

Platelet Storage



i.Series®
Horizon Series™

Platelet Storage Systems

Incubators & Agitators

Helmer has provided high-quality laboratory equipment and refrigerated products for over 35 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 TrueBlue™ protection.



Helmer Platelet Incubators Deliver

High-Quality Craftsmanship

- Superior chamber temperature uniformity with forced-air refrigeration system and precision pulse heating
- Operating temperature range from +20°C to +35°C
- Bacteria-resistant powder coated interior and exterior for added security
- Exclusive Auto-Stop/Start ensures continuous agitation of platelets

Secure Monitoring for a Safe Storage Environment

- Digital temperature display (i.Center® Monitoring System included on i.Series® incubators)
- AgiTrak™ System monitors agitator performance (i.Series®)
- Password protected configuration (i.Series®)
- Key lock

Designed for Convenience & Performance

- Countertop and floor models from 15 to 396 random bags (5 to 132 apheresis bags)
- All controls located in one convenient location

i.Series® and Horizon Series™ Lines

Platelets merit the most advanced alarm/monitoring available because of their limited supply and short shelf life. The name Helmer has long been synonymous with dependable platelet storage. We have combined our experience and innovation to bring you the most advanced Platelet Storage Systems available today.

Helmer offers two distinct platelet storage systems. The i.Series® line offers many unique features. 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 5 year compressor warranty provide advanced monitoring for the storage of this valuable blood component.

The Horizon Series™ offers temperature control with alarms. It features LED digital temperature display, programmable high and low temperature alarms, manual alarm checks, and a programmable operating range.

Incubators

i.Series® Floor and Countertop Models



Clockwise from Upper Left:
PC4200i, PC3200i, PC2200i, PC100i, PC900i, PC1200i

Horizon Series™ Floor and Countertop Models



Clockwise from Upper Left:
PC4200h, PC3200h, PC2200h, PC100h, PC900h, PC1200h

Agitators

i.Series® Floor and Countertop Models



PF396i

PF48i

PF15i

PF96i

Horizon Series™ Countertop Models



PF96h

PF48h

PF15h

Platelet Storage Systems

Incubators / Agitators

Incubators and Agitators are offered in both the i.Series® and Horizon Series™ lines. i.Series® incubators feature the i.Center® Integrated Monitoring System, which includes the AgiTrak™ System for monitoring side-to-side motion.

Horizon Series™ incubators offer a microprocessor temperature controller and alarm/monitor system. Countertop and floor model incubators are available with coordinated agitators, storing 15 to 396 random bags (5 to 132 apheresis bags).

Incubators

Helmer offers three floor model platelet incubators. These units feature eye level controls and alarms. The PC2200 contains two shelves and holds two PF96 agitators. The PC3200 has three shelves and holds three PF96 agitators. The PC2200 and PC3200 units are equipped with roll out drawers for easy access to the agitators inside. The PC4200 is the largest capacity platelet incubator available. It features a built-in agitator with a capacity of 396 random bags (132 apheresis bags).

Our countertop platelet incubators offer an efficient use of counter space with top mounted controls. Each of the three countertop models holds a single agitator.



Temperature Control and Monitoring

i.Series®

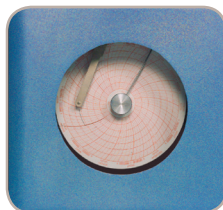
- i.Center® Monitoring System, described on page 6
- Dual stainless steel monitoring probes (PC3200i and PC4200i)
- Single stainless steel monitoring probe (all other models)

Horizon Series™

- Microprocessor temperature controller with built-in alarm/monitor, described on page 6
- Single stainless steel monitoring probe

i.Series® and Horizon Series™

- Digital microprocessor temperature controller factory set to 22°C
- 4" (102mm), 7-day circular chart recorder with the following features:
 - Inkless, pressure-sensitive chart paper with a range of 0°C to 35°C
 - Electronic drive mechanism for consistent results
 - Battery backup ensuring continuous operation
 - Touch button controls for chart changes and calibration
 - Power status indicator



Refrigeration System

- Air-cooled, forced-air refrigeration system
- Non-CFC, commercially available refrigerant
- Automatic condensate evaporator
- Forced-air circulation maintains chamber uniformity of +/-1°C and provides quick recovery

Cabinet Construction

- Auto-Stop/Start feature pauses agitation when incubator door is opened and automatically resumes agitation when door is closed
- Bacteria-resistant, powder-coated steel interior, exterior, and door handles
- Dual-pane tempered glass door(s) with magnetic seal (floor models and PC100)
- Retractable, single-pane, tempered glass door (PC900 and PC1200)
- Top mounted controls
- Swivel locking casters (floor models)
- Key lock

Agitators

Helmer Platelet Agitators offer a wide range of storage capacities and can be placed in Helmer Incubators. The PF396i floor model is a stand alone unit. One-piece perforated drawers provide uniform air circulation. i.Series® agitators feature a built-in motion alarm. Storage capacity is from 15 to 396 random bags (5 to 132 apheresis bags).



