

Innovation can be beautiful.

# Undercounter Refrigerators & Freezers

Blood Bank  
Laboratory / Pharmacy



Distinctly



Precisely executed.  
Sharply designed.

# Undercounter Refrigerators & Freezers

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.

**Laboratory · Blood Bank · Pharmacy · Health Department · Patient Care**

## Helmer Refrigerators & Freezers 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, air-cooled, forced air refrigeration system
- Operating temperature range from +2° to +10°C (refrigerators)
- Operating temperature range from -15° to -30°C (freezers)
- Programmable defrost (freezers)
- Bacteria-resistant powder coated exterior and interior
- Self-closing door with magnetic latch
- Undercounter, free-standing, or stacked
- Fan shuts off during door openings for optimal temperature uniformity and quick recovery
- Epoxy-coated wire shelves (lab/pharm models - i.Series® / Horizon Series™)
- Metal shelves (lab/pharm models - Scientific Series™)
- Solid, stainless steel drawers (blood bank and plasma models)

### Secure Monitoring for a Safe Storage Environment

- Digital temperature display (i.Center® Monitoring System included on i.Series® models)
- Key lock
- Password protected configuration (i.Series® models)
- Chart recorder (blood bank models)

### Easy Access Design for Cleaning and Maintenance

- Field-reversible door (swing contained within width dimension)
- Front ventilation eliminates the need for top or side clearance
- Drop-down access panel conceals power switch, battery, and alarm\*
- Front access slide-out tray contains electronic components\*
- Side access panel provides easy access to compressor
- Leveling feet



## i.Series®, Horizon Series™, and Scientific Series™

Helmer offers three distinct series for undercounter refrigerators and two series for undercounter freezers. All lines offer high quality construction and attention to detail throughout.

The i.Series® line is available for both refrigerators and freezers and offers many unique features not found on other undercounter models. The i.Center® Monitoring System anchors this top-of-the-line series. Secure access, automatic high/low alarm testing, event log of alarm conditions, defrost logging, and LCD viewscreen 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.

The Horizon Series™ line is also available for refrigerators and freezers and offers a door mounted 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.

The Scientific Series™ line is a basic undercounter refrigerator that provides superior temperature uniformity for users with external monitoring systems or medication dispensing locks that include temperature monitoring.

## Undercounter Refrigerator Models

### Laboratory / Pharmacy



i.Series

Horizon Series

Scientific Series

### Blood Bank



i.Series

Horizon Series

## Undercounter Freezer Models

### Laboratory



i.Series

Horizon Series

### Plasma



i.Series

Horizon Series

## Undercounter Refrigerators

Undercounter refrigerators are offered in Laboratory/Pharmacy and Blood Bank Models. Choose between the i.Series®, Horizon Series™, and Scientific Series™ lines for optimal monitoring options. Laboratory/Pharmacy models feature 2 shelves and Blood Bank models feature 2 drawers.



Stainless steel option shown

### Standard Features

#### Cabinet Construction

- Bacteria-resistant, powder-coated interior & exterior
- Self-closing, field reversible door with magnetic latch
- Key lock
- Front ventilation
- Front and side access panels (i.Series® and Horizon Series™)
- Minimum of 2" (51mm) non-CFC foamed urethane insulation
- Leveling feet
- Recessed floor
- Rear access port
- All units stackable

#### Refrigeration System

- Heavy-duty, air-cooled refrigeration system
- Forced air circulation maintains chamber uniformity and provides quick recovery after door openings
- Non-CFC, commercially available refrigerant
- Automatic condensate evaporator
- Internal evaporator fan shuts off during door openings
- No defrost cycle needed

#### Laboratory / Pharmacy Models

- i.Series®, Horizon Series™, and Scientific Series™ models
- Reduced humidity levels
- Adjustable, epoxy-coated wire shelves\*
  - Stainless steel shelf standards
  - Side and rear guards prevent items from falling off
- Adjustable, perforated metal shelves\*\*

#### Blood Bank Models







- i.Series® and Horizon Series™ models
- Temperature uniformity of +/- 1°C
- Chart recorder
- Adjustable, solid, stainless steel drawers
  - Fully extendable and liquid-tight
  - Stainless steel drawer standards
  - Scratch-Guard edge protectors
- Meets AABB, ARC, and FDA standards for whole blood storage at 4°C



