

Climate Chamber

— Compressor Series



HHS-500/810/1060

Scope of Application:

Drug stability testing, food shelf-life testing, electronic component aging testing, microbiological research, sample storage.

Innovative Features

- Exceptional energy efficiency
- Precise and uniform temperature distribution
- Stable operation under constant temperature
- Security and traceability

Qingdao Haier Biomedical Co., Ltd.

No.280 Feng Yuan Road, High-tech Zone,
Qingdao, 266111, P.R. China
E-mail: inquiry@haierbiomedical.com
Website: www.haiermedical.com



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@haiermedicalint



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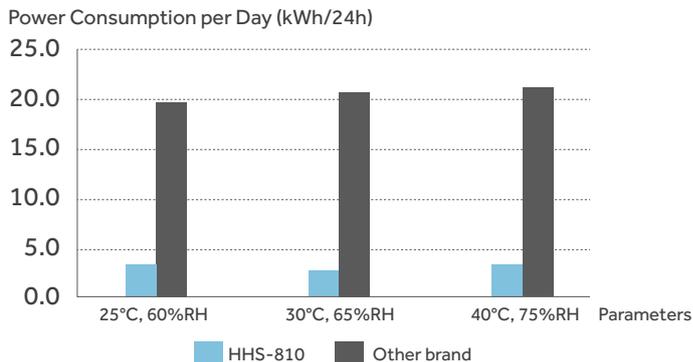
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Product Advantages



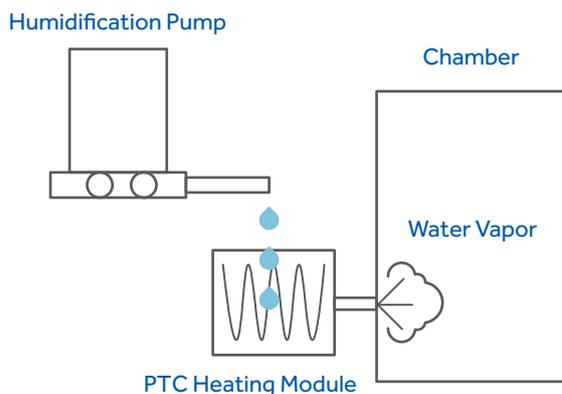
ART Intelligent Sensing and Control Technology

Intelligent dynamic control to optimize refrigerant levels, prevent evaporator frosting, and deliver excellent energy efficiency.



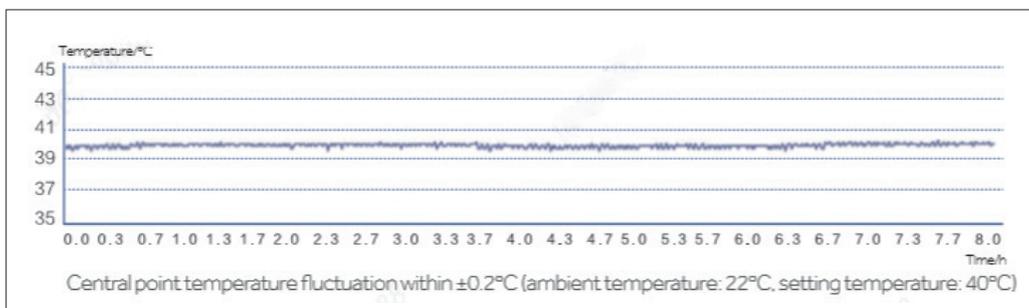
Preheats and vaporizes water droplets. Water consumption < 320 ml per day

Latest high-temperature steam injection humidification technology. Conserve both energy and water. Reduce the need for frequent water refills.



Intelligent fuzzy algorithm. Temperature fluctuation of $\pm 0.2^{\circ}\text{C}$

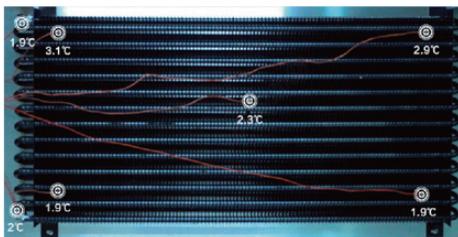
Intelligent temperature control system. PT100 temperature sensor. Precise regulation. Temperature fluctuation of $\pm 0.2^{\circ}\text{C}$.





