



Your Haier Biomedical Partner



Comprehensive Equipment& Solutions

Biopharma Solutions for a Better Tomorrow

Advancing Biopharma Together

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Jul, 2026



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International



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Note: If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.

Everlasting Haier Biomedical

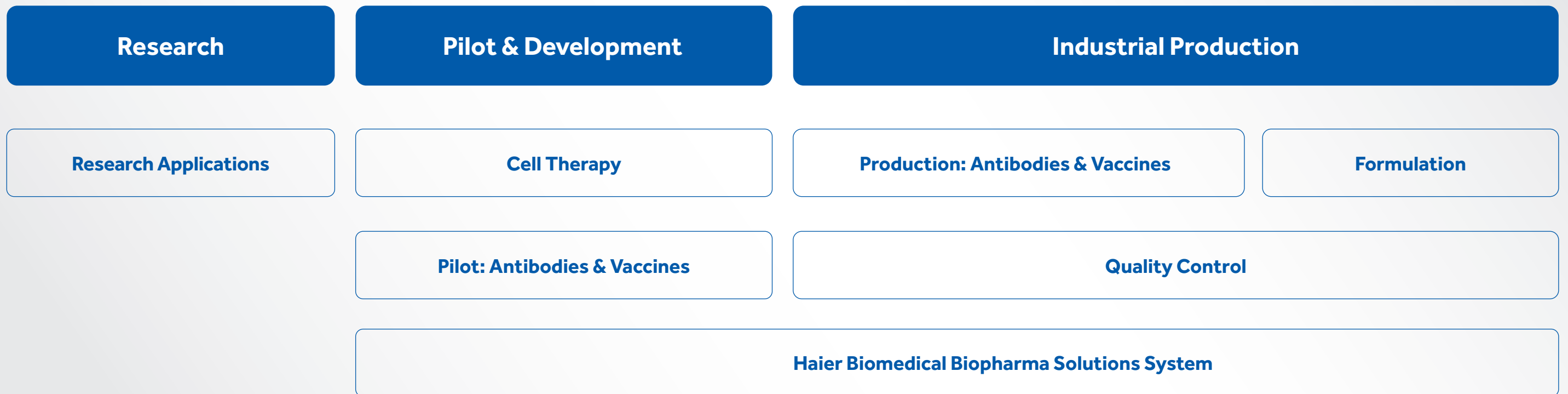
Haier Biomedical, established in 2005, is part of Haier Group’s healthcare strategy, operating within its Incaier life science segment. As a global provider of life science and medical innovation solutions, the company delivers comprehensive digital platforms and a wide range of products and services across smart laboratories, compliant pharmaceuticals, digital hospitals, public health, and blood management.

Table of Content

1,595 patents and 392 software copyrights demonstrating continuous innovation and leadership in life sciences technology.	32 internationally recognized achievements technological breakthroughs acknowledged as leading in their field.
45 national and provincial-level awards reflecting sustained excellence in scientific and industrial innovation.	40 global and industry standards shaped contributing to international, national, and association-led technical standards.
National Manufacturing Champion recognized as a single champion enterprise in advanced manufacturing.	National Intellectual Property Advantage Enterprise showcasing strength in intellectual property and innovation.
National Science and Technology Awards the only company in the industry to receive both first and second prizes for scientific and technological innovation.	China Industrial Grand Award the highest-level recognition for industrial innovation in China, awarded exclusively in this sector.

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Haier Biomedical Biopharma Solutions



HEBR MES:

