

U-Vault Flex80

Smart Modular Fully Automated ULT Sample Storage



The Haier Biomedical U-Vault Flex80 is a flexible, automated storage system that stores sensitive biological samples at -80°C . Designed for applications starting at 50K+ samples to 200K+ samples for small molecule compound storage, core sample storage and biorepositories such as disease, population and research biobanks. The design ensures end-to-end protection of sample temperature.

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How it Works

The modular system starts with an independent K1 base pod.



HAB80-60KA

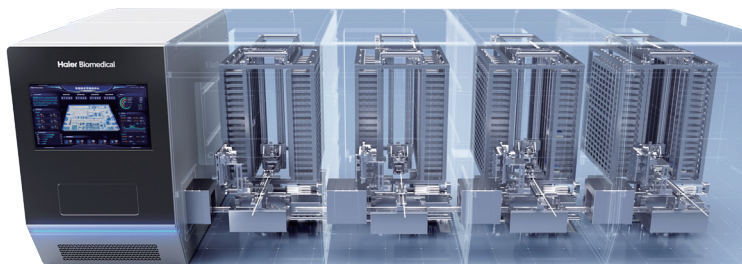


HAB80-60KB



HAB80-60KA + multi-HAB80-60KB

The base pod can be extended by adding K2 secondary pods. The interconnecting pods are sealed and completely isolated from the external environment to ensure temperature stability.



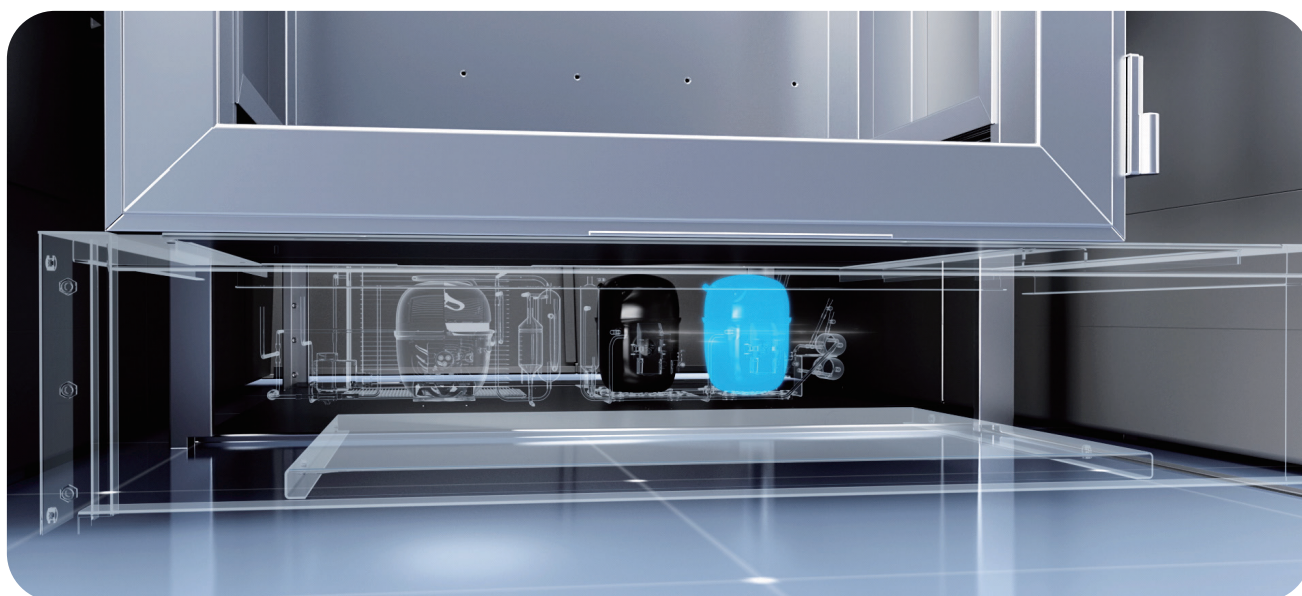
- ⊙ Samples are inputted and transferred to a storage location via the robot arm located within each pod.
- ⊙ A single box can be split and transferred to different storage units in batches



Sample Safety Ensured

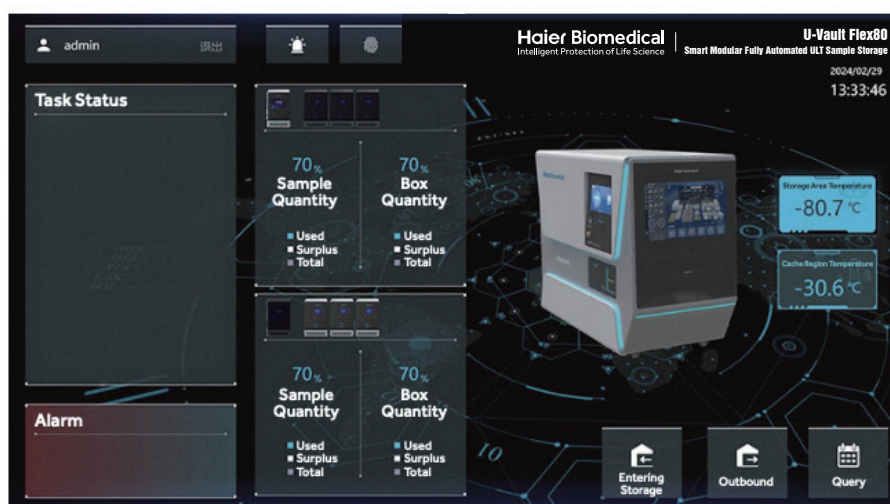
Each pod contains an independent, dual refrigeration system for added protection. If there is a compressor failure the system will maintain at -80°C .

In the event of a pod failure, samples can be automatically moved from the failed pod to an operating pod, providing space and ensuring safety.



Intuitive Real-Time Control and Monitoring System

- ⊙ Real-time automatic recording and updating throughout the process (Entry-Inventory-Dispatch)
- ⊙ Real-time monitoring of equipment operation status anytime, anywhere
- ⊙ Easy access to sample location to speed up daily tasks and inventory management





Sample Safety Ensured



Key Features

- ⊙ Uniform and stable ULT storage
- ⊙ Fully automated sample picking and tracking
- ⊙ Multiple safety measures to ensure sample safety
- ⊙ Fully featured real-time control system

System advantages

- ⊙ Proven sample integrity
- ⊙ Improve efficiency
- ⊙ Modular and flexible, adapts to storage requirements
- ⊙ Reduce wastage

Specifications

Model	HAB80-60KA	HAB80-60KB
Type	Picking tube/box	Picking box
Capacity(2ml SBS tube)	≥50K	≥50K
Exterior Dimension (W*D*H)(mm)	1080*2230*1980	1080*2230*1980
Power Supply(V/Hz)	AC220 ~ 230V50Hz	
Insulation	LBA	LBA
UPS	Optional, ensuring power supply for the automation and information modules for at least 0.5 hours in case of equipment power failure	
Cooling Type	Direct Cooling	Direct Cooling
Refrigerant	HC	HC
Refrigeration system	One for use and one for standby	One for use and one for standby

*Haier Biomedical reserves the right to change products and specifications without prior notice.