Innovation can be beautiful.

Laboratory & Pharmacy Refrigerators

i.Series®
Horizon Series™

Distinctly **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. Often imitated, never duplicated, we're not like everyone else, we're . . . Distinctly Helmer.

Helmer Refrigerators Deliver

High-Quality Craftsmanship that Stands Up to the Performance Standards Required by the Medical/ Scientific Industry

· Superior chamber temperature uniformity and quick recovery with heavy-duty, forced-air refrigeration system
· Operating temperature range from +2ºC to +10ºC
· Items are stored in a drier environment resulting in reduced condensation on boxes and other containers
· Bacteria-resistant powder coated interior and exterior for added security
· Sure-Seal self-closing door with magnetic closure eliminates broken door latches
· Custom storage capabilities with optional roll out baskets, full or half-size shelves, and stainless steel drawers may be selected in any combination to provide maximum storage versatility

Secure Monitoring for a Safe Storage Environment

· Digital temperature display (i.Center® Monitoring System included on i.Series models)
· Password protected configuration (i.Series only)
· Key lock

Designed for Convenience and Performance

· Single and double door models from 5 cu ft (142 liters) to 56 cu ft (1586 liters)
· Position flush with a countertop, cabinet, or other equipment with no additional clearance required
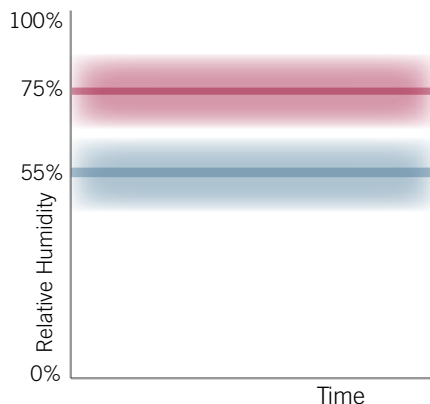· Recessed floor contains spills for easy clean-up

Reduced Humidity Levels Create Dry Storage Environment

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

Standard Scientific Refrigerator
75% Average Relative Humidity with a range of 70-80% at 4°C

Humidity Reduced Helmer Refrigerator
55% Average Relative Humidity with a range of 50-60% at 4°C

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.Center® Monitoring System anchors this top-of-the-line series. Password protection, automatic high/low alarm testing, event log of alarm conditions, LCD viewscreen, and a 7 year compressor warranty provide advanced monitoring for the secure storage of valuable products. Visual and audible alarms keep you informed of the operating condition of your unit. In addition, the digital microprocessor temperature controller is independent from the alarm/monitoring system and provides redundancy.

Already have a monitoring system? The Horizon Series™ offers a temperature controller with an alarm package. 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™ lines offer high quality construction and attention to detail throughout.

i.Series Display

Horizon Series Display

Single Door Upright Models

Horizon Series
11 cu ft (Lab)

i.Series
11 cu ft (Lab)

i.Series
11 cu ft (Pharmacy)

Horizon Series
11 cu ft (Pharmacy)

i.Series
20 and 25 cu ft
(Lab)

Horizon Series
20 and 25 cu ft
(Lab)

i.Series
20 and 25 cu ft
(Pharmacy)

Horizon Series
20 and 25 cu ft
(Pharmacy)

Double Door Upright Models

Horizon Series
45 and 56 cu ft
(Lab)

i.Series
45 and 56 cu ft
(Lab)

Horizon Series
45 and 56 cu ft
(Pharmacy)

i.Series
45 and 56 cu ft
(Pharmacy)

Laboratory and Pharmacy Refrigerators

Laboratory and Pharmacy Refrigerators are offered in both the i.Series® and Horizon Series™ lines. i.Series Refrigerators feature the i.Center® Integrated Monitoring System. Horizon Series Refrigerators offer a microprocessor temperature controller and alarm/monitoring system. Double and single door units are available from 11 cu ft through 56 cu ft (326 through 1586 liters).

Standard Features

Temperature Control and Monitoring

i.Series
· i.Center Monitoring System, described on page 5
· Two stainless steel monitoring probes in product simulation bottles (single probe in iLR111 and iPR111)

Horizon Series
· Microprocessor temperature controller with built-in alarm/monitor, described on page 5
· Single, stainless steel monitoring probe in product simulation bottle

i.Series and Horizon Series
· Digital microprocessor temperature controller factory set to 4°C with the following features:
  - Temperature probe mounted in the chamber
  - Digital offset adjustment for calibration

Shelves

· Standard on laboratory refrigerators
· Epoxy coated wire shelves
· Stainless steel shelf standards
· Side and rear guards prevent items from falling off the shelf
· Available in full and half-size