Construction

- Delrin® acetal resin rollers and glides for smooth agitation
- Internal fan
- One-piece removable perforated drawers (PF48, PF96, and PF396 models)
- Perforated shelves (PF15 models)
- Label holders (except PF15 models)



Capacity and Compatibility

Incubator	Agitator Compatibility
PC100	1 - PF15
PC900	1 - PF48
PC1200	1 - PF96
PC2200	2 - PF96
PC3200	3 - PF96
PC4200	Built-in PF396i agitator

Agitator Capacities

PF15	15 Random Bags / 5 Apheresis Bags
PF48	48 Random Bags / 16 Apheresis Bags
PF96	96 Random Bags / 32 Apheresis Bags
PF396	396 Random Bags / 132 Apheresis Bags



Please note: Horizon Series™ agitators are not equipped with a motion alarm and cannot be monitored by the i.Series® AgiTrak system. Horizon agitators are not recommended for use in an i.Series® incubator.

i.Series® / Horizon Series™ Comparison



i.Center®

i.Series® Platelet Storage Systems are monitored with Helmer's exclusive i.Center® technology. The i.Center® constantly monitors the chamber temperature and critical functions, safeguarding the products inside and providing valuable information to the user.

Controller / Alarm Monitor

The Horizon Series™ microprocessor temperature controller and alarm provides a controlled, stable temperature environment for stored products. Includes LED display and temperature alarms.

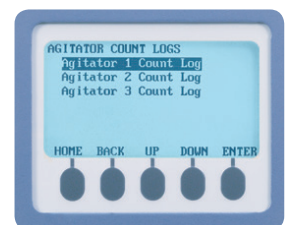
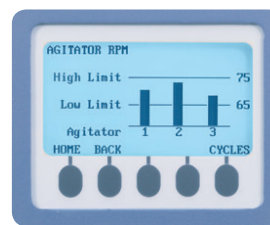
i.Series® / Horizon Series™ Monitoring

i.Series®	Horizon Series™
 <p>i.Center® advanced alarm/monitor</p> <ul style="list-style-type: none"> · i.Center LCD viewscreen · Automatic high/low temperature alarm testing (Peltier based) · Password protected configuration · Dual temperature probes (PC3200i and PC4200i) · Single temperature probe (other models) · Digital display of chamber temperature · Event log of alarm conditions · AgiTrak System (includes RPM display screen, agitator cycle counter, and motion alarm) · 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 · Audible and visual alarms · Adjustable alarm volume and type · Optional RS232 data port · High and low temperature alarms · Door ajar alarm · Power failure alarm · Condenser temperature alarms · No battery alarm · Low battery alert (visual) · Change chart paper alert (visual) 	 <p>Microprocessor temperature controller and alarm</p> <ul style="list-style-type: none"> · LED digital display · Manual alarm test · Controller lockout · Single temperature probe (all models) · Dry contact alarm connection · Audible and visual alarms · Fixed alarm volume and type · High and low temperature alarms · Power failure alarm

i.Center® AgiTrak™ System

The i.Center® AgiTrak™ System monitors the function of agitators placed in an incubator to provide critical information on the performance of the agitators. The AgiTrak™ system is exclusive to i.Series® platelet incubators, and must be utilized with an i.Series® platelet agitator with a motion alarm.

- RPM validation screen monitors the cycle speed of the agitator(s)
- Validation screen includes agitator count and logs which record alarm conditions
- Agitator cycle counter tracks the number of cycles on all agitators housed within the incubator.