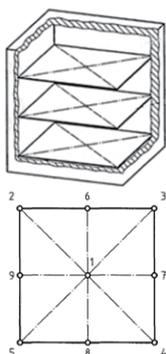
Dual evaporator system ensures a frost-free environment at a stable 4°C

Dual evaporators operate independently. Intelligent defrosting. Consistent frost-free operation and a stable internal temperature as low as 4°C.

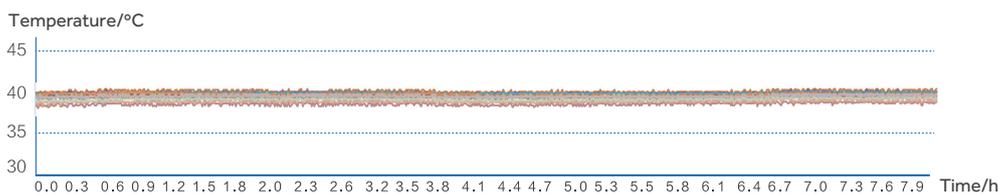


Circulating air flow system. Temperature uniformity ±0.5°C

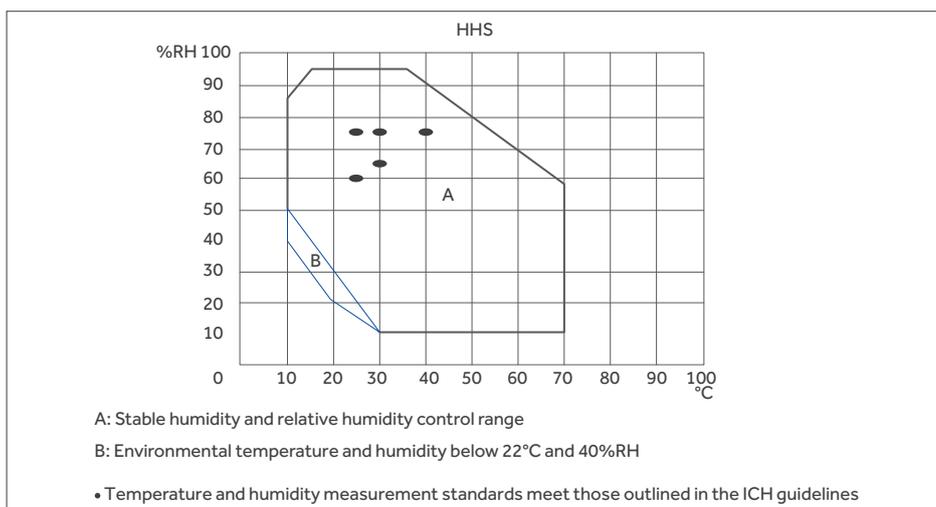
10 adjustable wind speed levels. Pre-mixed and split-flow circulation system. Lattice-type airflow structure. Temperature uniformity ±0.5°C.



DIN12880 standard 27 test points



27 test points temperature uniformity is ±0.5°C(ambient temperature: 22°C, setting temperature: 40°C)



Imported humidity sensor with a wide humidity range of 10%RH–95%RH

A wider range of humidity control to accommodate even the most stringent testing requirements.

There needs to be some clearance around the product, and the clearance on the back should be no less than 150 cm to facilitate heat dissipation and cut off the power supply in case of an emergency;

- Sample dehumidification is not applicable, which may cause the humidity to deviate from the initial setting;
 - Changes in the ambient temperature may cause the temperature and humidity to fluctuate beyond the limit;
 - In Area B, make sure the ambient temperature is lower than 22°C and the ambient humidity is less than 40% Rh.
- If the ambient temperature exceeds the range, the humidity may deviate from the setting.



Safe and traceable. Data can be traced for up to 15 years.



8G data storage. Store and track data for up to 15 years.

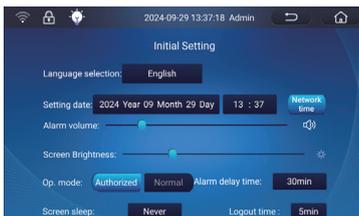


Optional IoT module. Real-time monitoring of equipment operational status.

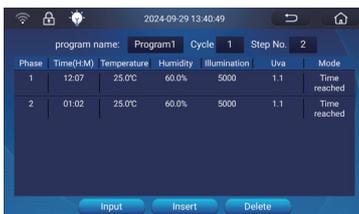
Ergonomic Design



- 7-inch LCD touch screen for easy operation. PID control algorithm ensures precise temperature control.



