Refrigerators

Laboratory & Pharmacy

i.Series®
Horizon Series™

⊕ Helmer®

Laboratory & Pharmacy Refrigerators

Precisely executed.   Sharply designed.

Helmer has provided high-quality laboratory equipment and refrigerated products for over 30 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 True Blue protection.

We're not like everyone else, we're **Distinctly Helmer**.

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 +2ºC to +10ºC

· 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$^3_{TM}$ 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 5 cu ft (142 liters) to 58 cu ft (1642 liters)

· 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^3)

i.Series® and Horizon Series™

Helmer has two distinct refrigerator lines. The i.Series offers many unique features not found on other refrigerator models. The i.C³ 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 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.

· Upright, Undercounter, and Pass-Thru models

· Capacity from 5 cf to 58 cf (142 l - 1642 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)

Undercounter Models

· Single door with 2 shelves

· Door-mounted controls

· Front ventilation

Pass-Thru Models

· Double door with 6 two-way drawers and 6 shelves

· Single door with 3 two-way drawers and 3 shelves

· Door-mounted, eye-level controls (i.Series)

Upright Refrigerators

Temperature Control and Monitoring

i.Series®

· i.C^3, 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 ºC or ºF

Horizon Series™

· Digital microprocessor temperature controller with a built-in alarm/monitor factory set to 4ºC

· 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 R134A 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

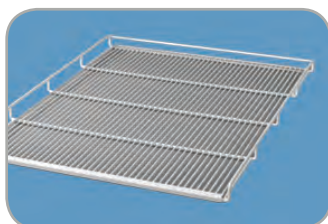· Low humidity levels with reduced condensation

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

· Dual, 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^3)

· Recessed floor for easy clean-up

· Hospital grade plug and cord

i.C³™
Monitor · Acknowledge · Download
Exclusively on i.Series® Models

i.Series refrigerators are monitored with Helmer's exclusive i.C³ user interface. The i.C³ 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.C³ 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 is currently available. It offers secure access to the unit via PIN entry on the i.C³ 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™
Exclusive i.C³™ User Interface	**Microprocessor-based controller with alarm/monitor**
· 7" (177mm) full-color, door-mounted touchscreen	· LED digital display, top bezel mounted
· Automatic high/low alarm testing (Peltier based)	· Manual alarm test
· USB ports (2) for download/upload/upgrade	
· RJ45 hub	
· Optional RS232 data port	
· Dry contact alarm connection	· Dry contact alarm connection
· Password protected settings	
· Dual alarm probes*	· Single alarm probe
· Digital display of upper and lower chamber temperatures*	· LED display of chamber temperature
· Event log displays date, time, and temperature data	
· Compressor log displays compressor temperature performance	
· Interactive temperature graph	
· Digital calibration	· Digital calibration
· Rechargeable battery backup	· Battery backup
· Date and time display	
· Alarm mute with adjustable ring-back interval	· Alarm mute with 5-minute ring-back interval
· Adjustable alarm volume	· Alarm silence with key switch
· Four alarm tones	
· High and low temperature alarms	· High and low temperature alarms
· Door ajar alarm	· Door ajar alarm
· Power failure alarm	· Power failure alarm
· Condenser temperature alarm	

* 11 cu ft (326 liter) models: single alarm probe and upper temperature display only