Connecting People, Processes & Compliance

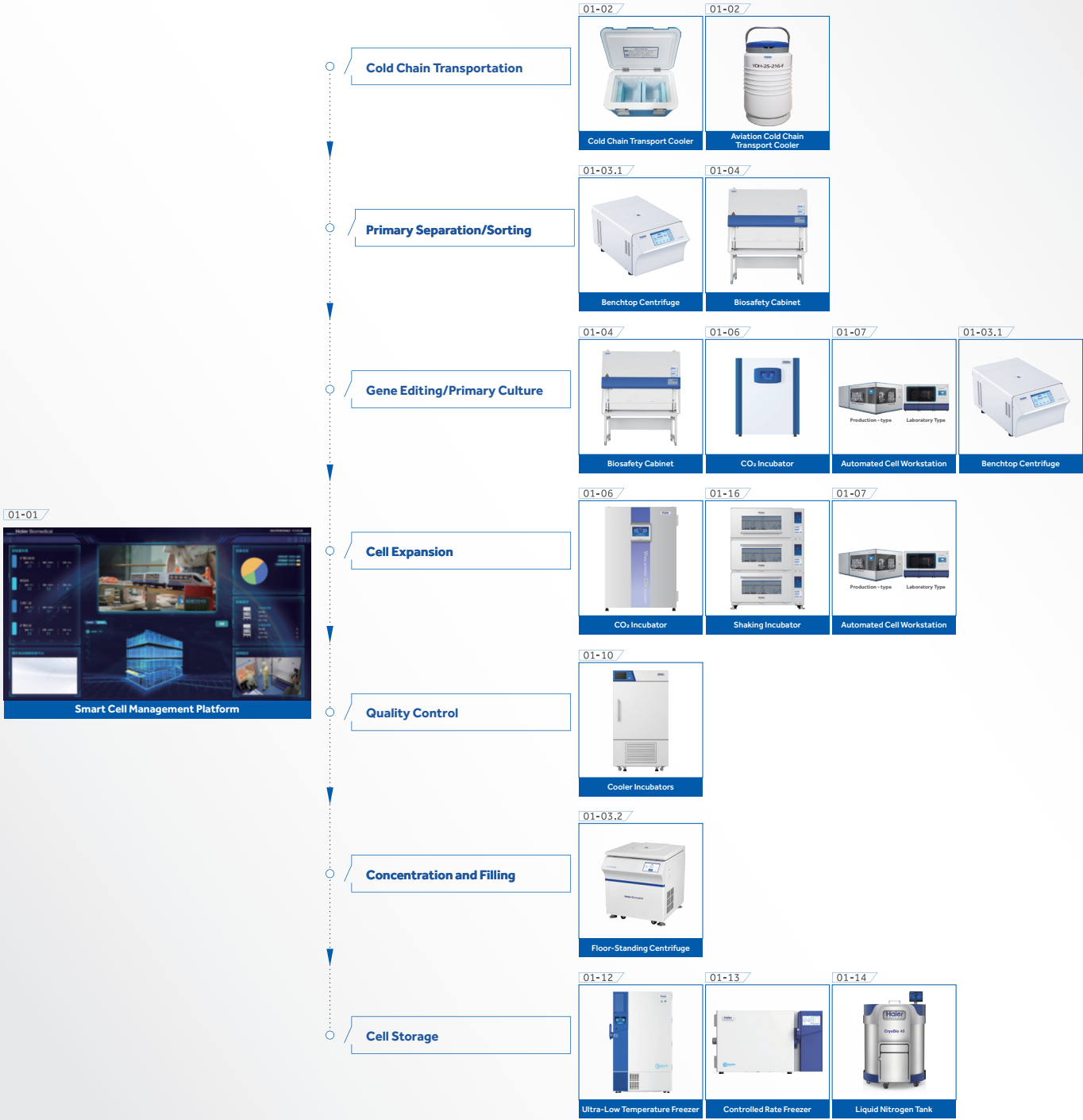
Operations Dashboards	
Recipe Management	
Step Management	Process Operations
Section Management	Process
Personnel Management	
Department Management	User Management
Role Management	Position Management
System Modeling	Audit Trail

Electronic Batch Records		Data Reports	
Production Planning	Production Management		Quality Management
Order Creation	Work Flow Management	Batch Management	Exception Reporting
Plan Templates	Batch Execution	Production Monitoring	Disposal Results
	Process Step Execution	Release Management	
Material Management	Equipment Management		Environmental Management
Material Maintenance	Equipment Ledger	Equipment Configuration	Temperature and Humidity
Material Traceability	Equipment Maintenance	Alarm Management	Environmental Monitoring: Particles & Microbes
System Settings	Data Backup	Clock Synchronization	

01

From Lab to Large-Scale Production

Solution Overview



End-to-End Cell Therapy Solutions

Solution Value

Guaranteed Process Quality

Fully automated preparation eliminates manual error and ensures consistent results
Closed, single-use systems minimize contamination risk and safeguard product integrity
Digital traceability provides confidence in compliance and audit readiness



