

# Refrigerators

Upright Laboratory & Pharmacy



i.Series®  
Horizon Series™

# Laboratory & Pharmacy Refrigerators

Helmer has provided high-quality laboratory equipment and refrigerated products for over 35 years. Our experience and attention to detail allow us to provide a product that offers superior uniformity, outstanding reliability, and exceptional benefits that bring value every day. In addition, our commitment to service and support ensures satisfaction throughout the life of your product. Whether storing blood products, reagents, vaccines, or medication, a Helmer product offers TrueBlue™ protection.



## Reduced Humidity Levels Create Dry Storage Environment

Helmer has developed a proprietary approach to refrigeration for i.Series and Horizon Series Laboratory and Pharmacy Refrigerators resulting in reduced condensation on boxes and other containers.

## Helmer Refrigerators Deliver

### High-Quality Craftsmanship

- Superior chamber temperature uniformity and quick recovery with heavy-duty, air-cooled refrigeration system
- Operating temperature range from +2°C to +10°C
- Bacteria-resistant powder coated exterior and interior for added security
- Sure-Seal self-closing door with magnetic closure eliminates broken door latches
- Custom storage capabilities with roll out baskets, full or half-size shelves, and stainless steel drawers provide maximum storage versatility
- Adjustable LED lighting provides energy-efficient illumination with auto-on feature and ON/OFF switch
- Hospital grade plug enhances electrical safety/serviceability

### Secure Monitoring for a Safe Storage Environment

- i.C<sup>3</sup>® with 7" (177mm) full-color touchscreen (i.Series®)
- Microprocessor temperature controller with built-in alarm/monitor (Horizon Series™)
- Key lock
- Password protected settings (i.Series)

### Designed for Convenience & Performance

- Single and double door models from 11 cf (326 L) to 56 cf (1586 L)
- ADA compliant door handle(s)
- Position flush with a countertop, cabinet, or other equipment with no additional clearance required
- Recessed floor contains spills for easy clean-up
- Rechargeable battery backup (i.C<sup>3</sup>)

## i.Series® and Horizon Series™ Lines

Helmer has two distinct refrigerator lines. The i.Series offers many unique features not found on other refrigerator models. The i.C<sup>3</sup>® User Interface anchors this top-of-the-line series. It offers constant temperature monitoring and control, multiple information logs, event acknowledgement and downloading via a 7" (177mm) full-color touchscreen. (See page 5 for more information.)

The Horizon Series offers a temperature controller with a built-in alarm. It features an LED digital temperature display, programmable high and low temperature alarms, manual alarm checks, and a programmable operating range.

Both the i.Series and Horizon Series offer high quality construction and attention to detail throughout.



## Laboratory & Pharmacy Models

- i.Series and Horizon Series lines.
- Capacity from 11 cf to 56 cf (326 L to 1586 L)

### Upright Models

- Double door with 8 shelves (Laboratory) or 2 shelves and 12 roll out baskets (Pharmacy)
- Single door with 4 shelves (Laboratory)
- Single door with 1 shelf and 6 roll out baskets (20 and 25 cf / 572 and 714 L) or 1 shelf and 5 roll out baskets (11 cf / 326 L) (Pharmacy)
- Door-mounted, eye-level controls (i.Series)



# Upright Refrigerators

## Temperature Control and Monitoring

### i.Series®

- i.C<sup>3</sup>®, with 7" (177mm) full-color touchscreen monitor described on page 5
- Two stainless steel monitoring probes in product simulation bottles (single probe in iLR111 / iPR111)
- Temperature display in °C or °F

### Horizon Series™

- Digital microprocessor temperature controller with a built-in alarm/monitor factory set to 4°C
- Single, stainless steel monitoring probe in product simulation bottle
- Digital offset adjustment for calibration

## Refrigeration System

- Heavy-duty, air-cooled refrigeration system with non-CFC R-134A refrigerant provides high efficiency and is environmentally friendly
- Forced-air circulation maintains chamber uniformity and provides quick recovery after door openings
- Auto condensate evaporation.
- Evaporator fan(s) shut off during door openings to maintain stable temperatures
- Low humidity levels with reduced condensation

