

# Laboratory & Blood Bank Product Guide



CLINICAL LABORATORY  
BLOOD BANK | TRANSFUSION SERVICE  
BLOOD CENTER  
PHYSICIAN'S OFFICE  
TISSUE STORAGE



## Laboratory and Blood Bank



Maintaining the highest level of patient care and safety is your priority. For critical temperature controlled storage and processing equipment, Helmer Scientific is the company you can trust.

Helmer offers many outstanding products for the clinical laboratory and blood bank. Our refrigerators and freezers are designed and manufactured specifically for the safe storage of critical samples, reagents, blood and more with true medical-grade performance.

Backed with industry leading warranties, Helmer laboratory solutions meet your most demanding applications and take the worry out of cold storage, letting you focus on what's important to you.

### Understanding Helmer Cold Storage Model Numbers

The first three letters of a Helmer part number represent the series, segment type and product type. These are followed by three numbers which represent the number of doors followed by the capacity of the unit. Any additional letters will be included after a hyphen and represent a special product type.

#### Model Nomenclature Guide Example iLR125-GX

Series	Type	Product	Number of doors	Capacity	Line
i.Series	Laboratory	Refrigerator			
i	L	R	1	25	GX

## COLD STORAGE

### GX Solutions Professional Medical-grade Laboratory Refrigerators







#### i.Series® · Horizon Series™

+2°C to +10°C Factory set to +4°C

- » Powered by OptiCool™ cooling technology with variable capacity compressor (VCC) and natural hydrocarbon refrigerants
- » Maximum temperature uniformity and quick recovery
- » Ventilated shelves
- » Bacteria-resistant powder coating
- » Directional LED lighting (standard on Upright)
- » Self-closing doors with magnetic closure
- » Optional solid ballast simulator
- » Custom storage: drawers, ventilated drawers & ventilated shelves
- » Sustainable U.S. EPA and SNAP compliant natural refrigerants
- » Meets NSF/ANSI 456 Vaccine Storage Standard requirements when configured with NSF/ANSI 456 certification option
- » ADA compliant full-length handle and compatible with ADA compliant countertops



### GX Solutions Laboratory Refrigerator Selection Guide

Model Number	Capacity cu ft   L	Series	Style	Electrical Frequency V (Hz)	Door(s)	Ventilated Shelves	Sound dB	Exterior Dimensions W x H x D (in/mm)	Net Weight lb   kg
 iLR105-GX HLR105-GX	5.3   150	i.Series Horizon Series	Undercounter	115 (60) 220-240 (50/60)	1, Solid	2	42	24 x 31.5 x 26.7   610 x 798 x 678	174   79
 iLR113-GX HLR113-GX	13.3   377	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Dual-pane glass	4	39	24.8 x 70.5 x 26.2   628 x 1790 x 664 24.8 x 70.5 x 26.1   628 x 1790 x 663	306   139
 iLR120-GX HLR120-GX	20.2   572	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Dual-pane glass	4	49	29 x 79.6 x 28.2   737 x 2021 x 715 29 x 78.9 x 28.1   737 x 2003 x 712	445   202 442   201
 iLR125-GX HLR125-GX	25.2   714	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Dual-pane glass	4	49	29 x 79.6 x 34.2   737 x 2021 x 867 29 x 78.9 x 34.1   737 x 2003 x 865	456   207 453   206
 iLR245-GX HLR245-GX	44.9   1271	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	2, Dual-pane glass	8	52	59 x 79.6 x 28   1499 x 2021 x 712 59 x 78.9 x 28.1   1499 x 2003 x 712	667   303 667   303
 iLR256-GX HLR256-GX	56   1586	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	2, Dual-pane glass	8	52	59 x 79.6 x 34.1   1499 x 2021 x 865 59 x 78.9 x 34.1   1499 x 2003 x 865	703   319 693   315

# GX Solutions Professional Medical-grade Blood Bank Refrigerators

## i.Series® · Horizon Series™

+2°C to +10°C Factory set to +4°C

- » Powered by OptiCool™ cooling technology with variable capacity compressor (VCC) and natural hydrocarbon refrigerants
- » Maximum temperature uniformity and quick recovery
- » Solid, stainless steel pull out, liquid-tight drawers
- » Bacteria-resistant powder coating
- » Directional LED lighting (standard on Upright)
- » Self-closing doors with magnetic closure
- » Optional solid ballast simulator
- » Custom storage: drawers, ventilated drawers and ventilated shelves
- » Sustainable U.S EPA and SNAP compliant natural refrigerants
- » ADA compliant full-length handle and compatible with ADA compliant countertops



