

Innovation can be beautiful.

Freezers

Laboratory & Plasma

i.Series®
Horizon Series™



Distinctly

Freezers

Laboratory & Plasma

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 Freezers Deliver

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

- Heavy-duty, forced-air refrigeration system for superior chamber temperature uniformity and quick recovery
- Operating temperature range from -15°C to -30°C
- Program up to four daily defrost events to run during low use periods for greater efficiency
- Heavy-gauge stainless steel interior (plasma - i.Series® only)
- Bacteria-resistant powder coated interior and exterior for added security
- Sure-Seal self-closing door with magnetic closure eliminates broken door latches

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®)
- Chart Recorder (plasma models)

Designed for Convenience and Performance

- Single door models from 5 cu ft (142 liters) to 25.2 cu ft (714 liters)
- Position flush with a countertop, cabinet, or other equipment with no additional clearance required
- Recessed floor contains spills for easy clean-up



i.Series® and Horizon Series™ Lines

Helmer has two distinct -30°C freezer lines. Both the i.Series® and Horizon Series™ lines offer high quality construction and attention to detail throughout.

The i.Series® offers many unique features not found on other freezer models, including a 5 year compressor warranty. The i.Center® Monitoring System anchors this top-of-the-line series. Password protection, automatic high alarm testing, patented event log of alarm conditions and defrost cycles, and LCD viewscreen provide advanced monitoring for the secure storage of valuable products. Defrost cycles can be programmed for low use periods. Visual and audible alarms keep you informed of the operating condition of your unit.

Already have a monitoring system? The Horizon Series™ offers a microprocessor temperature controller with a programmable high temperature alarm and manual alarm checks. The Laboratory model features an LED display and the Plasma model offers an LCD viewscreen.



i.Series Display



Horizon Series Display - Laboratory



Horizon Series Display - Plasma

Plasma Freezer Models



i.Series
(8-drawer models)
20 and 25 cu ft

Horizon Series
(8-drawer models)
20 and 25 cu ft

i.Series or Horizon Series
(4-drawer / 4-shelf models)
20 and 25 cu ft

Laboratory Freezer Models



i.Series
20 and 25 cu ft

Horizon Series
20 and 25 cu ft

Laboratory Freezers

Laboratory Freezers are offered in both the i.Series® and Horizon Series™ lines. i.Series® freezers feature the i.Center® Integrated Monitoring System. Horizon Series™ Freezers offer a microprocessor temperature controller and alarm. Single door units are available in 20 cu ft and 25 cu ft (572 - 714 liters). Standard configuration is 4 shelves.

Standard Features

Temperature Control and Monitoring

i.Series®

- i.Center® Monitoring System, described on page 6
- Two stainless steel monitoring probes in product simulation bottles

Horizon Series™

- Microprocessor temperature controller and alarm, described on page 6
- Single, stainless steel monitoring probe in product simulation bottle

i.Series® and Horizon Series™

- Digital microprocessor temperature controller factory set to -30°C with the following features:
 - Defrost can be programmed to actual time desired, allowing cycles to run automatically during low use periods
 - Temperature probe mounted in the chamber
 - Digital offset adjustment for calibration

Cabinet Construction

- Interior and exterior are galvanized steel with bacteria-resistant powder coating
- Superior engineered frame for maximum rigidity
- Heated door frame
- Magnetic door seal and latch for secure closure
- Standard key lock
- 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)
- Recessed floor



Refrigeration System

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

Shelves

- 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



Plasma Freezers

Plasma Freezers are offered in both the i.Series® and Horizon Series™ lines. i.Series freezers feature the i.Center® Integrated Monitoring System. Horizon Series™ freezers offer a microprocessor temperature controller and alarms. Single door units are available in 20 & 25 cu ft (572 - 714 liters). Two storage configurations are available: 8 drawer or 4 drawers and 4 shelves.