Improved Work Efficiency and Economic Benefits

Reduce batch record completion times by 30%+ for faster turnaround
Free up staff time by cutting manual workload
Resolve deviations up to 60% faster, preventing costly production delays and saving millions annually



Full-Process Control and Compliance

Guided electronic SOPs reduce error rates and standardize operations
Precise sample control ensures reliability across every batch
Electronic batch records provide a complete, compliant audit trail
GMP compliance built into every stage for global regulatory confidence

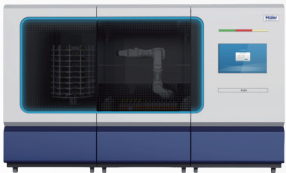


Automated Cell Workstation

01-07



Production - type



Laboratory Type

Automates high-throughput workflows to save time and reduce manual error
AI-powered image recognition provides real-time monitoring and quality assurance
Grade A clean environment ensures compliance and product safety
Flexible protocol library supports diverse applications with customizable SOPs

Data Source: Haier Biomedical User Experience Center

Water-Jacketed CO₂ Incubator

01-05



Model: HCP-188W

Application: Culture of temperature-sensitive cells

- Features:
- 1. Optimized cell growth environment with precise temperature and concentration control
 - 2. Multiple air circulation filtration technology maintaining Class 100 clean environment
 - 3. Full process monitoring with real-time data viewing

Shaking Incubator

01-16



Model: HYP-260Q/HYP-380Q
HYP-260C/HYP-380C

Application: Provides dynamic culture environment for cells/microorganisms

- Features:
- 1. Precise control with stable temperature field
 - 2. Precision manufacturing for stable operation
 - 3. Smart interaction for convenient operation

Cooler Incubators

01-10



Model: HSP-160/260

Application: Culture of psychrophilic microorganisms

- Features:
- 1. Stable temperature control
 - 2. Wide temperature range with precise control
 - 3. User-friendly 7-inch LCD screen operation

Controlled Rate Freezer

01-13



Model: CJ-L19/CJ-L37/CJ-L54

Application: Freezing treatment prior to cryopreservation of cells

- Features:
- ① Professional freezing protocols for optimal cell cryopreservation
 - ② Large capacity + one-key freezing + optimized human - machine interface design for high freezing efficiency
 - ③ Full-process traceable data for intelligent control and peace of mind

Solution Product Configuration

Smart Cell Big Data Management Platform

01-01



Update to customer benefits:
Customizable modules tailored to your workflow needs
Modular design for fast implementation and easy scaling
Simple to maintain and validate, reducing operational burden
Fully compliant with international standards (21 CFR Part 11, GAMP5) for data integrity and regulatory confidence

Cell Expansion – CO₂ Incubator

01-06



Model: To be determined based on user requirements
Application: Culture and expansion of cells from various sources
Stable culture conditions ensure reliable cell growth
Rapid recovery reduces downtime and risk of culture loss
Accurate CO₂ control delivers consistent results across experiments
Advanced sterilization safeguards cell quality and reduces contamination risks

End-to-End Cell Therapy Solutions

Integrated Solutions for Cell Thawing and Expansion

05/06

Cold Chain Transport Cooler

01-02



Model: Cold Chain Transport Cooler

Application: Cold chain transportation of samples, reagents, blood products, specimens, and pharmaceuticals

- Features:
- 1. High-strength material, impact-resistant, non-toxic, and UV-resistant
 - 2. Professional sealing design with no cold leakage and long-lasting insulation
 - 3. Dedicated partitioned ice box placement for easier operation

Benchtop Centrifuge

01-03.1



Model: LX-185T100R

Application: Mainly used for collection, separation, and purification of cells, DNA/RNA samples

- Features:
- 1. Equipped with multiple rotors for high centrifugation efficiency
 - 2. Ultra-high centrifugal force with clearly visible layering
 - 3. Low-noise stable operation for optimal centrifugation experience

Floor-Standing Centrifuge

01-03.2



Model: LX-75L2400R

Application: Mainly used for large-scale, production-type cell and microorganism purification scenarios