## GX Solutions Blood Bank Refrigerator Selection Guide

Model Number	Capacity cu ft   L	Series	Style	Electrical Frequency V (Hz)	Door(s)	Solid Drawers	Sound dB	Exterior Dimensions W x H x D (in/mm)	Net Weight lb   kg
iBR105-GX HBR105-GX	5.3   150	i.Series Horizon Series	Undercounter	115 (60) 220-240 (50/60)	1, Solid	2	42	24 x 31.5 x 26.7   610 x 798 x 678	186   85 184   84
iBR113-GX HBR113-GX	13.3   377	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Dual-pane glass	5	39	24.8 x 70.5 x 26.2   628 x 1790 x 664 24.8 x 70.5 x 26.1   628 x 1790 x 663	342   156 337   153
iBR120-GX HBR120-GX	20.2   572	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Dual pane glass	7	49	29 x 79.6 x 28.2   737 x 2021 x 715 29 x 78.9 x 28.1   737 x 2003 x 712	507   230 504   229
iBR125-GX HBR125-GX	25.2   714	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Dual-pane glass	7	49	29 x 79.6 x 34.2   737 x 2021 x 867 29 x 78.9 x 34.1   737 x 2003 x 865	535   243 532   242
iBR245-GX HBR245-GX	44.9   1271	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	2, Dual-pane glass	14	52	59 x 79.6 x 28.0   1499 x 2021 x 712 59 x 78.9 x 28.1   1499 x 2003 x 712	809   367 808   367
iBR256-GX HBR256-GX	56   1586	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	2, Dual-pane glass	14	52	59 x 79.6 x 34.1   1499 x 2021 x 865 59 x 78.9 x 34.1   1499 x 2003 x 865	863   392 817   371

# GX Solutions Professional Medical-grade Blood Bank Pass-Thru Refrigerators

## i.Series® · Horizon Series™

+2°C to +10°C Factory set to +4°C

- » Powered by OptiCool™ cooling technology with variable capacity compressor (VCC) and natural hydrocarbon refrigerants
- » Maximum temperature uniformity and quick recovery
- » Solid, stainless steel two-way, liquid-tight drawers
- » Bacteria-resistant powder coating
- » Directional LED lighting
- » Self-closing doors with magnetic closure
- » Optional solid ballast simulator
- » Custom storage options: drawers and ventilated shelves
- » Sustainable US EPA and SNAP compliant natural refrigerants
- » ADA compliant full-length handle



## GX Solutions Blood Bank Pass-Thru Refrigerator Selection Guide

Model Number	Capacity cu ft   L	Series	Style	Electrical Frequency V (Hz)	Door(s)	Solid Drawers	Exterior Dimensions W x H x D (in/mm)	Net Weight lb   kg
iBR226-GX HBR226-GX	26.4   747	i.Series Horizon Series	Pass-Thru	115 (60) 220-240 (50/60)	2, Dual-pane glass	6	29 x 79.6 x 35.8   737 x 2021 x 1014 29 x 79.3 x 35.8   737 x 2013 x 1014	548   249 541   246
iBR458-GX HBR458-GX	58.5   1656	i.Series Horizon Series	Pass-Thru	115 (60) 220-240 (50/60)	4, Dual-pane glass	12	59 x 79.6 x 35.8   1499 x 2021 x 1014 59 x 79.3 x 35.8   1499 x 2013 x 1014	913   414 899   408

# GX Solutions Professional Medical-grade Laboratory Freezers (-30°C)




## i.Series® · Horizon Series™

Upright -15°C to -35°C Factory set to -30°C  
 Undercounter -15°C to -30°C Factory set to -30°C