Standard Features

Temperature Control and Monitoring

i.Series®

- i.Center® Monitoring System, described on page 6
- Two stainless steel monitoring probes in product simulation bottles

Horizon Series™

- Microprocessor temperature controller and alarms
- Single, stainless steel monitoring probe in product simulation bottle

i.Series® and Horizon Series™

- Digital microprocessor temperature controller factory set to -30°C with the following features:
 - Defrost can be programmed to actual time desired, allowing cycles to run automatically during low use periods
 - Temperature probe mounted in the chamber
 - Digital offset adjustment for calibration
- 4" (102mm), 7-day circular chart recorder with the following features:
 - Inkless, pressure-sensitive chart paper with a range of -50°C to 0°C
 - Electronic drive mechanism for consistent results
 - Battery backup ensures continuous operation
 - Touch button controls for chart changes and calibration
 - Power status indicator

Cabinet Construction

- Stainless steel interior (i.Series®)
- Galvannealed steel with bacteria-resistant powder coated interior (Horizon Series™)
- Exterior is galvannealed steel with bacteria-resistant powder coating
- Cold-Shield™ System: Air shield with hinged door and closely spaced drawers (8-drawer models only)
- Superior engineered frame for maximum rigidity
- Heated door frame
- Magnetic door seal and latch for secure closure
- Standard key lock
- 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)
- Recessed floor



Refrigeration System

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

Storage Configurations

- 8 drawers with Cold-Shield™ System
- 4 drawers / 4 shelves



Cold-Shield System

Drawers

- Solid stainless steel pull out drawers
- Drawers are 4" (102mm) high
- Drawer fronts are 5.75" (147mm) high to prevent intrusion of ambient air
- Easy-Glide stainless steel drawer slides and standards for smooth operation at low temperatures
- Durable, liquid-tight construction for containment of spills



Shelves

- 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



i.Series® / Horizon Series™ Comparison

i.Center®




i.Series® freezers are monitored with Helmer's exclusive i.Center® technology. The i.Center® constantly monitors the chamber temperature and critical freezer 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 and alarm provides a controlled, stable temperature environment for products stored in your freezer. Includes LED display and high temperature alarm.

Controller / Alarm Monitor

The Horizon Series™ microprocessor temperature controller and alarms provides a controlled, stable temperature environment for products stored in your freezer. Includes digital viewscreen and audible and visual high temperature alarms add the security of constant monitoring.

i.Series® Laboratory and Plasma	Horizon Series™ Laboratory	Horizon Series™ Plasma
Alarm/Monitor 	Alarm/Monitor 	Alarm/Monitor 
i.Center® advanced alarm / monitor <ul style="list-style-type: none"> · i.Center LCD viewscreen · Automatic high 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 · Defrost log records refrigeration system performance · Defrost icon (snowflake) alerts user that defrost cycle is in progress · 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, and triple beep; and continuous · Optional RS232 data port · High temperature alarm · Door ajar alarm · Power failure alarm · Condenser temperature alarm · No battery alarm · Low battery alert* · Change chart paper alert* (plasma) 	Microprocessor temperature controller and alarm <ul style="list-style-type: none"> · LED digital display · Manual alarm test · Single temperature probe · LED display of upper chamber temperature · Dry contact alarm connection · Digital calibration · Battery backup · Alarm mute with 5 minute ring-back interval · Alarm silence with key switch · High temperature alarm · Door ajar alarm · Power failure alarm 	Microprocessor temperature controller and alarms <ul style="list-style-type: none"> · LCD viewscreen · Manual alarm test · Password protected configuration · Single temperature probe · Digital display of upper chamber temperature · Dry contact alarm connection · Digital calibration · Battery backup · Date and time display · Alarm mute with adjustable ring-back interval · Adjustable alarm volume · Four alarm options: single, double, and triple beep; and continuous · High temperature alarm · Door ajar alarm · Power failure alarm · Change chart paper alert* (plasma)
Cabinet <ul style="list-style-type: none"> · Interior: Stainless steel (plasma) / Powder-coated (laboratory) · Exterior: Powder-coated · Contoured bezel 	Cabinet <ul style="list-style-type: none"> · Interior: Powder-coated · Exterior: Powder-coated · Powder-coated metal bezel 	Cabinet <ul style="list-style-type: none"> · Interior: Powder-coated · Exterior: Powder-coated · Powder-coated metal bezel

* Visual only

Undercounter Freezers

i.Series® and Horizon Series™ Undercounter Laboratory and Plasma Freezers 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 / Freezer literature or www.helmerinc.com for more information.