- Features:
- 1. Minimal operation, fast temperature control, saving time and effort
 - 1. Direct sample temperature control to reduce temperature deviation
 - 1. Corrosion-resistant rotor with extended lifespan

Biosafety Cabinet

01-04



Model: To be selected based on user biosafety level

Application: Creates negative pressure environment during biological operations

- Features:
- 1. Constant air velocity
 - 2. UV lamp with one-key scheduling
 - 3. V-shaped inlet/outlet for unobstructed airflow

Ultra-Low Temperature Freezer

01-12



Model: Full temperature range and full series available

Application: Low-temperature storage of products/samples

- Features:
- 1. Ultra-Low temperature freezers/cold rooms covering full temperature ranges and series
 - 2. HC energy-saving and environmentally friendly with low energy consumption
 - 3. Stable performance, high reliability, excellent temperature uniformity, compliant with GMP requirements

Liquid Nitrogen Tank

01-14



Model: To be selected based on user requirements

Application: Ultra-Low temperature storage of cell products/samples

- Features:
- 1. New terminal data storage for 10 years
 - 2. 30-year usage cycle with more stable temperature
 - 3. Supports fingerprint and card-swiping for lid unlocking, providing comprehensive sample protection
 - 4. Unique exhaust structure to prevent frost formation

Solution Overview



Solution Value

Guaranteed Process Quality

Fully automated preparation process, preventing manual deviations and batch-to-batch variability
Single-use, closed preparation system, reducing contamination risks
Digital management with traceable data



Improved Work Efficiency and Economic Benefits

Batch record filling time reduced by over 30%
Reduced employee workload
OOS handling time shortened by over 60%, avoiding annual economic losses of up to millions through timely resolution

Full-process Control and Compliance

SOP Electronic Operation Guidance
Precise Sample Control and Error Prevention
Electronic Batch Records
GMP Compliance System



Data Source: Haier Biomedical User Experience Center

Integrated Solutions for Cell Thawing and Expansion

Controlled Freezing and Thawing for Scalable Biopharma

Solution Product Configuration

Smart Cell Big Data Management Platform

02-01



Functional modules customizable as needed
4 types of software, modular construction, easy to implement, use, maintain, and validate
21CFR Part 11 White Paper
GAMP5 Validation System

Ultra-Low Temperature Freezer

02-02



Model: Full temperature range and full series available
Application: Low-temperature storage of products/samples
Features:
1. Ultra-Low temperature freezers/cold rooms covering full temperature ranges and series
2. HC energy-saving and environmentally friendly with low energy consumption
3. Stable performance, high reliability, excellent temperature uniformity, compliant with GMP requirements

Liquid Nitrogen Tank

02-03



Model: To be selected based on user requirements
Application: Ultra-Low temperature storage of cell products/samples
Features:
1. New terminal data storage for 10 years
2. 30-year usage cycle with more stable temperature
3. Supports fingerprint and card-swiping for lid unlocking, providing comprehensive sample protection
4. Unique exhaust structure to prevent frost formation

CO₂ Incubator

02-05



Model: To be determined based on user requirements
Application: Culture and expansion of cells from various sources
Features:
1. Precise temperature control, rapid temperature recovery after door opening
2. IR infrared sensor for accurate CO₂ concentration control
3. High-efficiency sterilization with 99.999% sterilization rate

