Haier Biomedical
Intelligent Protection of Life Science

Constant Climate Chamber

Scope of Application:

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

- Exceptional Energy Efficiency
- Stable Operation Under Constant Temperature
- Security and Traceability
- Precise and Uniform Temperature Distribution



HHS-260 pro HHS-500 pro HHS-810 pro HHS-1060 pro

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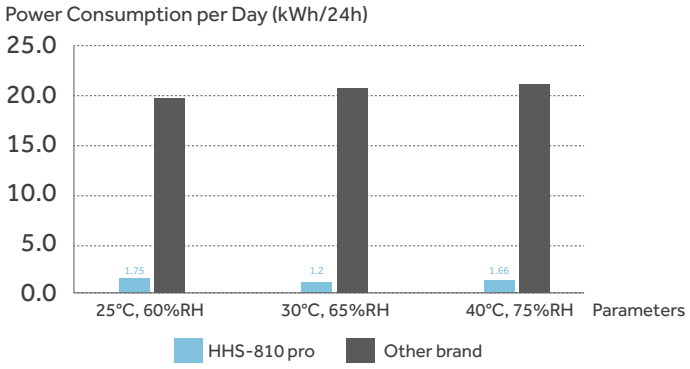
Oct, 2026

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Product Advantages

ART Intelligent Sensing and Control Technology

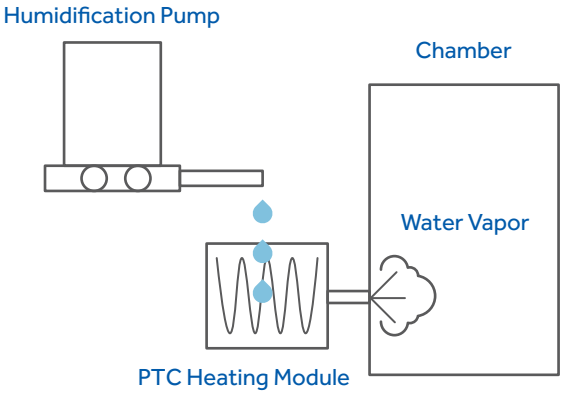
1. Pre-mixed lattice circulating air duct in the inner chamber combined with PID algorithm control delivers excellent temperature and humidity performance, ensures stable long-term operation, and meets pharmacopoeia requirements of multiple countries.
2. Equipped with a high-efficiency intelligent variable-frequency compressor and premium thermal insulation system, it achieves over 80% energy savings compared with conventional equipment, significantly reducing long-term operating costs.



*Haier Biomedical lab test result

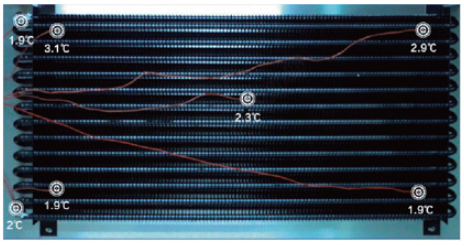
Preheats and vaporizes water droplets. Water consumption < 320 ml per day

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



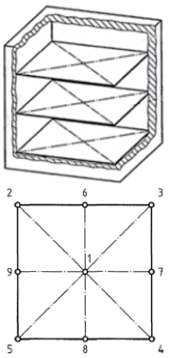
Dual evaporator system ensures a frost-free environment at a stable 4°C

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

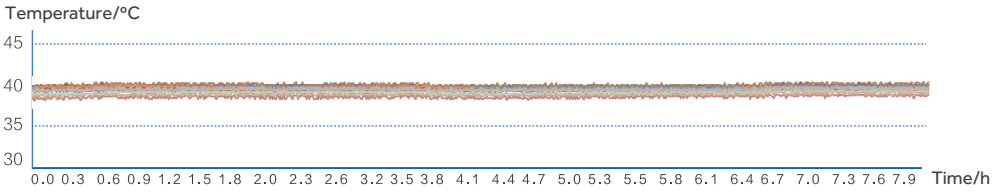


Circulating air flow system. Temperature uniformity ±0.2°C

10 adjustable wind speed levels. Pre-mixed and split-flow circulation system. Lattice-type airflow structure. Temperature uniformity ±0.2°C.

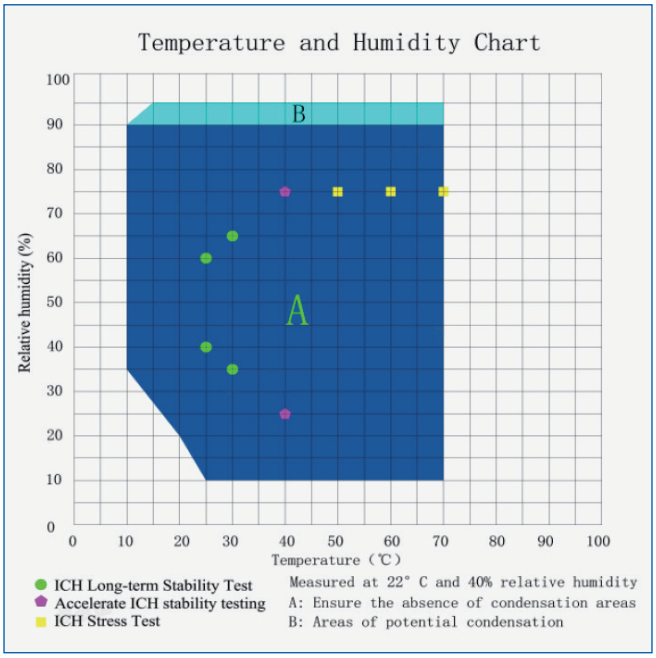


DIN12880 standard 27 test points



27 test points temperature uniformity is ±0.2°C(ambient temperature: 22°C, setting temperature: 40°C)