- » Powered by OptiCool™ cooling technology with variable capacity compressor (VCC) and natural hydrocarbon refrigerants
- » Maximum temperature uniformity and quick recovery
- » Ventilated shelves
- » Bacteria-resistant powder coating
- » Self-closing doors with magnetic closure
- » Auto defrost with programmable defrost cycles
- » Heated door frame
- » Custom storage: drawers, ventilated drawers, and ventilated shelves
- » Sustainable U.S. EPA and SNAP compliant natural refrigerants
- Meets NSF/ANSI 456 Vaccine Storage Standard requirements when configured with NSF/ANSI 456 certification option
- » Compatible with ADA compliant countertops (undercounter)



## GX Solutions Laboratory Freezer Selection Guide

Model Number	Capacity cu ft   L	Series	Style	Electrical Frequency V (Hz)	Door(s)	Ventilated Shelves	Sound dB	Exterior Dimensions W x H x D (in mm)	Net Weight lb   kg
 iLF105-GX HLF105-GX	5.3   150	i.Series Horizon Series	Undercounter	115 (60) 220-240 (50/60)	1, Solid	2	46	24 x 31.5 x 26.7   610 x 798 x 678	179   82
 iLF120-GX HLF120-GX	20.2   572	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Solid	4	52	29 x 80.3 x 28.6   737 x 2039 x 725 29 x 80.3 x 28.4   737 x 2039 x 720	400   182 397   181
 iLF125-GX HLF125-GX	25.2   714	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Solid	4	52	29 x 80.3 x 34.4   737 x 2039 x 874 29 x 80.3 x 34.4   737 x 2039 x 874	444   202 441   201

# GX Solutions Professional Medical-grade Plasma Freezers (-30°C)

## i.Series® · Horizon Series™




Upright -15°C to -35°C Factory set to -30°C  
 Undercounter -15°C to -30°C Factory set to -30°C

- » Powered by OptiCool™ cooling technology with variable capacity compressor (VCC) and natural hydrocarbon refrigerants
- » Maximum temperature uniformity and quick recovery
- » Solid, stainless steel pull out, liquid-tight drawers
- » Bacteria-resistant powder coating
- » Self-closing doors with magnetic closure
- » Auto defrost with programmable defrost cycles
- » Heated door frame
- » Custom storage: drawers, ventilated drawers, and ventilated shelves
- » Sustainable U.S. EPA and SNAP compliant natural refrigerants
- » Compatible with ADA compliant countertops (undercounter)



## GX Solutions Plasma Freezer Selection Guide



Model Number	Capacity cu ft   L	Series	Style	Electrical Frequency V (Hz)	Door(s)	Solid Drawers	Sound dB	Exterior Dimensions W x H x D (in mm)	Net Weight lb   kg
 iBF105-GX HBF105-GX	5.3   150	i.Series Horizon Series	Undercounter	115 (60) 220-240 (50/60)	1, Solid	2	46	24 x 31.5 x 26.7   610 x 798 x 678	187   85
 iBF120-GX HBF120-GX	20.2   572	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Solid	8 plus Cold-Shield™	52	29 x 80.3 x 28.6   737 x 2039 x 725 29 x 80.3 x 28.4   737 x 2039 x 720	469   213 466   212
 iBF125-GX HBF125-GX	25.2   714	i.Series Horizon Series	Upright	115 (60) 220-240 (50/60)	1, Solid	8 plus Cold-Shield™	52	29 x 80.3 x 34.4   737 x 2039 x 874 29 x 80.3 x 34.4   737 x 2039 x 874	524   238 521   237

# Ultra-Low Temperature Freezers (-80°C)

## i.Series®

-50°C to -86°C Factory set to -80°C

- » Heat Barrier System™ reduces frost
- » Insulated and structurally reinforced inner doors
- » Ice-resistant sealing surface
- » Robust, single-handed door handle
- » Optimized oil management
- » Integrated access control
- » Diagnostic data provides faster troubleshooting
- » Optional 7-day chart recorder



## -80° C Freezer Selection Guide

Model Number	Capacity cu ft   L	Series	Style	Exterior Dimensions W x H x D (in/mm)	Electrical Frequency V (Hz)	No of Shelves	Door(s)	Panels	Net Weight lb   kg
iUF118	18   510	i.Series	Upright	32.5 x 78.2 x 37.5   826 x 1986 x 953	208/230 (60)	4	1	Vacuum insulated	622   282
iUF126	26   736	i.Series	Upright	43.8 x 78.2 x 37.5   1113 x 1986 x 953	208/230 (60)	4	1	Vacuum insulated	725   328

# OPTION

## Integrated Electronic Access Control

### i.Series®

Ultra-Low Freezers - Standard

Refrigerators, Freezers, Countertop Platelet Incubators - Optional

Integrated electromagnetic access control offers secure access to the refrigerator, freezer or platelet incubator via the i.C<sup>3</sup> Information Center. An electromagnetic lock is integrated into the unit and controlled by PIN entry.