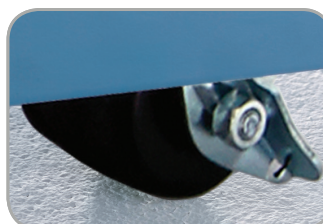
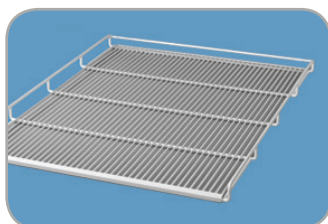
## Storage

- Adjustable, epoxy coated wire shelves (Laboratory & Pharmacy)
- Side and rear guards prevent items from falling off shelves
- Roll out baskets with fully extendable slides (Pharmacy)
- Stainless steel standards guard against rust and corrosion



## Cabinet Construction

- Bacteria-resistant powder coated interior, exterior, and door handle(s)
- Ergonomic Sure-Grip door handle is padded for comfort (i.Series)
- Superior engineered frame for maximum rigidity
- Dual-pane glass door(s) with ADA compliant full-length handle(s)
- Innovative self-closing Sure-Seal door system with magnetic seal
- Key lock
- LED lighting with control panel mounted switch - Auto ON/OFF (i.Series)
- Minimum of 2" (51mm) non-CFC foamed urethane insulation
- Swivel locking casters
- Access port located in top of cabinet for external monitoring probe(s) and one side-wall access port with interior and exterior plugs.
- Rechargeable battery is environmentally friendly and long-lasting (i.C<sup>3</sup>)
- Recessed floor for easy clean-up
- Hospital grade plug and cord



# i.C<sup>3</sup> Monitor · Acknowledge · Download

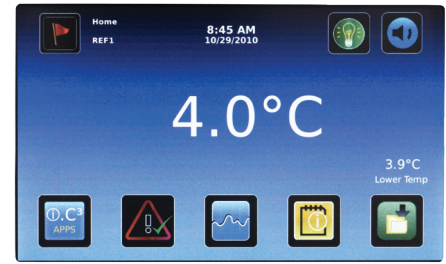
*Exclusively on i.Series® Models*

i.Series refrigerators are monitored with Helmer's exclusive i.C<sup>3</sup> user interface. The i.C<sup>3</sup> provides constant temperature monitoring and control, and multiple information logs with historical data that can be downloaded and saved.

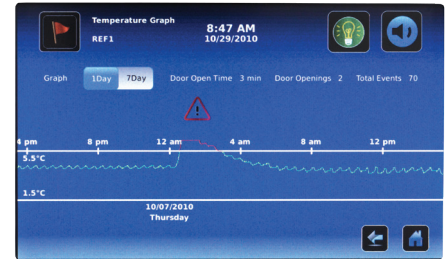
i.Act™ event acknowledgement allows users to immediately record corrective actions on-screen at the time of the event. Once downloaded, this information will be available to maintain quality control data for auditing purposes.

This icon driven monitoring system features a door mounted 7" (177mm) full-color touchscreen ergonomically placed at eye-level on upright models and angled on undercounter models. The i.C<sup>3</sup> includes sound and visual indicators, and touch navigation. An interactive temperature graph, home screen customization, password protection, and modular design for future options are also included.

The i.D™ Integrated Electronic Access Control factory-installed option offers secure access to the unit via PIN entry on the i.C<sup>3</sup> for up to 100 users. For more information see page 8.



Home



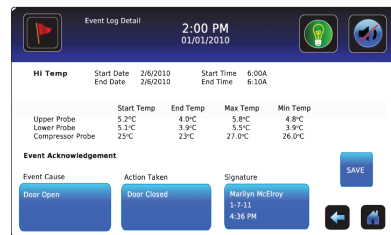
Temperature Graph





Download

## i.Act™ Event Acknowledgement

Enter Event Cause, Action Taken, and Signature directly on-screen and download for audits