Specifications

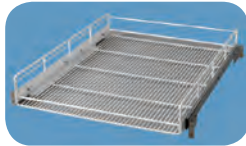| Model/Series	Operating Range	Doors	Volume (cu ft /liter)	Interior Dimensions (w x h x d) (in/mm)	Exterior Dimensions (w x h x d) (in/mm)	Shelves	Baskets	Drawers	Compressor	Electrical	Net Weight
Undercounter											
iLR105 i.Series	2º to 10ºC	1	5 / 142	19.5 x 19.75 x 22 496 x 502 x 559	24 x 33.5 x 26.75 610 x 851 x 680	2	0	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 5.0FLA 230V 50/60Hz 4.0/3.25FLA	195 lb / 89 kg
HLR105 Horizon Series	2º to 10ºC	1	5 / 142	19.5 x 19.75 x 22 496 x 502 x 559	24 x 33.5 x 26.75 610 x 851 x 680	2	0	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 5.0FLA 230V 50/60Hz 4.0/3.25FLA	189 lb / 86 kg
SLR105 Scientific Series	2º to 10ºC	1	5 / 142	19.5 x 19.75 x 22 496 x 502 x 559	24 x 33.5 x 26.75 610 x 851 x 680	2	0	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 5.0FLA 230V 50/60Hz 4.0/3.25FLA	165 lb / 75 kg
Single Door											
iLR111 i.Series	2º to 10ºC	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	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.0FLA 230V 50/60Hz 3.5FLA	322 lb / 147 kg
HLR111 Horizon Series	2º to 10ºC	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	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.0FLA 230V 50/60Hz 3.5FLA	315 lb / 143 kg
iLR120 i.Series	2º to 10ºC	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	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	473 lb / 215 kg
HLR120 Horizon Series	2º to 10ºC	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	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	470 lb / 214 kg
iLR125 i.Series	2º to 10ºC	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	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	484 lb / 220 kg
HLR125 Horizon Series	2º to 10ºC	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	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	481 lb / 219 kg
iPR111 i.Series	2º to 10ºC	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	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.0FLA 230V 50/60Hz 3.5FLA	357 lb / 162 kg
HPR111 Horizon Series	2º to 10ºC	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	0	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.0FLA 230V 50/60Hz 3.5FLA	350 lb / 159 kg
iPR120 i.Series	2º to 10ºC	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	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	525 lb / 239 kg
HPR120 Horizon Series	2º to 10ºC	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	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	522 lb / 237 kg
iPR125 i.Series	2º to 10ºC	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	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	552 lb / 251 kg
HPR125 Horizon Series	2º to 10ºC	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	0	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 7.5FLA 230V 50/60Hz 4.2FLA	549 lb / 250 kg
Double Door											
iLR245 i.Series	2º to 10ºC	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	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	702 lb / 319 kg
HLR245 Horizon Series	2º to 10ºC	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	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	701 lb / 318 kg
iLR256 i.Series	2º to 10ºC	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	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	738 lb / 335 kg
HLR256 Horizon Series	2º to 10ºC	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	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	728 lb / 331 kg
iPR245 i.Series	2º to 10ºC	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	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	824 lb / 374 kg
HPR245 Horizon Series	2º to 10ºC	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	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	823 lb / 374 kg
iPR256 i.Series	2º to 10ºC	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	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	876 lb / 398 kg
HPR256 Horizon Series	2º to 10ºC	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	0	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 11.5FLA 230V 50/60Hz 6.0FLA	866 lb / 393 kg
Pass-Thru											
iPR225 i.Series	2º to 10ºC	2	26.5 / 750	24.75 x 58.25 x 32 629 x 1480 x 813	29.5 x 80 x 36 750 x 2032 x 915	3	0	3	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 9.25 FLA	534 lb / 243 kg
HPR225 Horizon Series	2º to 10ºC	2	26.5 / 750	24.75 x 58.25 x 32 629 x 1480 x 813	29.5 x 80 x 36 750 x 2032 x 915	3	0	3	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 9.25 FLA	523 lb / 238 kg
iPR456 i.Series	2º to 10ºC	4	58 / 1642	55 x 58.25 x 32 1397 x 1480 x 813	59.25 x 80 x 36 1505 x 2032 x 915	6	0	6	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 13.25 FLA	797 lb / 362 kg
HPR456 Horizon Series	2º to 10ºC	4	58 / 1642	55 x 58.25 x 32 1397 x 1480 x 813	59.25 x 80 x 36 1505 x 2032 x 915	6	0	6	.5 HP Air-Cooled R134A Non-CFC	115V 60Hz 13.25 FLA	786 lb / 357 kg

Specifications subject to change · Certified to applicable UL and CSA standards by a NRTL
Product Specification Sheets for all Laboratory and Pharmacy Refrigerators are available at www.helmerinc.com
Published interior volumes are nominal; usable cu ft (liters) capacity may be offset by protrusions into cabinet.

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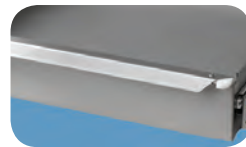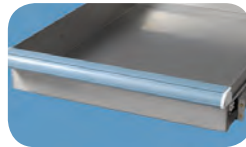
Custom Storage Options

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.
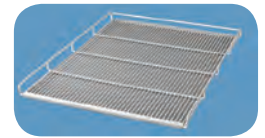

Solid Stainless Steel Drawer with Hardware
Pull out drawers are 4" (102mm) high and adjustable in 1" (26mm) increments. Maximum load 100 lb (46 kg) per drawer. i.Series and Horizon Series available

Full-Size Shelf with Hardware
Epoxy coated wire shelves are adjustable in 1" (26mm) increments. Maximum load 100 lb (46kg) per shelf.
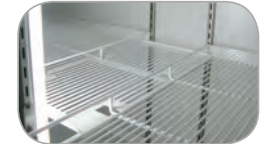

Half-Size Shelf with Hardware
Epoxy coated wire shelves are adjustable in 1" (26mm) increments. Maximum load 30 lb (14 kg) per shelf. (20-56 cu ft / 572-1586 liters only)

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

Options & Accessories

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

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

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

Vapor-Proof Duplex Outlet
Duplex outlet power is independent from refrierator power cord. Limit 1 per refrigerator. (115 V only)

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

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.

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

i.C³ Screen Protectors
Package of 3 clear screen protectors for use on i.C³ User Interface

USB Flashdrive
Used to download and upload information from/to the i.C³
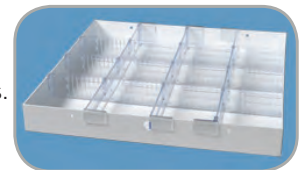

Floor and Wall Bracket Kit
Secures refrigerator to the building floor and/or wall. The unit has factory threaded mounting holes. Heavy-gauge, powder coated steel floor mounting brackets and cabinet anchor hardware are provided. Customer to provide floor and/or wall anchor hardware and onsite assembly.

Remote Lock Adapter Kit
Factory or field installation. Compatible with automated medication dispensing systems.

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.

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)

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)

Access Control

i.Series®

i.D™ Integrated Electronic Access Control via i.C³

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.

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 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 for more information.