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Hatch series

Automated Cryogenic Repository System

Safer, Smarter, Easier

The Hatch Series features advanced automated liquid nitrogen systems designed for sample storage. Utilizing Genepoint's cutting-edge low-temperature automation technology, the Hatch series can efficiently pick up vials and manage racks at -150°C within the tank, ensuring samples remain at safe temperatures while significantly reducing liquid nitrogen consumption. Additionally, the systems seamlessly integrate with information management systems, enabling remote sample management and data synchronization.



pick up vials and manage racks
at -150°C within the tank

- reducing liquid nitrogen consumption
- ensuring samples safety

Hatch

Vial-based fully
automated system



Hatch-Lite

Rack-based
automated system



More Secure Storage

* Vial-picking is suitable for Hatch Only



Cryogenic Vial-Picking Environment

The novel design incorporates the vial-picking* platform within the tank, ensuring that samples remain at temperatures below -150°C while being retrieved, thereby safeguarding their integrity.



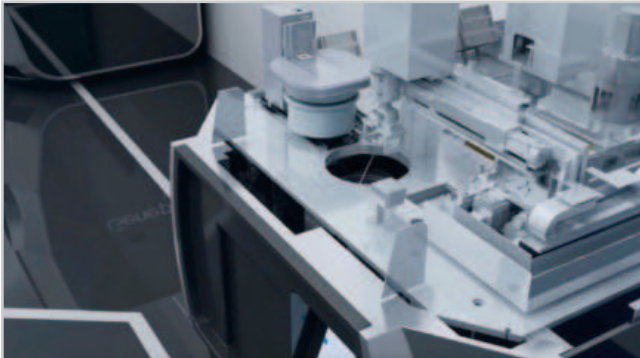
Traceability for Operation

With a hierarchical authority management system in place, the Hatch Series ensures comprehensive traceability of sample storage and retrieval procedures.



Practical Solutions for Contingency

Equipped with a UPS, the system ensures uninterrupted sample operation during power outages. It also features maintenance doors for manual emergency access and operation.



More Intelligent Management



More Intelligent Operation

The system supports various operation patterns, including vial storage with rack retrieval, rack storage with vial retrieval, batch retrieval, and defragmentation.