## i.Series® / Horizon Series™ Monitoring

i.Series®	Horizon Series™
<div style="text-align: center;">  </div> <p><b>Exclusive i.C<sup>3</sup> User Interface</b></p> <ul style="list-style-type: none"> <li>· 7" (177mm) full-color, door-mounted touchscreen</li> <li>· Automatic high/low alarm testing (Peltier based)</li> <li>· USB ports (2) for download/upload/upgrade</li> <li>· Optional RS232 data port</li> <li>· Dry contact alarm connection</li> <li>· Password protected settings</li> <li>· Dual alarm probes<sup>1</sup></li> <li>· Digital display of upper and lower chamber temperatures in °C and °F<sup>1</sup></li> <li>· Event log displays date, time, and temperature data</li> <li>· Compressor log displays compressor temperature performance</li> <li>· Interactive temperature graph</li> <li>· Min/max available through download</li> <li>· Digital calibration</li> <li>· Rechargeable battery backup</li> <li>· Date and time display</li> <li>· Alarm mute with adjustable ring-back interval</li> <li>· Adjustable alarm volume</li> <li>· Four alarm tones</li> <li>· High and low temperature alarms</li> <li>· Door ajar alarm</li> <li>· Power failure alarm</li> <li>· Condenser temperature alarm</li> <li>· RJ45 hub<sup>3</sup></li> </ul>	<div style="text-align: center;">  </div> <p><b>Microprocessor-based controller with alarm/monitor</b></p> <ul style="list-style-type: none"> <li>· LED digital display, top bezel mounted</li> <li>· Manual alarm test</li> <li>· Dry contact alarm connection</li> <li>· Single alarm probe</li> <li>· LED display of chamber temperature in °C and °F<sup>2</sup></li> <li>· Min/max display and reset<sup>2</sup></li> <li>· Digital calibration</li> <li>· Battery backup</li> <li>· Alarm mute with 5-minute ring-back interval</li> <li>· Alarm silence with key switch</li> <li>· High and low temperature alarms</li> <li>· Door ajar alarm</li> <li>· Power failure alarm</li> </ul>

<sup>1</sup>11 cu ft (326 liter) models: single alarm probe and upper temperature display only

<sup>2</sup>Coming soon <sup>3</sup>For special applications

# Specifications

Model/Series	Operating Range	Doors	Volume (cu ft / liter)	Interior Dimensions (w x h x d) (in/mm)	Exterior Dimensions* (w x h x d) (in/mm)	Shelves	Baskets	Compressor	Electrical	Net Weight
<b>Single Door</b>										
<b>iLR111</b> i.Series	2° to 10°C	1	11.5 / 326	20 x 49.5 x 20 508 x 1258 x 508	24.25 x 70.5 x 24.5 616 x 1791 x 623	4	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.0FLA 230V 50/60Hz 3.5FLA	322 lb / 147 kg
<b>HLR111</b> Horizon Series	2° to 10°C	1	11.5 / 326	20 x 49.5 x 20 508 x 1258 x 508	24.25 x 70.5 x 24.5 616 x 1791 x 623	4	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.0FLA 230V 50/60Hz 3.5FLA	315 lb / 143 kg
<b>iLR120</b> i.Series	2° to 10°C	1	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 79.5 x 29.5 750 x 2020 x 750	4	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	473 lb / 215 kg
<b>HLR120</b> Horizon Series	2° to 10°C	1	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 78.75 x 29.5 750 x 2001 x 750	4	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	470 lb / 214 kg
<b>iLR125</b> i.Series	2° to 10°C	1	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 79.5 x 35.5 750 x 2020 x 902	4	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	484 lb / 220 kg
<b>HLR125</b> Horizon Series	2° to 10°C	1	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 78.75 x 35.5 750 x 2001 x 902	4	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	481 lb / 219 kg
<b>iPR111</b> i.Series	2° to 10°C	1	11.5 / 326	20 x 49.5 x 20 508 x 1258 x 508	24.25 x 70.5 x 24.5 616 x 1791 x 623	1	5	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.0FLA 230V 50/60Hz 3.5FLA	357 lb / 162 kg
<b>HPR111</b> Horizon Series	2° to 10°C	1	11.5 / 326	20 x 49.5 x 20 508 x 1258 x 508	24.25 x 70.5 x 24.5 616 x 1791 x 623	1	5	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.0FLA 230V 50/60Hz 3.5FLA	350 lb / 159 kg
<b>iPR120</b> i.Series	2° to 10°C	1	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 79.5 x 29.5 750 x 2020 x 750	1	6	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	525 lb / 239 kg
<b>HPR120</b> Horizon Series	2° to 10°C	1	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 78.75 x 29.5 750 x 2001 x 750	1	6	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	522 lb / 237 kg
<b>iPR125</b> i.Series	2° to 10°C	1	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 79.5 x 35.5 750 x 2020 x 902	1	6	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	552 lb / 251 kg
<b>HPR125</b> Horizon Series	2° to 10°C	1	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 78.75 x 35.5 750 x 2001 x 902	1	6	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	549 lb / 250 kg
<b>Double Door</b>										
<b>iLR245</b> i.Series	2° to 10°C	2	44.9 / 1271	55 x 58.25 x 24.25 1397 x 1480 x 616	59.25 x 79.5 x 29.5 1505 x 2020 x 750	8	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	702 lb / 319 kg
<b>HLR245</b> Horizon Series	2° to 10°C	2	44.9 / 1271	55 x 58.25 x 24.25 1397 x 1480 x 616	59.25 x 78.75 x 29.5 1505 x 2001 x 750	8	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	701 lb / 318 kg
<b>iLR256</b> i.Series	2° to 10°C	2	56 / 1586	55 x 58.25 x 30.25 1397 x 1480 x 769	59.25 x 79.5 x 35.5 1505 x 2020 x 902	8	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	738 lb / 335 kg
<b>HLR256</b> Horizon Series	2° to 10°C	2	56 / 1586	55 x 58.25 x 30.25 1397 x 1480 x 769	59.25 x 78.75 x 35.5 1505 x 2001 x 902	8	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	728 lb / 331 kg
<b>iPR245</b> i.Series	2° to 10°C	2	44.9 / 1271	55 x 58.25 x 24.25 1397 x 1480 x 616	59.25 x 79.5 x 29.5 1505 x 2020 x 750	2	12	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	824 lb / 374 kg
<b>HPR245</b> Horizon Series	2° to 10°C	2	44.9 / 1271	55 x 58.25 x 24.25 1397 x 1480 x 616	59.25 x 78.75 x 29.5 1505 x 2001 x 750	2	12	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	823 lb / 374 kg
<b>iPR256</b> i.Series	2° to 10°C	2	56 / 1586	55 x 58.25 x 30.25 1397 x 1480 x 769	59.25 x 79.5 x 35.5 1505 x 2020 x 902	2	12	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	876 lb / 398 kg
<b>HPR256</b> Horizon Series	2° to 10°C	2	56 / 1586	55 x 58.25 x 30.25 1397 x 1480 x 769	59.25 x 78.75 x 35.5 1505 x 2001 x 902	2	12	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	866 lb / 393 kg