Incubator Specifications

Model/Series	Operating Range	Glass Doors	Interior Dimensions (w x h x d) (in/mm)	Exterior Dimensions (w x h x d) (in/mm)	Agitator Compatibility	Compressor	Electrical*	Net Weight
PC100i i.Series	20°C to 35°C	Dual-Pane	17.5 x 13.25 x 10.75 445 x 337 x 274	21.25 x 25 x 18.75 540 x 635 x 477	PF15i	1.3 HP Air-Cooled, R134A Non-CFC (115V) 0.5 HP Air-Cooled, R134A Non-CFC (230V)	100V 50/60Hz 8 FLA 115V 60Hz 8 FLA 230V 50/60Hz 5 FLA	105 lb 48 kg
PC100h Horizon Series	20°C to 35°C	Dual-Pane	17.5 x 13.25 x 10.75 445 x 337 x 274	21.25 x 25 x 18.75 540 x 635 x 477	PF15i or PF15h	1.3 HP Air-Cooled, R134A Non-CFC (115V) 0.5 HP Air-Cooled, R134A Non-CFC (230V)	100V 50/60Hz 8 FLA 115V 60Hz 8 FLA 230V 50/60Hz 5 FLA	105 lb 48 kg
PC900i i.Series	20°C to 35°C	Single-Pane	22.25 x 15.75 x 17.75 566 x 401 x 451	26 x 30.25 x 25.25 661 x 768 x 642	PF48i	1.3 HP Air-Cooled, R134A Non-CFC (115V) 0.5 HP Air-Cooled, R134A Non-CFC (230V)	100V 50/60Hz 8 FLA 115V 60Hz 9 FLA 230V 50/60Hz 4.5 FLA	159 lb 72 kg
PC900h Horizon Series	20°C to 35°C	Single-Pane	22.25 x 15.75 x 17.75 566 x 401 x 451	26 x 30.25 x 25.25 661 x 768 x 642	PF48i or PF48h	1.3 HP Air-Cooled, R134A Non-CFC (115V) 0.5 HP Air-Cooled, R134A Non-CFC (230V)	100V 50/60Hz 8 FLA 115V 60Hz 9 FLA 230V 50/60Hz 4.5 FLA	159 lb 72 kg
PC1200i i.Series	20°C to 35°C	Single-Pane	35.25 x 15.75 x 17.75 896 x 401 x 451	40.25 x 30.25 x 25.25 1023 x 768 x 642	PF96i	1.3 HP Air-Cooled, R134A Non-CFC (115V) 0.5 HP Air-Cooled, R134A Non-CFC (230V)	100V 50/60Hz 8 FLA 115V 60Hz 9 FLA 230V 50/60Hz 4.5 FLA	208 lb 94 kg
PC1200h Horizon Series	20°C to 35°C	Single-Pane	35.25 x 15.75 x 17.75 896 x 401 x 451	40.25 x 30.25 x 25.25 1023 x 768 x 642	PF96i or PF96h	1.3 HP Air-Cooled, R134A Non-CFC (115V) 0.5 HP Air-Cooled, R134A Non-CFC (230V)	100V 50/60Hz 8 FLA 115V 60Hz 9 FLA 230V 50/60Hz 4.5 FLA	208 lb 94 kg
PC2200i i.Series	20°C to 35°C	Dual-Pane	36.5 x 35.25 x 18 928 x 896 x 458	40.25 x 60 x 28 1023 x 1524 x 712	PF96i (2)	1.8 HP Air-Cooled, R134A Non-CFC (115V) 2.1 HP Air-Cooled, R134A Non-CFC (230V)	115V 60Hz 11.5 FLA 230V 50/60Hz 7 FLA	363 lb 165 kg
PC2200h Horizon Series	20°C to 35°C	Dual-Pane	36.5 x 35.25 x 18 928 x 896 x 458	40.25 x 60 x 28 1023 x 1524 x 712	PF96i or PF96h (2)	1.8 HP Air-Cooled, R134A Non-CFC (115V) 2.1 HP Air-Cooled, R134A Non-CFC (230V)	115V 60Hz 11.5 FLA 230V 50/60Hz 7 FLA	363 lb 165 kg
PC3200i i.Series	20°C to 35°C	Dual-Pane	36.5 x 50.75 x 18 928 x 1290 x 458	40.25 x 75.5 x 28 1023 x 1918 x 712	PF96i (3)	1.8 HP Air-Cooled, R134A Non-CFC (115V) 2.2 HP Air-Cooled, R134A Non-CFC (230V)	115V 60Hz 12 FLA 230V 50/60Hz 7 FLA	431 lb 196 kg
PC3200h Horizon Series	20°C to 35°C	Dual-Pane	36.5 x 50.75 x 18 928 x 1290 x 458	40.25 x 75.5 x 28 1023 x 1918 x 712	PF96i or PF96h (3)	1.8 HP Air-Cooled, R134A Non-CFC (115V) 2.2 HP Air-Cooled, R134A Non-CFC (230V)	115V 60Hz 12 FLA 230V 50/60Hz 7 FLA	431 lb 196 kg
PC4200i i.Series	20°C to 35°C	Dual-Pane	36.5 x 50.75 x 18 928 x 1290 x 458	40.25 x 75.5 x 28 1023 x 1918 x 712	Built-in	1.9 HP Air-Cooled, R134A Non-CFC (115V) 2.3 HP Air-Cooled, R134A Non-CFC (230V)	115V 60Hz 14.5 FLA 230V 50/60Hz 8.3 FLA	663 lb 301 kg
PC4200h Horizon Series	20°C to 35°C	Dual-Pane	36.5 x 50.75 x 18 928 x 1290 x 458	40.25 x 75.5 x 28 1023 x 1918 x 712	Built-in	1.9 HP Air-Cooled, R134A Non-CFC (115V) 2.3 HP Air-Cooled, R134A Non-CFC (230V)	115V 60Hz 14.5 FLA 230V 50/60Hz 8.3 FLA	663 lb 301 kg