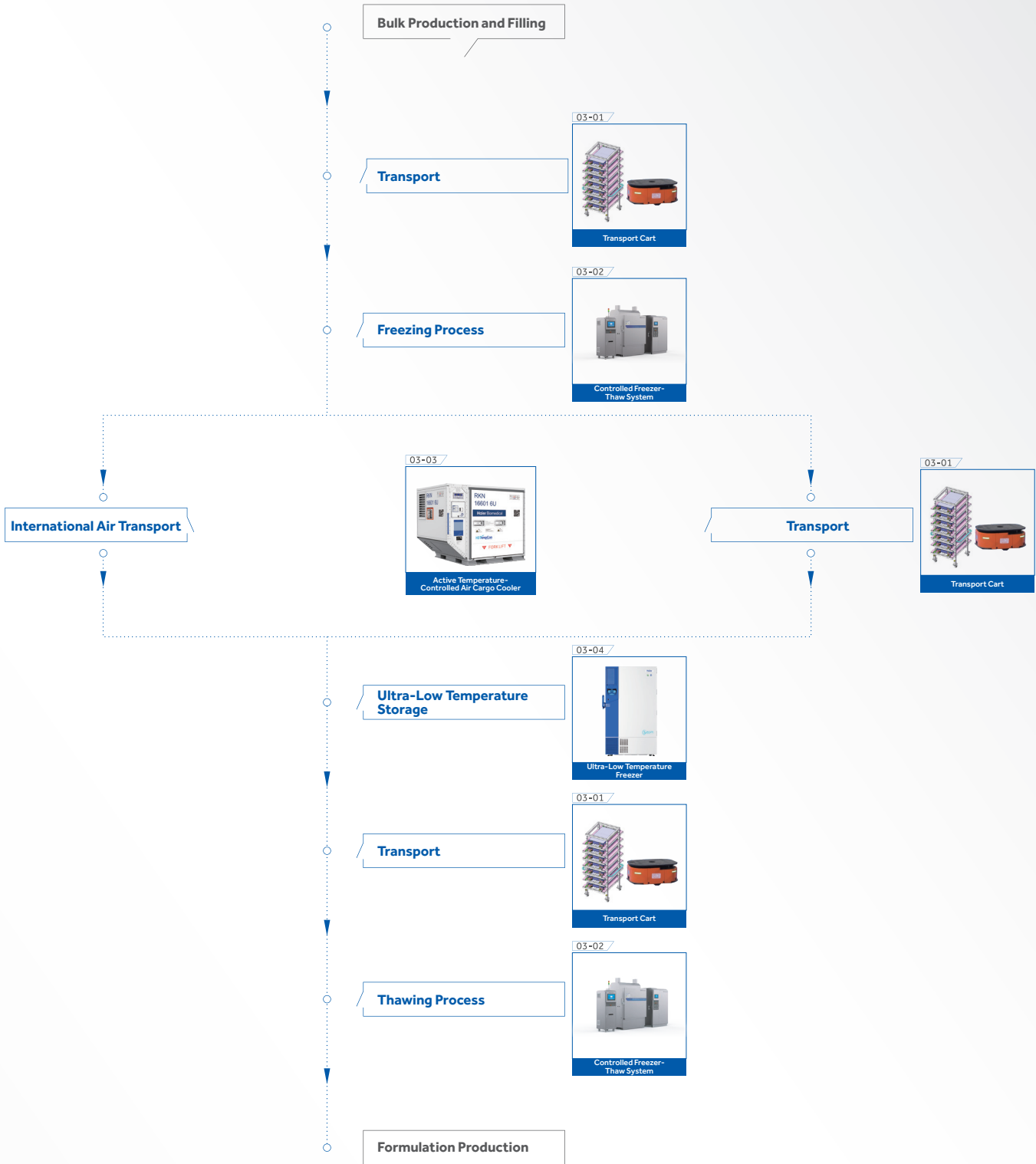
Biosafety Cabinet

02-06



Model: To be selected based on user biosafety level
Application: Creates negative pressure environment during biological operations
Features:
1. Constant air velocity
2. UV lamp with one-key scheduling
3. V-shaped inlet/outlet for unobstructed airflow

Solution Overview



Controlled Freezing and Thawing for Scalable Biopharma

»» Solution Value

High Economic Benefits

Reduce material loss compared to traditional freezer-thaw methods, saving significant costs
Increase batch output value by 10%+, scaling production capacity and ROI



High Production Efficiency

Faster processing times accelerate throughput
Lower manual workload improves staff productivity
Enhanced operator safety reduces risk during handling



High Compliance Rate

Full traceability across every batch ensures audit readiness
Scalable, linear processes support smooth scale-up and validation
Stable, reproducible quality safeguards consistency from research to commercial production



»» Solution Product Configuration

Transport Cart

Application: For transporting products after filling into bags/boxes
Features: Ergonomic design for easy pushing/pulling transfer, professional positioning device ensures transportation safety

