230V 50Hz 230V 60Hz	1, solid	2	42 dB	19.5 x 19.9 x 22.8 496 x 505 x 580	24 x 31.5 x 26.7 610 x 798 x 678	186   85
HBR105-GX	+2° to +10°C 4°C	5.3 cu ft   150 L	78	115V 60Hz 230V 50Hz 230V 60Hz	1, solid	2	42 dB	19.5 x 19.9 x 22.8 496 x 505 x 580	24 x 31.5 x 26.7 610 x 798 x 678	186   85

\*Compatible with ADA compliant countertops

Can be used undercounter, free-standing or stacked



# GX Solutions Professional Medical-grade Laboratory Refrigerators



## Clinical Samples, Reagents and Controls Storage

GX professional medical-grade laboratory refrigerators feature ventilated shelves and a solid, field-reversible door for secure storage of patient samples, reagents, laboratory media and other products requiring safe cold storage.

- » ENERGY STAR® certified
- » Factory pre-set to 4°C for laboratory applications
- » Quiet operation at just 42dB
- » Sustainable U.S. EPA and SNAP compliant natural refrigerants and foaming agents

## Construction

- » Forced-air circulation maintains chamber temperature uniformity and provides quick recovery after door openings
- » Solid, self-closing door maintains optimal storage conditions
- » Ventilating shelves with side and rear guards are adjustable for storage flexibility
- » No defrost cycle required to maintain constant temperature
- » Bacteria-resistant powder coated interior and exterior
- » Front ventilation eliminates need for top or side clearance
- » Four leveling feet
- » Recessed floor contains spills for easy clean up and to maintain integrity of other stored products
- » Key lock, settings security and optional access control



## GX professional, medical-grade laboratory refrigerators - undercounter

Model Number	Temp Range Setpoint	Capacity cu ft   L	Electrical	Doors	Ventilated Shelves	Sound level	Interior Dimensions w x h x d in. mm	Exterior Dimensions* w x h x d in. mm	Net Weight lb   kg
iLR105-GX	+2° to +10°C 4°C	5.3 150	115V 60Hz 230V 50Hz 230V 60Hz	1 Solid	2	42 dB	19.5 x 19.9 x 22.8 496 x 505 x 580	24 x 31.5 x 26.7 610 x 798 x 678	174 79
HLR105-GX	+2° to +10°C 4°C	5.3 150	115V 60Hz 230V 50Hz 230V 60Hz	1 Solid	2	42 dB	19.5 x 19.9 x 22.8 496 x 505 x 580	24 x 31.5 x 26.7 610 x 798 x 678	174 79

\*Compatible with ADA compliant countertops

Can be used undercounter, free-standing or stacked



### Options and accessories

**Integrated Electromagnetic Access Control** - Offers secure access to the refrigerator via the i.C3® Information Center (i.Series®) or Horizon Access Control Keypad (Horizon Series™). An electromagnetic lock is integrated into the unit and controlled by PIN or user code. Up to 100 unique user IDs. Key override included.

**Remote Alarms** - Free standing, extend existing alarms to remote locations with audible and visual signals. Operational up to 3000' (914m) from cabinet. Can be connected to a central alarm system.

**Temperature Chart Recorders** - Standard on blood bank refrigerators, optional on other models. Chart recorder is 4" (102mm), 7-day, with inkless pressure-sensitive chart paper. Backup battery and box of 52 charts included.

**Remote Lock Adapter Kits** - Locks for automated dispensing cabinets provide additional access control. Special accessories allow proper installation on Helmer Scientific refrigerators. Compatible with most systems.

**Interior LED Light** - Energy-efficient LED lighting illuminates interior and includes on/off switch.

**Stainless Steel Interior and/or Exterior** - Must be ordered as factory-installed options.

**Stacking Kit** - Hardware to stack two undercounter units.

**Floor and Wall Bracket Kit** - Floor mounting brackets and cabinet anchor hardware to secure refrigerator to the building floor and/or wall.

**Door Style** - Undercounter refrigerators come standard with a solid door. Dual-pane glass door is available. All refrigerators are standard right hinged, left-hinged doors may be ordered. Available factory or field-installed.

**Swivel, Locking Casters** - 2" (50mm)

**Drawer Dividers** - Polycarbonate upright or angled dividers for use in solid, pull-out drawers. One set per drawer.

**Storage Trays** - Package includes tray, dividers and rails to organize storage areas.

**Pedestal** - Base elevates undercounter refrigerator above the floor. Includes brackets to secure unit to pedestal.

**Solid Ballast Simulator**- Equivalent temperature performance to glycol bottle, without requiring filling/refilling or other regular maintenance.

**Customized Storage** - Select from Shelves, Ventilated Drawers, Stainless Steel Drawers (i.Series and Horizon Series) and Locking Drawers.

### Services

**Certificate of Calibration** - Model and serial number certified to a NIST (National Institutes of Standards and Technology) traceable instrument. Conforms to ISO 17025 international standards for calibration testing and traceability. Must be requested at time of ordering.

**Temperature Validation Service** - Package certifies temperature performance of the refrigerator. A multiple point temperature recorder maps the temperature inside the refrigerator chamber and a document with data will be provided with a certificate of calibration for the test instrument. Must be ordered at time of purchase.

**IQ/OQ Equipment Validation Guides** - Provides documentation for Installation and Operational Qualifications (IQ/OQ), as well as an outline of suggested topics for performance qualification (PQ). Guide is provided via CD.

**Full Level Service Agreements** - Can be designed to include on-site parts, labor, preventative maintenance and/or calibration services.

**GX Solutions. The first professional medical-grade refrigerators.  
Only for medical professionals. Only from Helmer Scientific.**