*Above data based on HHS-810pro



- 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

ALCOA+ Data Integrity – GMP/GCP Compliant

- Full compliance with ALCOA+ principles – attributable, legible, contemporaneous, original, accurate, complete, consistent, enduring, available
- Complete data traceability with original records permanently retained – meets global pharmaceutical data integrity mandates

21 CFR Part 11 Compliance – Audit-Ready Security

- Three-tier user access control + compliant e-signatures
- Permanent, immutable audit trails for every operation
- Electronic records fully satisfy FDA 21 CFR Part 11 – stress-free regulatory inspections

One-Click Batch Records – Inspection & Submission Ready

- Automatically outputs complete batch records with drug info, trend curves, and logs
- Supports sub-batch splitting for flexible reporting
- Ready for registration filings and unannounced inspections – eliminates manual paperwork and transcription errors

Specifications

Model		HHS-260pro	HHS-500pro	HHS-810pro	HHS-1060pro
Structure	Capacity (L)	260	497	786	1032
	Chamber Material	SUS304			
	Housing Material	Coated cold-rolled steel and Galvanized steel			
	Test Port (mm)	35			
Electricity	Power Supply	220~240V 50/60Hz			
	Rated Power (W)	1500	1800	2000	2600
	LED Power (W) (option)	2			
Dimension	External Dimension (WDH) (mm)	665*840*1585	920*970*1855	1380*930*1855	1630*970*1855
	Internal Dimension (WDH) (mm)	520*520*1000	650*615*1260	1100*575*1260	1350*615*1260
	Package Dimension (WDH) (mm)	740*925*1730	1060*1060*2010	1495*1010*1990	1800*1065*2000
	Water Carboy (L) (option 5L)	25L / Width: 350mm			
	Gross Weight (kg)	175	292	371	438
	Net Weight (kg)	150	241	310	360
	Container Load (20/40/40H)	18/39/39	10/22/22	7/15/15	6/13/13
Shelves	Shelves STD/MAX	3/13	3/16	3/16	3/16
	Shelf Size (W*D) (mm)	495*465	623*528	1073*528	1323*528
Temperature	Temperature Range (°C)	0...70			
	Temperature Range (humidity) (°C)	10...70			
	Temperature Range (light) (°C)	0...60			
	Temperature Range (humidity&light) (°C)	10...60			
	Temperature Accuracy (K)	0.1			
	Temperature Sensor	PT100			
Humidity	Humidity Range (%RH)	10...95			
Technical Performance	25°C/60%RH Temperature Fluctuation (K)	±0.05	±0.05	±0.15	±0.2
	40°C/75%RH Temperature Fluctuation (K)	±0.05	±0.05	±0.15	±0.1
	25°C/60%RH Temperature Uniformity (K)	±0.4	±0.2	±0.2	±0.2
	40°C/75%RH Temperature Uniformity (K)	±0.5	±0.3	±0.2	±0.2

Model		HHS-260pro	HHS-500pro	HHS-810pro	HHS-1060pro
Technical Performance	25°C/60%RH Humidity Uniformity (%RH)	±2	±2	±2	±2
	40°C/75%RH Humidity Uniformity (%RH)	±2	±2	±2	±2
	25°C/60%RH Humidity Fluctuation (%RH)	±2.5	±1	±1	±1
	40°C/75%RH Humidity Fluctuation (%RH)	±1	±1	±1	±1
	25°C/60%RH Recovery Time After 30s Door Opening (min)	1	1	1	1
	40°C/75%RH Recovery Time After 30s Door Opening (min)	3	4	4	5
	Optional Light Range (Lux)	0-10000			
	Optional Light Deviation (Lux)	±500			
	Optional UV Wavelength (nm)	320-400			
	Optional UV Power (W/m²)	0-1.7			
	Noise Level (dB)	50			
	5°C Power Consumption	2.7kW·h/d	2.9kW·h/d	3.2kW·h/d	3.25kW·h/d
	25°C 60%RH Power Consumption	1.45kW·h/d	1.65kW·h/d	1.75kW·h/d	1.9kW·h/d
	30°C 65%RH Power Consumption	1.1kW·h/d	1.1kW·h/d	1.2kW·h/d	1.25kW·h/d
	40°C 75%RH Power Consumption	1.4kW·h/d	1.54kW·h/d	1.66kW·h/d	1.78kW·h/d
Accessories	RS485	Standard			
	USB	Standard			
	Printer	Optional			
	Illuminating	Optional			
	Light Module (photostability)	Optional			
	Electromagnetic Lock	Optional			
	Automatic Water Supply	Optional			
	Water Recycle System	Optional			
	Shelf Slide Rail	Optional			
	Stainless Steel Wire Shelves	Optional			
	IOT Module	Optional			

All technical specifications are measured at an ambient temperature of 22±3°C,
with a power supply voltage variation of ±10%, under no-load conditions with standard equipment configuration.
Humidity performance data are obtained under two operating conditions: 25°C/60% RH and 40°C/75% RH, in compliance with DIN 12880 and Haier internal standards,
with testing carried out in Haier laboratories. All values presented are average measurements, and the data for this product series are typical values