\* i.Series® / Horizon Series™

\*\* Scientific Series™

## Temperature Control and Monitoring

i.Series®	Horizon Series™	Scientific Series™
<b>Alarm/Monitor</b>  	<b>Alarm/Monitor</b>  	<b>Controller</b>  
<b>i.Center® advanced alarm/monitor constantly monitors the chamber temperature and critical refrigerator functions, safeguarding products and providing valuable information to the user.</b>	<b>Microprocessor-based temperature controller with alarm/monitor mounted in door. Provides a controlled, stable temperature environment for stored products.</b>	<b>Microprocessor-based temperature controller</b>
<ul style="list-style-type: none"> <li>· i.Center® LCD viewscreen</li> <li>· Automatic high/low alarm testing (Peltier based)</li> <li>· Password protected configuration</li> <li>· Single temperature probe</li> <li>· Digital display of upper chamber temperatures</li> <li>· Event log records door openings and alarm conditions with date and time</li> <li>· LCD 24-hour temperature graph</li> <li>· Dry contact alarm connection</li> <li>· Digital calibration</li> <li>· Flash memory upgradable</li> <li>· Battery backup with continuous auto battery check</li> <li>· Date and time display</li> <li>· Alarm mute with adjustable ring-back interval</li> <li>· Adjustable alarm volume</li> <li>· Four alarm options: single, double, triple beep, continuous</li> <li>· Optional RS232 data port</li> <li>· High and low temperature alarms</li> <li>· Door ajar alarm</li> <li>· Power failure alarm</li> <li>· Condenser temperature alarm</li> <li>· No battery alarm</li> <li>· Low battery alert*</li> <li>· Change chart paper alert*</li> </ul>	<ul style="list-style-type: none"> <li>· LED digital display</li> <li>· Manual alarm test</li> <li>· Single temperature probe</li> <li>· LED display of chamber temperature</li> <li>· Dry contact alarm connection</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>	<ul style="list-style-type: none"> <li>· LED digital display</li> <li>· LED display of chamber temperature</li> </ul>

\* Visual only

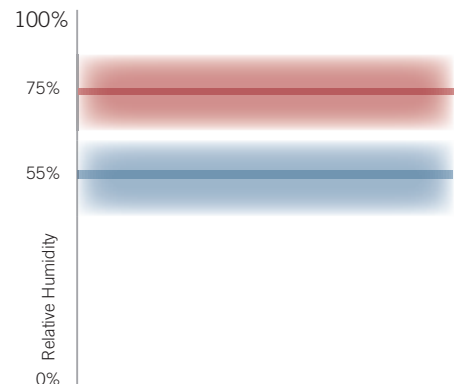
## Reduced Humidity Levels Create Dry Storage Environment

Helmer has developed a proprietary approach to refrigeration for Laboratory / Pharmacy Refrigerators that has reduced the humidity level in the cabinet from 75% as seen in most scientific refrigerators to 55% in Helmer refrigerators. The result of less humidity is an improved storage environment reducing condensation and damp storage boxes for products such as reagents, medications, and vaccines.

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

Helmer Humidity Reduced Refrigerator

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



# Undercounter Freezers

Undercounter freezers (-20°C / -30°C) are offered in Laboratory and Plasma Models. Programmable defrost allows defrost cycles to be set during low use periods. They are available in both i.Series® and Horizon Series™ Lines. Laboratory/Pharmacy models feature 2 shelves and Plasma models feature 2 drawers.

## Standard Features

### Cabinet Construction

- Bacteria-resistant, powder-coated interior & exterior
- Self-closing, field-reversible door with magnetic latch
- Key lock
- Front ventilation
- Front and side access panels
- Minimum of 2" (51mm) non-CFC foamed urethane insulation
- Leveling feet
- Recessed floor
- Rear access port
- All units stackable
- Chart recorder (Plasma models)

### Refrigeration System

- Heavy-duty, air-cooled refrigeration system
- Non-CFC, commercially available refrigerant
- Automatic condensate evaporator
- Internal evaporator fan shuts off during door openings

### Temperature Control and Monitoring



Stacked refrigerator and freezer shown



### Storage

#### Laboratory Models

Epoxy-coated wire shelves

- Adjustable
- Stainless steel shelf standards
- Side and rear guards





#### Plasma Models

Solid, stainless steel drawers

- Adjustable
- Fully extendable and liquid-tight
- Stainless steel drawer slides and standards



i.Series®		Horizon Series™ 
<b>i.Center® advanced alarm/monitor</b>		<b>Door mounted controller with alarm/monitor</b>
<ul style="list-style-type: none"> <li>· i.Center LCD viewscreen</li> <li>· Automatic high alarm testing (Peltier based)</li> <li>· Password protected configuration</li> <li>· Single temperature probe</li> <li>· Digital display of upper chamber temperatures</li> <li>· Event log records door openings and alarm conditions with date and time</li> <li>· Defrost log records refrigeration system performance</li> <li>· Defrost icon alerts user that defrost cycle is in progress</li> <li>· LCD 24-hour temperature graph</li> <li>· Dry contact alarm connection</li> <li>· Digital calibration</li> <li>· Flash memory upgradable</li> <li>· Battery backup with continuous auto battery check</li> <li>· Date and time display</li> <li>· Alarm mute with adjustable ring-back interval</li> <li>· Adjustable alarm volume</li> <li>· Four alarm options: single, double, triple, and continuous beep</li> <li>· Optional RS232 data port</li> <li>· High temperature alarms</li> <li>· Door ajar alarm</li> <li>· Power failure alarm</li> <li>· Condenser temperature alarm</li> <li>· No battery alarm</li> <li>· Low battery alert*</li> <li>· Change chart paper alert*</li> </ul>	<ul style="list-style-type: none"> <li>· LED digital display</li> <li>· Manual alarm test</li> <li>· Single temperature probe</li> <li>· LED display of chamber temperature</li> <li>· Dry contact alarm connection</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 temperature alarms</li> <li>· Door ajar alarm</li> <li>· Power failure alarm</li> </ul>	

