

Laboratory & Blood Bank Product Guide



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





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

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.C³ 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.C³ 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 Countertop Platelet Storage Systems

+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 Platelet Incubators Selection Guide



Model Number	Agitator Compatibility	Electrical Frequency V (Hz)	Energy kWh/day	Doors	Exterior Dimensions W x H x D	Net Weight lb kg
PC100-Pro	1-PF15-Pro	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	1-PF48-Pro	100 - 240V 50/60Hz	1.5	Single-pane retractable	26 x 29.7 x 26 661 x 753 x 661	136 62
PC1200-Pro	1-PF96-Pro	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 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	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

Floor Model Platelet Storage Systems

i.Series® · Horizon Series™

- » i.Series models feature the i.Center® Integrated Monitoring System with 4-inch LCD screen
- » 7-day chart recorder
- » Bacteria-resistant powder coating
- » Auto-Stop/Start ensures continuous agitation of platelets
- » i.Series agitator features a built-in motion alarm and can be monitored by the i.Center®
- » Non-slip, textured agitator drawers with label holders



Floor Model Platelet Storage Systems Selection Guide

Model Number	Capacity WBD SDP	Agitator/Incubator Compatibility	Series	Style	Exterior Dimensions W x H x D	Electrical Frequency V (Hz)	Doors	Net Weight lb kg
PC2200i PC2200h	192 64	2-PF96	i.Series Horizon Series	Floor Model Incubator	40.25 x 60 x 28 1023 x 1524 x 712	115 (50/60) 230 (50/60)	Dual-pane glass	363 165
PC3200i PC3200h	288 96	3-PF96	i.Series Horizon Series	Floor Model Incubator	40.25 x 75.5 x 28 1023 x 1918 x 712	115 (50/60) 230 (50/60)	Dual-pane glass	431 196
PC4200i PC4200h	396 142	Built-in Agitator	i.Series Horizon Series	Floor Model Incubator	40.25 x 75.5 x 28 1023 x 1918 x 712	115 (50/60) 230 (50/60)	Dual-pane glass	663 301
PF96i PF96h	96 32	PC2200 PC3200	i.Series Horizon Series	Agitator	33 x 15.25 x 14.5 838 x 388 x 369	100 (50/60) 115 (50/60) 230 (50/60)	N/A	82 37

Note: Horizon Series Agitators are not equipped with a motion alarm and are not recommended for use in an i.Series Incubator

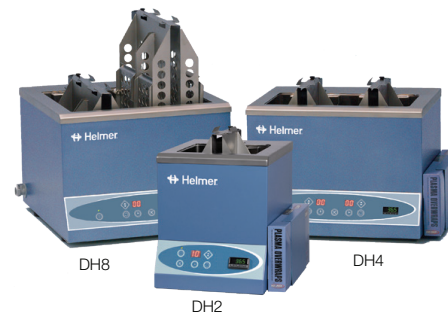
Horizon Series models not shown

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



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