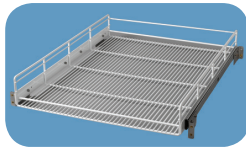
Specifications subject to change - Certified to applicable UL and CSA standards by a NRTL  
 Technical Data Sheets for all Laboratory and Pharmacy Refrigerators are available at [www.helmerinc.com](http://www.helmerinc.com)  
 Published interior volumes are nominal; usable cu ft (liters) capacity may be offset by protrusions into cabinet.  
 \* Does not include door handle, electrical panel, and evaporation tray.



## Custom Storage Options

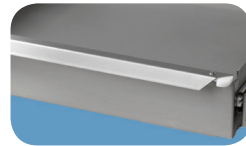
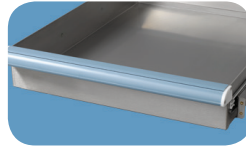
### Roll Out Baskets

Epoxy coated wire baskets are 4" (102mm) high and adjustable in 1" (26mm) increments. Maximum load 100 lb (46 kg) per basket.



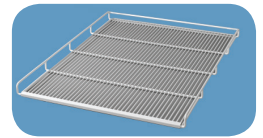
### Solid Stainless Steel Drawer with Hardware

Pull out drawers are 4" (102mm) high and adjustable in 1" (26mm) increments. Maximum load 100 lb (46 kg) per drawer. i.Series and Horizon Series available.



### Full-Size Shelf with Hardware

Epoxy coated wire shelves are adjustable in 1" (26mm) increments. Maximum load 100 lb (46 kg) per shelf.

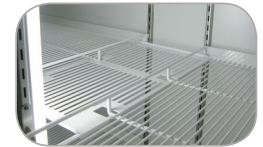


### Half-Size Shelf with Hardware

Epoxy coated wire shelves are adjustable in 1" (26mm) increments. Maximum load 30 lb (14 kg) per shelf. (20-56 cu ft / 572-1586 liters only)

### Bridge Shelf

Spans the space between two shelves in a double door refrigerator offering over 13% more storage area per shelf.