Drawers

i.Series
· Sure-Grip coordinated drawer handles with built-in ledge for labels

i.Series and Horizon Series
· Solid stainless steel pull out drawers
· Standard on pharmacy refrigerators
· Drawers are 4" (102mm) high
· Durable, liquid-tight construction for containment of spills
· Stainless steel drawer standards guard against rust and corrosion
· Easy access to inventory with fully extendable drawer slides
· Scratch-Guard edge protectors keep glass doors from being scratched by drawers

Refrigeration System

· Heavy-duty, forced-air refrigeration system
· Non-CFC, commercially available refrigerant
· Automatic condensate evaporator
· Internal evaporator fan(s) shut off during door openings

Cabinet Construction

i.Series
· Ergonomic Sure-Grip door handle(s) are bacteria-resistant powder-coated and padded for comfort

i.Series and Horizon Series
· Interior, exterior, and door handle(s) are galvannealed steel with bacteria-resistant powder coating
· Superior engineered frame for maximum rigidity
· Dual-Pane glass door(s)
· Innovative self-closing Sure-Seal door system
· Standard key lock
· Interior lighting with control panel mounted switch
· Minimum of 2" (51mm) non-CFC foamed urethane insulation
· Dual, swivel locking casters
· One side-wall access port with interior and exterior plugs. Port diameter is 1.75" (45mm)
· Recessed floor

i.Series drawer with Scratch-Guard edge protection

Horizon Series drawer with Scratch-Guard edge protection

Dual, swivel locking casters

Key lock for securing inventory

i.Series® / Horizon Series™ Comparison

i.Center®

i.Series refrigerators are monitored with Helmer's exclusive i.Center technology. The i.Center constantly monitors the chamber temperature and critical refrigerator functions, safeguarding the products inside and providing valuable information to the user. A large, digital viewscreen provides easy access to all i.Center functions and features.

Controller / Alarm Monitor

The Horizon Series microprocessor temperature controller with alarm/monitor provides a controlled, stable temperature environment for products stored in your refrigerator. Audible and visual high/low temperature alarms add security. The LED display is easy to read and settings are adjustable.

i.Series®	Horizon Series™
Alarm/Monitor	**Alarm/Monitor**
i.Center® advanced alarm / monitor	**Features a microprocessor-based controller with alarm/monitor**
· i.Center LCD viewscreen · High and low temperature alarms · Door ajar alarm · Power failure alarm · Condenser termperature alarm · No battery alarm · Low battery alert** · Automatic high/low alarm testing (Peltier based) · Password protected configuration · Dual temperature probes* · Digital display of upper and lower chamber temperatures* · Event log records door openings and alarm conditions with date and time · LCD 24-hour temperature graph · Dry contact alarm connection · Digital calibration · Flash memory upgradable · Battery backup with continuous auto battery check · Date and time display · Alarm mute with adjustable ring-back interval · Adjustable alarm volume · Four alarm options: single, double, triple, and continuous beep · Optional RS232 data port	· LED digital display · High and low temperature alarms · Door ajar alarm · Power failure alarm · Manual alarm test · Single temperature probe · LED display of chamber temperature · Dry contact alarm connection · Digital calibration · Battery backup · Alarm mute with 5 minute ring-back interval · Alarm silence with key switch
Cabinet	**Cabinet**
· Powder-coated interior & exterior · Cushioned Sure-Grip door handle(s) · Contoured bezel	· Powder-coated interior & exterior · Standard door handle(s) · Powder-coated metal bezel