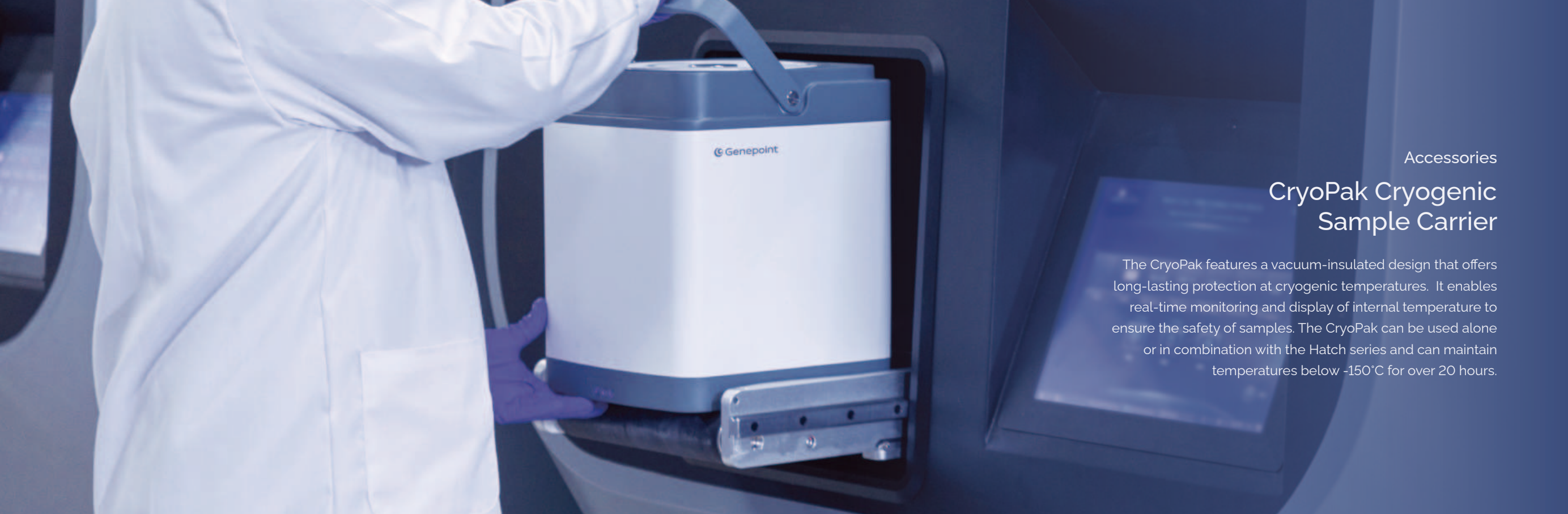
Wider Compatibility

The advanced picking mechanism is compatible with a wide range of common consumables. Hatch also supports customized storage allocation for various consumables.



Intelligent Vision Recognition

The intelligent vision recognition system offers real-time monitoring of internal operations and precise intervention.



Accessories

CryoPak Cryogenic Sample Carrier

The CryoPak features a vacuum-insulated design that offers long-lasting protection at cryogenic temperatures. It enables real-time monitoring and display of internal temperature to ensure the safety of samples. The CryoPak can be used alone or in combination with the Hatch series and can maintain temperatures below -150°C for over 20 hours.

More Convenient Operation

Effortless Operation

The system offers easy operation with instant response, eliminating the need for pre-cooling and real-time liquid nitrogen supply.

Easier Docking

The Hatch series can work as a standalone automation system. It can also integrate with other Hatch units and AGVs to create a fully automated biobank with a scalable storage array.

Lower Utility Costs

The low liquid nitrogen evaporation design significantly reduces both static and dynamic costs compared to the industry average.

Specifications				
	Hatch	Hatch L	Hatch - Lite	Hatch - Lite L
Model	ACF-1000-C	ACF-2000-C	ACF-1000-S	ACF-2000-S
Width	1,440 mm (4 ft, 9 in)	1,780 mm (5 ft, 10 in)	1,420 mm (4 ft, 8 in)	1,700 mm (5 ft, 7 in)
Depth	1,935 mm (6 ft, 4 in)	2,364 mm (7 ft, 9 in)	1,815 mm (5 ft, 11 in)	2,220 mm (7 ft, 3 in)
Height	2,470 mm (8 ft, 1 in)	2,790 mm (9 ft, 2 in)	2,480 mm (8 ft, 2 in)	2,760 mm (9 ft)
Empty Weight	2,976 lbs. (1,350 kg)	4,579 lbs. (2,077 kg)	2,645.5 lbs. (1,200 kg)	3,858 lbs. (1,750kg)
Gross Volume (L)	1,100	2,200	925	1,887
Volume of LN ₂ Under Tray (L)	170	360	140	320
Capacity	21,840 (2mL, SBS Rack)	60,672 (2mL, SBS Rack)	28,600 (2mL, Cryo Box) 19,968 (2mL, SBS Rack)	67,500 (2mL, Cryo Box) 46,080 (2mL, SBS Rack)
Temperature - Storing	≤-180°C	≤-180°C	≤-180°C	≤-180°C
Temperature - Sample Picking	≤-150°C	≤-150°C	/	/
Static LN ₂ Consumption (L/Day)	12 - 15	20 - 22	12 - 15	15 - 18
Static Holding Time (Days) *	≥12	≥20	≥10	≥16
Maximum Power (W)	2,000	2,000	1,500	1,500
Working Conditions	Power Supply: 220 V, 50 Hz, 10 A, Working Temperature: 18 - 28°C Relative Humidity: < 60%, LN ₂ Connection: CGA 295, LN ₂ Supply Pressure: 22psi, Fixed IP Address *Products sold in each region comply with the local voltage and frequency requirements.			

*Static Holding Time: the time during which the temperature is maintained below -135°C without the supply of liquid nitrogen.