- **Compliant with GMP requirements, meeting audit trail**
Multi-level user management system for safety and compliance. Electronic signature and records meet US FDA PART11 certification requirements.



- Programmable mode up to 50 segments and 99 cycles. Simplify temperature and humidity settings for diverse testing and detection needs.



- **UV sensor & illuminance sensor**
ICH Q1B-compliant illumination for photostability testing [0–10000 lux, UV-A 320–400 nm, 0–1.1 W/m]
Positionable illumination cassettes with ICH-compliant UV/Vis-light sources. Independent light-dose control for UV-A and visible light with sensor.



- **Observation test hole**
Equipped with a 35-mm diameter test hole on the left side of the chamber, allowing easy observation and recording of the test conditions inside to meet various testing requirements.



- **Optional lock module**
Provides two secure unlocking options: electromagnetic and mechanical locks to ensure the safety of test samples.

Specifications

Model		HHS-500	HHS-810	HHS-1060	
Construction	Chamber Volume (L)	515	810	1070	
	Interior Chamber	Stainless Steel	Stainless Steel	Stainless Steel	
	Exterior Chamber	Coated Cold Rolled Steel	Coated Cold Rolled Steel	Coated Cold Rolled Steel	
	Access Port	35mm Diameter	35mm Diameter	35mm Diameter	
Dimensions	Net/Gross Weight	kg	248/305	320/383	360/430
		lbs	546.75/672.41	705.48/844.37	793.66/947.99
	Interior Dimensions (W*D*H)	mm	650*630*1260	1100*590*1260	1350*630*1260
		in	25.61*24.82*49.64	43.34*23.25*49.64	53.19*24.82*49.64
	Exterior Dimensions (W*D*H)	mm	1300*1000*1858	1380*1050*1858	1750*1000*1858
		in	51.22*39.40*73.21	54.37*41.37*72.89	68.95*39.40*73.21
	Packing Dimensions (W*D*H)	mm	1080*1060*1990	1495*1010*1990	1780*1050*1990
		in	42.55*41.76*78.41	58.9*39.79*78.41	70.13*41.37*78.41
Container Load (20'/40'/40'H)		10/22/22	7/15/15	6/13/13	
Shelves	Dimension (W*D)(mm)	598*528	1048*528	1298*528	
	Shelves qty (standard/max.)	2	2/16	2	
	Max. load per shelf	45	45	45	
	Structure	Slide Rail, Adjustable	Slide Rail, Adjustable	Slide Rail, Adjustable	
Electrical	Voltage/ Frequency (V/Hz)	220-240/50/60	220-240/50/60	220-240/50/60	
	Power (W)	2000	2000	2600	
	Daily Consumption at 25°C & 40%RH (kWh)	4.3	4.3	6.5	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	
	Display	7 "LCD Screen	7 "LCD Screen	7 "LCD Screen	
Temperature Parameter	Setting Range (°C)	without Humidity without Light: 0-70°C with Humidity without Light: 10-70°C with Humidity with Light: 10-60°C	without Humidity without Light: 0-70°C with Humidity without Light: 10-70°C with Humidity with Light: 10-60°C	without Humidity without Light: 0-70°C with Humidity without Light: 10-70°C with Humidity with Light: 10-60°C	
	Control Precision (°C)	±0.1	±0.1	±0.1	
	Temperature Uniformity at 25°C	±0.5	±0.5	±0.5	
	Temperature Fluctuation at 25°C	±0.2	±0.2	±0.2	
	Sensor	PT100*1	PT100*1	PT100*1	
	30 Seconds Recovery Time after Door Opening at 40°C (min)	≤4min	≤4min	≤4min	
Humidity Parameter	Humidity Setting Range (%RH)	10-95	10-95	10-95	
	Humidity Setting Accuracy (%RH)	0.1	0.1	0.1	
	Humidity Fluctuation at 40°C & 75%RH (%RH)	±2	±2	±2	
	Daily Water Consumption (ml)	240	320	400	
Optional	Electromagnetic Lock (Password)	Y	Y	Y	
	Printer	Y	Y	Y	
	IoT Module	Y	Y	Y	
Standard	Remote Alarm Interface	Y	Y	Y	
	RS485	Y	Y	Y	
	Water Level Alarm	Y	Y	Y	

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