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

Laboratory and Pharmacy Refrigerator 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	Drawers	Compressor	Electrical	Net Weight
iLR105 (Lab/Pharm) i.Series	2° to 10°C	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	.25 HP Air-Cooled R134A Non-CFC	115 V 60 Hz 5 FLA 230 V 50 Hz 4 FLA 230 V 60 Hz 3.25 FLA	188 lb / 86 kg
HLR105 (Lab/Pharm) Horizon Series	2° to 10°C	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	.25 HP Air-Cooled R134A Non-CFC	115 V 60 Hz 5 FLA 230 V 50 Hz 4 FLA 230 V 60 Hz 3.25 FLA	188 lb / 86 kg
SLR105 (Lab/Pharm) Scientific Series	2° to 10°C	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	.25 HP Air-Cooled R134A Non-CFC	115 V 60 Hz 5 FLA 230 V 50 Hz 4 FLA 230 V 60 Hz 3.25 FLA	165 lb / 75 kg
iLR111 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	115 V 60Hz 7 FLA 230 V 50Hz 3.5 FLA 230V 60Hz 3 FLA	320 lb / 145 kg
HLR111 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	115 V 60Hz 7 FLA 230V 50Hz 3.5 FLA 230V 60Hz 3 FLA	320 lb / 145 kg
iLR120 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 79.75 x 29.5 750 x 2026 x 750	4	0	.33 HP Air-Cooled R134A Non-CFC	115 V 60Hz 7.5 FLA 230V 50/60Hz 4 FLA	465 lb / 211 kg
HLR120 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	115 V 60Hz 7.5 FLA 230V 50/60Hz 4 FLA	465 lb / 211 kg
iLR125 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 79.75 x 35.5 750 x 2026 x 902	4	0	.33 HP Air-Cooled R134A Non-CFC	115 V 60Hz 7.5 FLA 230V 50/60Hz 4 FLA	476 lb / 216 kg
HLR125 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	115 V 60Hz 7.5 FLA 230V 50/60Hz 4 FLA	476 lb / 216 kg
iLR245 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 79.75 x 29.5 1505 x 2026 x 750	8	0	.5 HP Air-Cooled R134A Non-CFC	115 V 60Hz 11.5 FLA 230V 50/60Hz 6 FLA	692 lb / 314 kg
HLR245 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	115 V 60Hz 11.5 FLA 230V 50/60Hz 6 FLA	692 lb / 314 kg
iLR256 i.Series	2° to 10°C	2	56 / 1586	55 x 58.25 x 30.25 1397 x 1480 x 769	59.25 x 79.75 x 35.5 1505 x 2026 x 902	8	0	.5 HP Air-Cooled R134A Non-CFC	115 V 60Hz 11.5 FLA 230V 50/60Hz 6 FLA	754 lb / 342 kg
HLR256 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	115 V 60Hz 11.5 FLA 230V 50/60Hz 6 FLA	754 lb / 342 kg
iPR111 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	0	5	.25 HP Air-Cooled R134A Non-CFC	115 V 60Hz 7 FLA 230 V 50Hz 3.5 FLA 230V 60Hz 3 FLA	340 lb / 154 kg
HPR111 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	0	5	.25 HP Air-Cooled R134A Non-CFC	115 V 60Hz 7 FLA 230 V 50Hz 3.5 FLA 230V 60Hz 3 FLA	340 lb / 154 kg
iPR120 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 79.75 x 29.5 750 x 2026 x 750	0	6	.33 HP Air-Cooled R134A Non-CFC	115 V 60Hz 7.5 FLA 230V 50/60Hz 4 FLA	510 lb / 231 kg
HPR120 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	0	6	.33 HP Air-Cooled R134A Non-CFC	115 V 60Hz 7.5 FLA 230V 50/60Hz 4 FLA	510 lb / 231 kg
iPR125 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 79.75 x 35.5 750 x 2026 x 902	0	6	.33 HP Air-Cooled R134A Non-CFC	115 V 60Hz 7.5 FLA 230V 50/60Hz 4 FLA	535 lb / 243 kg
HPR125 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	0	6	.33 HP Air-Cooled R134A Non-CFC	115 V 60Hz 7.5 FLA 230V 50/60Hz 4 FLA	535 lb / 243 kg
iPR225 (Pass-Thru) i.Series	2° to 10°C	2	26.5 / 750	24.75 x 58.25 x 32 629 x 1480 x 813	29 x 80 x 36 737 x 2032 x 915	3	3	.33 HP Air-Cooled R134A Non-CFC	115 V 60Hz 8.5 FLA	530 lb / 241 kg
HPR225 (Pass-Thru) Horizon Series	2° to 10°C	2	26.5 / 750	24.75 x 58.25 x 32 629 x 1480 x 813	29 x 80 x 36 737 x 2032 x 915	3	3	.33 HP Air-Cooled R134A Non-CFC	115 V 60Hz 8.5 FLA	525 lb / 239 kg
iPR245 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 79.75 x 29.5 1505 x 2026 x 750	0	12	.5 HP Air-Cooled R134A Non-CFC	115 V 60Hz 11.5 FLA 230V 50/60Hz 6 FLA	800 lb / 363 kg
HPR245 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	0	12	.5 HP Air-Cooled R134A Non-CFC	115 V 60Hz 11.5 FLA 230V 50/60Hz 6 FLA	800 lb / 363 kg
iPR256 i.Series	2° to 10°C	2	56 / 1586	55 x 58.25 x 30.25 1397 x 1480 x 769	59.25 x 79.75 x 35.5 1505 x 2026 x 902	0	12	.5 HP Air-Cooled R134A Non-CFC	115 V 60Hz 11.5 FLA 230V 50/60Hz 6 FLA	880 lb / 400 kg
HPR256 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	0	12	.5 HP Air-Cooled R134A Non-CFC	115 V 60Hz 11.5 FLA 230V 50/60Hz 6 FLA	880 lb / 400 kg
iPR456 (Pass-Thru) i.Series	2° to 10°C	4	58 / 1642	55 x 58.25 x 32 1397 x 1480 x 813	59 x 80 x 36 1499 x 2032 x 915	6	6	.5 HP Air-Cooled R134A Non-CFC	115 V 60Hz 13.5 FLA	795 lb / 361 kg
HPR456 (Pass-Thru) Horizon Series	2° to 10°C	4	58 / 1642	55 x 58.25 x 32 1397 x 1480 x 813	59 x 80 x 36 1499 x 2032 x 915	6	6	.5 HP Air-Cooled R134A Non-CFC	115 V 60Hz 13.5 FLA	790 lb / 359 kg