- » Up to 100 unique User ID's can be set up directly from the i.C<sup>3</sup> and programmed with an individual access PIN
- » The Access Control display can be used as an alternative Home Screen
- » The Access Control log provides an audit trail of door entries and can be downloaded
- » Key override is included

### Horizon Series™

Refrigerators and Freezers - Optional

The 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 keypad

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



# PRO LINE PLATELET STORAGE SYSTEMS

## Pro Line Countertop Platelet Incubators

+20°C to +35°C Factory set to +22°C

- » Features AdvanceCore™ solid-state thermoelectric heating and cooling technology which provides reliable operation for the secure storage of platelets
- » The i.C3® Information Center provides constant temperature monitoring and control with password protection and reporting functionality
- » AgiTrak™ agitation monitoring system offers live status of speed and cycle information (includes motion alarm)
- » 7-day chart recorder
- » Bacteria-resistant powder coating
- » Auto-Stop/Start ensures continuous agitation of platelets
- » Electronic access control offers secure PIN access to the platelet incubator via the i.C3® Information Center (optional)



## Pro Line Countertop Incubator Selection Guide

Model Number	Agitator Compatibility	Electrical Frequency V (Hz)	Energy KWh/day	Doors	Exterior Dimensions W x H x D (in   mm)	Net Weight lb   kg
PC100-Pro	PF15-Pro (1)	100 - 240V 50/60Hz	1.24	Dual-pane, hinged	20.8 x 26.4 x 16.9 528 x 670 x 429	116   53
PC900-Pro	PF48-Pro (1)	100 - 240V 50/60Hz	1.5	Single-pane retractable	26 x 29.7 x 26 661 x 753 x 661	136   62
PC1200-Pro	PF96-Pro (1)	100 - 240V 50/60Hz	1.5	Single-pane retractable	40.3 x 29.7 x 26 1023 x 753 x 766	173   79

## Pro Line Floor Model Platelet Incubators

+20°C to +24°C Factory set to +22°C

- » Features OptiCool™ RT heating and cooling technology includes variable capacity compressor (VCC) and Natural Hydrocarbons (HC) which provides reliable operation for the secure storage of platelets
- » The i.Center® Plus Information Center provides constant temperature monitoring and control with enhanced password protection and reporting functionality
- » AgiTrak™ agitation monitoring system offers live status of speed and cycle information (includes motion alarm)
- » 7-day chart recorder
- » Bacteria-resistant powder coating
- » Auto-Stop/Start ensures continuous agitation of platelets
- » PC4200-Pro variable agitation speed can be adjusted for specific regulations



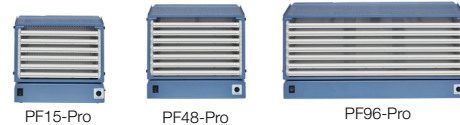
## Pro Line Floor Model Incubator Selection Guide

Model Number	Agitator/Incubator Compatibility	Electrical Frequency V (Hz)	Energy KWh/day	Doors	Exterior Dimensions W x H x D (in   mm)	Net Weight lb   kg
PC2200-Pro	PF96-Pro (2)	100-115V   50/60Hz 220-240V   50/60Hz	3.4	2, hinged	40.1 x 60.1 x 28 1018 x 1526 x 710	406   184*
PC3200-Pro	PF96-Pro (3)	100-115V   50/60Hz 220-240V   50/60Hz	3.8	2, hinged	40.1 x 75.6 x 28 1018 x 1920 x 710	485   220*
PC4200-Pro	Built-in 384 WBD   128 SDP	100-115V   50/60Hz 220-240V   50/60Hz	4.9	2, hinged	40.1 x 75.6 x 28 1018 x 1920 x 710	740   336 743   337