Laboratory and Plasma Freezer Specifications

208 / 230V 60Hz NEMA 6-15 Plug
230V 50Hz CEE 7/7 Plug



Model/Series	Operating Range	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
iLF105 i.Series	-15° to -30°C	5 / 142	19.5 x 19.75 x 22 496 x 502 x 559	24 x 33.5 x 26.75 609 x 851 x 680	2	-	.33 HP Air-Cooled R404A Non-CFC	115V 60Hz 5.75 FLA 230V 50Hz 3 FLA	197 lb / 90 kg
HLF105 Horizon Series	-15° to -30°C	5 / 142	19.5 x 19.75 x 22 496 x 502 x 559	24 x 33.5 x 26.75 609 x 851 x 680	2	-	.33 HP Air-Cooled R404A Non-CFC	115V 60Hz 5.75 FLA 230V 50Hz 3 FLA	197 lb / 90 kg
iLF120 i.Series	-15° to -30°C	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 80 x 29.5 750 x 2032 x 750	4	-	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	437 lb / 199 kg
HLF120 Horizon Series	-15° to -30°C	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 80 x 29.5 750 x 2032 x 750	4	-	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	437 lb / 199 kg
iLF125 i.Series	-15° to -30°C	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 80 x 35.5 750 x 2032 x 902	4	-	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	475 lb / 216 kg
HLF125 Horizon Series	-15° to -30°C	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 80 x 35.5 750 x 2032 x 902	4	-	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	475 lb / 216 kg
iPF105 i.Series	-15° to -30°C	5 / 142	19.5 x 19.75 x 22 496 x 502 x 559	24 x 33.5 x 26.75 609 x 851 x 680	-	2	.33 HP Air-Cooled R404A Non-CFC	115V 60Hz 5.75 FLA 230V 50Hz 3 FLA	209 lb / 95 kg
HPF105 Horizon Series	-15° to -30°C	5 / 142	19.5 x 19.75 x 22 496 x 502 x 559	24 x 33.5 x 26.75 609 x 851 x 680	-	2	.33 HP Air-Cooled R404A Non-CFC	115V 60Hz 5.75 FLA 230V 50Hz 3 FLA	209 lb / 95 kg
iPF120-4 i.Series	-15° to -30°C	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 80 x 29.5 750 x 2032 x 750	4	4	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	483 lb / 219 kg
HPF120-4 Horizon Series	-15° to -30°C	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 80 x 29.5 750 x 2032 x 750	4	4	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	483 lb / 219 kg
iPF120-8 i.Series	-15° to -30°C	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 80 x 29.5 750 x 2032 x 750	-	8	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	499 lb / 227 kg
HPF120-8 Horizon Series	-15° to -30°C	20.2 / 572	24.75 x 58.25 x 24.25 629 x 1480 x 616	29.5 x 80 x 29.5 750 x 2032 x 750	-	8	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	499 lb / 227 kg
iPF125-4 i.Series	-15° to -30°C	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 80 x 35.5 750 x 2032 x 902	4	4	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	531 lb / 241 kg
HPF125-4 Horizon Series	-15° to -30°C	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 80 x 35.5 750 x 2032 x 902	4	4	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	531 lb / 241 kg
iPF125-8 i.Series	-15° to -30°C	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 80 x 35.5 750 x 2032 x 902	-	8	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	551 lb / 250 kg
HPF125-8 Horizon Series	-15° to -30°C	25.2 / 714	24.75 x 58.25 x 30.25 629 x 1480 x 769	29.5 x 80 x 35.5 750 x 2032 x 902	-	8	1.25 HP Air-Cooled R404 Non-CFC	208 / 230V 60Hz 6 FLA 230V 50Hz 6 FLA	551 lb / 250 kg

External transformers are not utilized
Meets IEC 61010 Standard. Meets AABB, ARC and FDA standards for blood plasma storage.
Specifications subject to change. Certified to applicable UL and CSA standards by a NRTL.



Options & Accessories

Full Size or Half Size Shelf with Hardware

Epoxy coated wire shelves are adjustable on 1" (26mm) increments. Designed with side and rear guards to prevent items from falling. Maximum load 100 lb (46 kg) per full shelf, 30 lb (14 kg) per half shelf.



Solid Stainless Steel Drawer with Hardware

Pull out drawers are 4" (102mm) high and adjustable on 1" (26mm) increments. Durable, liquid-tight drawer bottoms contain spills. Easy-Glide stainless steel drawer slides for smooth operation at low temperatures. Maximum load 100 lb (46 kg) per drawer.



Roll Out Basket with Hardware

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



Left-Hinged Single Door

Factory installed.

Stainless Steel Interior

Specify when ordering.

Temperature Validation

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

Warranty

i.Series® / Rel.i™

5 years compressor / 2 years parts / 1 year labor

Horizon Series™

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.

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.

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, -50°C to 0°C, package of 52

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).



Storage Trays

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



Floor and Wall Bracket Kit

Secures freezer 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.



Distinctly



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