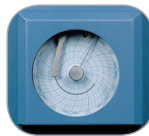


## Cabinet Options



### Access Ports

A second side-wall access port can be factory installed, 1.75" (45mm). Custom access ports are available.



### Temperature Chart Recorder

4" (102mm), 7-day inkless chart recorder. Includes battery backup and a supply of 52 charts. Factory installed



### Vapor-Proof Duplex Outlet

Duplex outlet power is independent from refrigerator power cord. Limit 1 per refrigerator. (115V only)

### Left-Hinged Single Door

Factory installed

### Heated Glass Door

Removes fogging and condensation in humid environments

### Solid Door

Ideal for storage of light-sensitive products

### Stainless Steel Interior

Specify when ordering

### Chromatography Kit

Factory installed on Laboratory Refrigerators. Includes pole mast, vapor-proof duplex outlet, four half shelves, and a second sidewall access port. (Not available for 11 cu ft models) (115V only)

## Accessories

### Leveling Feet

Field-installable kit. Can be installed without tipping unit.

### Storage Trays

Simplify and organize your storage needs. Each tray comes with dividers and rails so that individual storage areas can be customized. Great for storage of medication and vaccines.

### Chart Recorder Paper

4" (102mm) diameter, -5°C to +20°C, package of 52

### i.C<sup>3</sup>® Screen Protectors

Package of 3 clear screen protectors for use on i.C<sup>3</sup> User Interface

### USB Flashdrive

Used to download and upload information from/to the i.C<sup>3</sup>

### Remote Lock Adapter Kit

Factory or field installation. Compatible with automated medication dispensing systems.

### Remote Alarms (RA1 and RA4)

Extends existing alarms to remote locations within the facility. The RA1 offers monitoring of one device or zone and the RA4 provides monitoring of up to four devices or zones. Operational up to 3000 ft / 915m away (wiring not included).

### Floor Bracket Kit

Secures refrigerator to the building floor. The unit has factory threaded mounting holes. Heavy-gauge, powder coated steel floor mounting brackets and cabinet anchor hardware are provided. Customer to provide floor anchor hardware and onsite assembly.

### Temperature Validation

Package certifies the temperature performance of the refrigerator. This option must be ordered at the time the unit is purchased. Contact Helmer for additional details.

### Certificate of Calibration

Certifies that monitor was calibrated with NIST traceable thermometer before it left Helmer facility.

## Access Control

### i.Series®

#### i.D™ Integrated Electronic Access Control via

#### i.C³® User Interface



Optional Access Control offers secure access to a refrigerator or freezer. An

electronic lock is integrated into the unit and controlled by PIN entry.

- Up to 100 User ID's can be set up directly from the i.C³ and programmed with an individual access PIN
- The Access Control display can be set as an alternative Home Screen
- Key override

The Access Control log provides an audit trail of all refrigerator or freezer entries and includes the User ID, Date, Time, Duration and Method of Entry. This log can be downloaded and saved.

### Horizon Series™

#### Integrated Access Control via Keypad



The optional Horizon Access Control keypad provides fail-secure digital keypad access. A lock is integrated into the unit and unlocked by entering a user code on the integrated keypad.



- Up to 100 User Codes can be entered into the keypad.
- Key override

## Warranty

### i.Series® / Rel.i™ Plus

7 years compressor / 2 years parts / 1 year labor at Helmer

### Horizon Series™ / Rel.i™

5 years compressor / 2 years parts / 1 year labor at Helmer

Warranties applicable in the U.S. and Canada.

For international warranty information, contact your local distributor.

## Also Available

### Undercounter Refrigerators



i.Series and Horizon Series Laboratory Undercounter Refrigerators feature high-quality craftsmanship, secure monitoring, and easy access for cleaning and maintenance.

Please refer to our Undercounter Refrigerator literature or [www.helmerinc.com](http://www.helmerinc.com) for more information.

### Pass-Thru Refrigerators



i.Series and Horizon Series Pharmacy Pass-Thru Refrigerators feature superior temperature uniformity, advanced monitoring, and convenient operation.

Please refer to our Pass-Thru Refrigerator literature or [www.helmerinc.com](http://www.helmerinc.com) for more information.