* Add 2" (51mm) to depth for Undercounter models for placement. Add 3" (77mm) to depth for upright models.
Add 4" (102mm) for Pass-Thru and 11 cu ft models.
Specifications subject to change.   Certified to applicable UL and CSA standards by a NRTL.

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BSI
ISO13485:2003
FM 536296

Custom Storage Options

For maximum versatility, Helmer refrigerators can be customized with any combination of roll out baskets, drawers, shelves or half shelves.

Roll Out Basket with Hardware

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

Full Size Shelf with Hardware

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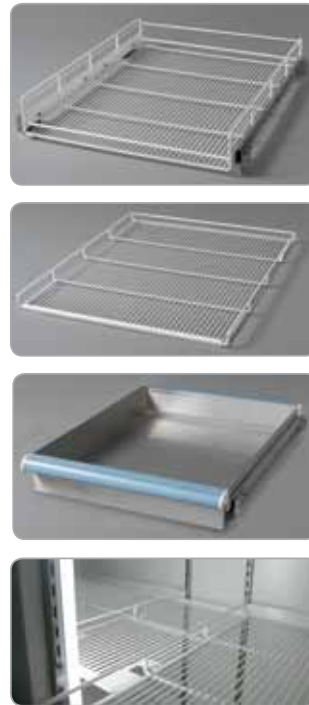
Half Size Shelf with Hardware

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)

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.

Bridge Shelf

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

Options & Accessories

Heated Glass Door

Removes fogging and condensation in humid environments

Solid Door

Ideal for storage of light-sensitive products

Left-Hinged Single Door

Available for single door refrigerators

Temperature Validation

Package certifies the temperature performance of the refrigerator. This option must be ordered at the time the unit is purchased.

Certificate of Calibration

Certificate for all instrumentation used to test and calibrate the unit. This option must be ordered at the time the unit is purchased.

Stainless Steel Interior

Specify when ordering

Access Ports

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

Vapor-Proof Duplex Outlet

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

Temperature Chart Recorder

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

Chart Recorder Paper

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

Remote Alarms (RA1 and RA4)

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

Storage Trays

Refrigerator trays from Helmer simplify and organize your storage needs. Each tray comes with dividers and rails so that individual storage areas can be customized. Several sizes available

Floor and Wall Bracket kit

Secures unit 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.

Chromatography Kit

Factory installed on single and double door Laboratory Refrigerator models. 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)

Undercounter Refrigerators

i.Series®, Horizon Series™, and Scientific Series™ Undercounter Laboratory / Pharmacy Refrigerators feature High-Quality Craftsmanship, Secure Monitoring, and Easy Access for Cleaning and Maintenance.

· Undercounter, free-standing, or stacked use for maximum versatility
· Field-reversible, self-closing door
· Bacteria-resistant powder coated exterior and interior
· Many options available

Please refer to our Undercounter Refrigerator literature or www.helmerinc.com for more information.

Pass-Thru Refrigerators

i.Series® and Horizon Series™ Pass-Thru Pharmacy / Laboratory Refrigerators feature Superior Temperature Uniformity, Advanced Monitoring, and Convenient Operation.

· Bacteria-resistant powder coating
· Self-closing doors and magnetic gaskets
· Custom storage options
· Storage trays and dividers available

Please refer to our Pass-Thru Refrigerator literature or www.helmerinc.com for more information.

Warranty

i.Series / Rel.i™ Plus
7 years compressor / 2 years parts / 1 year labor

Horizon Series / Rel.i™
5 years compressor / 2 years parts / 1 year labor

Warranties applicable in the U.S. and Canada.
For International warranty information, contact your local distributor.

Distinctly **HELMER**