



Crest Series

Intelligent Cryogenic Storage System

Pioneer of Ergonomic Storage System

The Crest series offers intelligent and efficient liquid nitrogen repository specifically engineered for the prolonged storage of biological samples. These systems utilize advanced vacuum and insulation technology to maintain a stable cryogenic environment within the tank, thereby reducing the consumption of liquid nitrogen. Emphasizing ergonomic design and user-friendliness. The Crest series integrates comprehensive software and reliable mechanisms to provide a dependable and efficient solution for all your cryogenic storage needs.



Crest Premium

Crest Classic





Smart Operation, Effortless Mastery

Automatic Rack Turning and Positioning *

The system automatically rotates the target racks to the tank opening position before the lid is opened. This feature allows for easy access to the racks once the lid is open, which helps reduce air convection and minimize fogging.

Adjustable Rack Hoist *

The automatic lifting mechanism enables the retrieval or placement of individual boxes while the rack is suspended within the tank opening. This eliminates the need to fully remove the rack from the tank, minimizing the exposure time of innocent samples.

Racks Separator Design

Specially designed rack separators facilitate quicker and easier storage by promoting a more organized arrangement of racks, ensuring their stability.

Automatic Lid Opening *

Integrated with the software, the automated lid opening module not only reduces manual effort but also ensures that only authorized personnel can access the samples.

LN₂-Free Defogging

The Crest series is equipped with a vacuum-based airflow system, which enables efficient defogging without the need for real-time liquid nitrogen supply when retrieving samples.

* Applicable for the Premium models.

Smart Management, Intuitive Control

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Hierarchical Management System

The platform supports personalized parameter settings and alarm management, and features a hierarchical authority system for data management and sample operations.



Real-Time Information Management

The system features a 12-inch color touch screen control panel that displays real-time temperature, liquid level, daily liquid nitrogen consumption, and alarm information.



LIMS Integration

The software is designed for seamless integration with LIMS, enabling functionalities such as sample access instructions, task status indicators, and more.

Secure Storage, Uncompromised Integrity



Uniform Temperature Field

The small opening design minimizes the temperature gradient, keeping the top rack temperature as low as -190°C .



Real-Time Monitoring and Alerts

The system continuously monitors the sample environment and liquid nitrogen volume using a temperature probe and liquid level detector. It features various alarms for temperature, liquid level, time limits, and more.



Extended Static Holding Time

A low boil-off rate ensures extended static holding time at cryogenic temperatures, even after the liquid nitrogen supply is removed.

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Technical Specifications					
	Crest 400P	Crest 940P	Crest 200C	Crest 400C	Crest 940C
Model	CF400-LHC	CF940-LHC	CF200M	CF400M	CF940M
Overall Height	2,680 mm (8 ft, 9 in)	2,870 mm (9 ft, 5in) *	1,890 mm (6 ft, 2 in)	1,950 mm (6 ft, 4 in)	2,020 mm (6 ft, 7 in)
Exterior Diameter	1,160 mm (3 ft, 9 in)	1,530 mm (5 ft)	880 mm (2 ft, 10 in)	1,160 mm (3 ft, 9 in)	1,530 mm (5 ft)
Usable Height	800 mm (2 ft, 7 in)	940 mm (3 ft, 1 in)	800 mm (2 ft, 7 in)	800 mm (2 ft, 7 in)	940 mm (3 ft, 1 in)
Neck Diameter	460 mm (1 ft, 6 in)	619 mm (2 ft)	330 mm (1 ft)	460 mm (1 ft, 6 in)	619 mm (2 ft)
Neck Height	1,520 mm (4 ft, 12 in)	1,587 mm (5 ft, 6 in)	1,425 mm (4 ft, 8 in)	1,520 mm (4 ft, 12 in)	1,587 mm (5 ft, 2 in)
Gross Volume	880 L	1,835 L	430 L	880 L	1,835 L
Empty Weight	1,389 lbs. (630 kg)	2,205 lbs. (1,000 kg)	904 lbs. (410 kg)	1,279 lbs. (580 kg)	2,028 lbs. (920 kg)

* For height-constrained installations, specify the HFF-938 lifting mechanism.

Installation Information					
Minimum Installation Height (without Lifting Mechanism)	/	/	2,174 mm (7 ft, 2 in)	2,265 mm (7 ft, 5 in)	2,332 mm (7 ft, 8 in)
Minimum Installation Height (with Lifting Mechanism)	2,780 mm (9 ft, 1 in)	2,870 mm (9 ft, 5in)	2,690 mm (8 ft, 10 in)	2,780 mm (9 ft, 1 in)	2,870 mm (9 ft, 5in)
Volume of LN ₂ Under Tray	140 L	320 L	60 L	140 L	320 L
Static Evaporation Rate	12 L/day	17 L/day	7 L/day	9 L/day	14 L/day
LN ₂ Supply Pressure	≤ 22 psi				
LN ₂ Port	CGA295 external cone nut union				
Lifting Load	33 lbs. (15 kg)				
Recommended Operating Conditions	220 V, 50 Hz, 10 A, Temperature: 18 ~ 28°C, Humidity < 60 % *Products sold in each region comply with the local voltage and frequency requirements.				

Storage Capacity					
2 mL (Cryo Box)	41,600	99,200	19,500	41,600	99,200
2 mL (SBS Rack)	36,288	70,656	16,128	36,288	70,656
25 mL Blood Bag (7 Layers)	3,552	6,894	1,680	3,552	6,894
50 mL Blood Bag (7 Layers)	2,176	4,338	1,056	2,176	4,338
250 mL Blood Bag (5 Layers)	1,060	2,274	470	1,060	2,274
500 mL Blood Bag (5 Layers)	590	1,386	290	590	1,386

Accessories		
	Type	Applicable Models
HFF-948	Lifting Mechanism	CF400-LHC, CF400M
HFF-1038	Lifting Mechanism	CF940-LHC, CF940M
HFF-200	Lifting Mechanism	CF200M



Official Website



Linkedin

For more information, please visit www.genepoint.com or email us at info@genepoint.cn.

The product is only for industrial or scientific research purposes, not for medical use.

It must not be used directly or indirectly for clinical diagnosis or other unauthorized clinical medical purposes.