Agitator Specifications

Model/Series	Dimensions (w x h x d) (in/mm)	Maximum Storage Capacity	Drawers	Incubator Compatibility	Motion Alarm	Electrical	Net Weight
PF15i i.Series	15.25 x 12.5 x 9.25 387 x 318 x 235	15 Random Bags 5 Apheresis Bags	5 Stationary	PC100i or PC100h	Yes	100V 50/60Hz 0.4 FLA 115V 60Hz 0.4 FLA 230V 50/60Hz 0.25 FLA	26.5 lb 12 kg
PF15h Horizon Series	15.25 x 12.5 x 9.25 387 x 318 x 235	15 Random Bags 5 Apheresis Bags	5 Stationary	PC100h	No	100V 50/60Hz 0.4 FLA 115V 60Hz 0.4 FLA 230V 50/60Hz 0.25 FLA	26.5 lb 12 kg
PF48i i.Series	18 x 15.25 x 14.5 458 x 388 x 369	48 Random Bags 16 Apheresis Bags	7 Pull-out, 1 Stationary	PC900i or PC900h	Yes	100V 50/60Hz 0.4 FLA 115V 60Hz 0.4 FLA 230V 50/60Hz 0.25 FLA	51 lb 23 kg
PF48h Horizon Series	18 x 15.25 x 14.5 458 x 388 x 369	48 Random Bags 16 Apheresis Bags	7 Pull-out, 1 Stationary	PC900h	No	100V 50/60Hz 0.4 FLA 115V 60Hz 0.4 FLA 230V 50/60Hz 0.25 FLA	51 lb 23 kg
PF96i i.Series	33 x 15.25 x 14.5 838 x 388 x 369	96 Random Bags 32 Apheresis Bags	7 Pull-out, 1 Stationary	PC1200i / PC1200h, PC2200i / PC2200h, PC3200i / PC3200h	Yes	100V 50/60Hz 0.4 FLA 115V 60Hz 0.4 FLA 230V 50/60Hz 0.25 FLA	82 lb 37 kg
PF96h Horizon Series	33 x 15.25 x 14.5 838 x 388 x 369	96 Random Bags 32 Apheresis Bags	7 Pull-out, 1 Stationary	PC1200h, PC2200h, PC3200h	No	100V 50/60Hz 0.4 FLA 115V 60Hz 0.4 FLA 230V 50/60Hz 0.25 FLA	82 lb 37 kg
PF396i i.Series	37 x 62.5 x 27 940 x 1588 x 686	396 Random Bags 132 Apheresis Bags	33 Pull-out	Not Applicable	Yes	115V 60Hz 3 FLA 230V 50/60Hz 2 FLA	250 lb 114 kg

Specifications subject to change. Certified to UL and CSA standards by a NRTL (PF396i excluded)
* FLA specification includes load of maximum number of Helmer agitator(s) operating inside the chamber



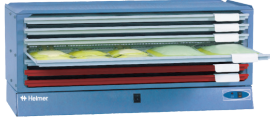
Options & Accessories

Label Holder Kit

Additional label holders may be purchased separately.

Red Designated Drawer

For use in separating platelet product. Includes label holder



Temperature Validation

Package certifies the temperature performance of the platelet incubator. This option must be ordered at the time the unit is purchased. Contact Helmer's customer service department for additional details.

Certificate of Calibration

Certifies that monitor was calibrated with NIST traceable thermometer before it left Helmer facility.

Chart Recorder Paper

4" (102mm) diameter, 0°C to 35°C, package of 52

Optional Chart Recorder Deduction

Platelet Incubators may be ordered without chart recorder. Specify when ordering.

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).



Warranty

Incubators

i.Series® / Rel.i™

5 years compressor / 2 years parts / 1 year labor at Helmer

Horizon Series™

3 years compressor / 2 years parts / 1 year labor at Helmer

Agitators

i.Series® / Horizon Series™

2 years parts / 1 year labor at Helmer

Warranties applicable in the U.S. and Canada.

For International warranty information, contact your local distributor.