\* Visual only

# Options and Specifications

## Custom Storage Options

- Roll out baskets: epoxy-coated wire (Maximum 2)
- Combination storage
  - One shelf and one drawer
  - One shelf and one roll-out basket
  - One drawer and one roll-out basket



## Other Options

- Casters
- Stainless steel interior and/or exterior
- Glass door (refrigerators only)
- Interior LED light with on/off switch (refrigerators only)



## Specifications

### Refrigerators

Model/Series	Operating Range	Doors	Bag Capacity	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
<b>iB105</b> (Blood Bank) i.Series	2° to 10°C	1	66	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	0	2	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 5 FLA 230V 50Hz 4 FLA 230V 60Hz 3.25 FLA	200 lb / 91 kg
<b>iLR105</b> (Lab/Pharm) i.Series	2° to 10°C	1	n/a	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	115V 60Hz 5 FLA 230V 50Hz 4 FLA 230V 60Hz 3.25 FLA	188 lb / 86 kg
<b>HB105</b> (Blood Bank) Horizon Series	2° to 10°C	1	66	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	0	2	.25 HP Air-Cooled R134A Non-CFC	115V 60Hz 5 FLA 230V 50Hz 4 FLA 230V 60Hz 3.25 FLA	200 lb / 91 kg
<b>HLR105</b> (Lab/Pharm) Horizon Series	2° to 10°C	1	n/a	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	115V 60Hz 5 FLA 230V 50Hz 4 FLA 230V 60Hz 3.25 FLA	188 lb / 86 kg
<b>SLR105</b> (Lab/Pharm) Scientific Series	2° to 10°C	1	n/a	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	115V 60Hz 5 FLA 230V 50Hz 4 FLA 230V 60Hz 3.25 FLA	165 lb / 75 kg

### Freezers

Model/Series	Operating Range	Doors	Plasma Box Capacity	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
<b>iPF105</b> (Blood Bank) i.Series	-15° to -30°C	1	44	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	0	2	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 5.75 FLA 230V 50Hz 3.0 FLA	209 lb / 95 kg
<b>iLF105</b> (Lab/Pharm) i.Series	-15° to -30°C	1	n/a	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	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 5.75 FLA 230V 50Hz 3.0FLA	197 lb / 90 kg
<b>HPF105</b> (Blood Bank) Horizon Series	-15° to -30°C	1	44	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	0	2	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 5.75 FLA 230V 50Hz 3.0 FLA	209 lb / 95 kg
<b>HLF105</b> (Lab/Pharm) Horizon Series	-15° to -30°C	1	n/a	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	.33 HP Air-Cooled R134A Non-CFC	115V 60Hz 5.75 FLA 230V 50Hz 3.0FLA	197 lb / 90 kg

\* Add 1/2" (13mm) to height for leveling feet. Add 2" (51mm) to height for casters.

\*\* Capacity based on blood bag volume of 450 ml.

Meets AABB, ARC and FDA standards for blood storage

Specifications subject to change. Certified to applicable UL and CSA standards by a NRTL



## Accessories

### Temperature Chart Recorder (Refrigerators / TCR2 and Freezers / TCR3)

7-day, inkless. Includes battery backup and a supply of 52 charts



### Chart Recorder Paper

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

4" (102mm) diameter -50°C to 0°C, package of 52 (freezers)

### Stacking Kit

Hardware needed to stack 2 undercounter units

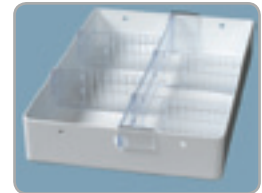


### Remote Lock Adapter Kit

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

### Floor and Wall Bracket Kit

Secures refrigerator to the building floor and/or wall



### Storage Trays

Refrigerator trays from Helmer simplify and organize your storage needs. Each tray comes with dividers and rails to customize individual storage areas.

### Drawer Dividers - Upright and Angled (refrigerators only)

Excellent for blood bags and automated medication dispensing systems.

Upright: Capacity 28 bags/drawer Angled: Capacity 24 bags/drawer



### Remote Alarms

Extends existing alarms to remote locations within the facility (i.Series® / Horizon Series™ models)

### Temperature Validation or Certificate of Calibration

Contact Helmer for information

## Warranty

### Refrigerators

#### i.Series® / Rel.i™ Plus

7 years compressor / 2 years parts / 1 year labor

#### Horizon Series™ and Scientific Series™ / Rel.i™

5 years compressor / 2 years parts / 1 year labor

### Freezer

#### i.Series® / Rel.i™

5 years compressor / 2 years parts / 1 year labor

#### Horizon Series™ / Rel.i™

3 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



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