\*Stated without PF-Pro agitators installed

## Pro Line Platelet Agitators

- » Provides continuous, gentle agitation required to maintain the quality and effectiveness of platelets
- » Motion alarm ensures continuous motion
- » Variable agitation speed can be adjusted for specific regulations
- » AgiTrak™ agitation performance monitoring system allows monitoring and control by Pro Line Incubators
- » Pull-out, ventilated drawers
- » Can be used within a Pro Line incubator or free-standing\* in an environmentally controlled room



### Pro Line Platelet Agitators Selection Guide

Model Number	Capacity WBD   SDP	Incubator Compatibility	Electrical Frequency V (Hz)	Storage	Energy KWH/day	Exterior Dimensions W x H x D	Net Weight lb   kg
PF15-Pro	15   7	PC100-Pro	100-240V 50/60Hz** 24VDC with incubator	1 Shelf 6 Ventilated Drawers	0.27	15.4 x 13.1 x 8.5 392 x 333 x 216	33   15
PF48-Pro	48   16	PC900-Pro	100-240V 50/60Hz** 24VDC with incubator	1 Shelf 7 Ventilated Drawers	0.27	17.2 x 14.5 x 13.8 437 x 368 x 351	50   23
PF96-Pro	96   32	PC1200-Pro (1) PC2200-Pro (2) PC3200-Pro (3)	100-240V 50/60Hz** 24VDC with incubator	1 Shelf 7 Ventilated Drawers	0.27	32.2 x 14.5 x 13.8 818 x 368 x 351	80   37

Note: WBD - whole blood derived (random) SDP - single donor platelet (apheresis)  
 \* Free standing agitators use external AC/DC power supply \*\*Stated for incubator with compatible agitator running

## QuickThaw®

### Plasma Thawing Systems

- » Controlled temperature and agitation substantially reduces thaw times
- » Stainless steel chamber and baskets
- » Compact size saves bench space
- » Dual baskets with independent controls accommodate a variety of bag configurations:

Random and apheresis plasma      Cryoprecipitate  
 Flat or folded units                      Red Blood Cells



### Plasma Thawer Selection Guide

Model Number	Thawing Capacity*	Style	Exterior Dimensions W x H x D (in/mm)	Electrical Frequency V(HZ)	Baskets	Net Weight lb   kg
DH2	2 bags	Countertop	11.25 x 16.25 x 14.75   286 x 413 x 375	100 (50) 115 (50/60) 230 (50/60)	Stainless Steel	38   18
DH4	4 bags	Countertop	18.5 x 16.25 x 14.75   470 x 413 x 375	100 (50) 115 (50/60) 230 (50/60)	Stainless Steel	58   26
DH8	8 bags	Countertop	18.5 x 16.25 x 22   470 x 413 x 559	100 (50) 115 (50/60) 230 (50/60)	Stainless Steel	74   34

\*Carefully determine usage needs to ensure that the appropriate sized unit is purchased

# UltraCW® II

## Automatic Cell Washing System

- » Create in-line programs that streamline workflows
- » Achieve optimal results by customizing programs to protocols
- » Ensure precise saline fills with electronic flow meter and digital calibration
- » Receive alerts for cycle errors and end of program
- » Increase productivity and sample capacity with 12-place and 24-place rotors
- » Place saline supply above or below unit
- » Connect saline directly to cell washer



Model Number	Capacity	Maximum RPM	Cycle Process Time	Style	Electrical Frequency V (Hz)	Exterior Dimensions W x H x D	Net Weight lb   kg
UltraCW® II	12-place   12 10x75 or 12x75mm tubes 24-place   24 10x75 or 12x75mm tubes	3,500	60 seconds (Spin time - 35 sec)	Countertop	100-240V 50/60Hz	13 x 11 x 18.9 in   331 x 280 x 480 mm Height 22.5 in   572 mm with lid open	53.8   24.4

## Centrifuges

A wide range of centrifuges and hundreds of accessories are available to accommodate every laboratory and blood bank need. Application specific packages have been developed for your convenience for stat, serology, samples, and more.

- Quiet, maintenance-free performance
- Microprocessor controlled with digital operation
- Programmable speed and time
- Standard safety features



**Helmer Scientific**  
 14400 Bergen Boulevard | Noblesville, IN 46060 USA  
 Toll Free (U.S. and Canada): 800.743.5637  
 Phone: 317.773.9073 | Fax: 317.773.9082  
[www.helmerinc.com](http://www.helmerinc.com)

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