Controlled Freezer-Thaw System



Model: HDR-80W300T
Application: For pre-freezing of products in low-temperature storage and thawing before formulation. Single batch full-load processing capacity of a full-load batch capacity of up to 300 L, typically used for freezer-thaw processing of liquid biological products in biopharmaceuticals (such as bulk biologic drug-substance solutions, including monoclonal antibodies and vaccines).
Features:
1. Program-controlled temperature change rate, controllable and reproducible freezer-thaw process
2. Freezer-Thaw process can be scaled up;
3. Full-process traceability with real-time temperature curve recording, compliant with GMP requirements

Active Temperature-Controlled Air Cargo Cooler



Model: RKN-AT1
Application: Suitable for international air cold chain logistics scenarios, providing strict temperature control for pharmaceuticals, vaccines, biological products, APIs, etc.
Features:
1. Sturdy structure, advanced technology, reliable quality and stable performance to meet cargo quality requirements;
2. Excellent temperature uniformity inside cooler with real-time data recording function to improve supply chain visibility

Ultra-Low Temperature Freezer/Cold Room



Model: Full temperature range and full series available
Application: Low-temperature storage of products/samples
Features:
1. Ultra-Low temperature freezers/cold room covering full temperature ranges and complete series
2. HC energy-saving and environmentally friendly with low energy consumption
3. Stable performance, high reliability, excellent temperature uniformity, compliant with GMP requirements

02
Quality Control & Testing Solutions



Integrated LIMS Solutions for Biopharma QC

LIMS System - Business Process

Manages business processes and experimental data, connects with other systems, instruments, reagents and users to enhance corporate compliance and production efficiency



LIMS System - Functional Modules

Testing Process Management					
Inspection Request	Label Printing	Sample Collection	Sample Receiving	Task Assignment	Report Approval
Testing & Analysis	Automatic Calculation	Automatic Determination	Data Approval	Sample Distribution	Sample Registration Plan
Report Release	Residual Sample Handling	Retesting	Resampling	Report Preparation	Temporary Additional Samples
Sampling			Animal Management		
Sampling Points	Sampling Plan	Sampling List	Testing & Analysis	Animal Procurement	Cage Management
Data Approval	Environmental Reports	Residual Sample Handling	Trend Analysis	Feeding Management	Experimental Records
Customer Management			Strain/Virus Management		
Basic Customer Information	Customer Rating	Customer Recharge	Order Tracking Records	Passage	Withdrawal
Customer Appointments	Online Ordering	Entrustment form Printing	Progress Inquiry	Destruction	
Report Downloads	Report Authenticity Verification	Satisfaction Survey	Complaints & Appeals	Method Validation	
Retained Sample Management			Event Management		
Retained Sample Registration	Retained Sample Collection	Retained Sample Receiving	Retained Sample Observation	Event Registration	Event Deviation
Retained Sample Withdrawal	Retained Sample Transfer	Retained Sample Inventory	Expiration Handling	Event Investigation	Event Review
Basic Data			Large-Screen Display		
Quality Indicators	Registration Template	Label Template	Report Template	Digital Twin	Message Notification
Workflow	Menu Management	System Coding	Dictionary Management	Instrument Status	Abnormal Alarms
Instrument & Equipment			Quality Statistics		
Basic Information	Calibration Plan	Calibration Records	Single Value Moving Range Control	Mean Standard Deviation Control	Mean Range Control Chart
Maintenance Plan	Maintenance Records	Repair Records	Cumulative Control Chart	Process Capability Control Chart	Exponentially Weighted Control Chart
Interim Checks	Instrument Reservation	Usage Records			
Reagents & Consumables & Standards			Safety Management		
Material Information	Inventory Management	Storage Inventory	Access Control Management	AI Monitoring	Energy Consumption Management
Withdrawal and Return	Preparation and Calibration	Destruction Processing			
Cell Bank			System Assurance		
Cell Information	Cryopreservation	Thawing	Audit Trail	Audit & Verification	Electronic Signature
Passage	Medium Change	Inventory Reminder	Organizational Structure	Personnel Accounts	Role Permissions

Smart Gateway & Smart Socket



ELN

- Original Record Form Template
- Operation Step Control
- Instrument Data Collection
- Automatic Calculation /Determination



Workstation Instrument Parsing Files



SDMS Instrument Raw Data Management

- Instrument File Control
- Instrument Files Backup



Direct Serial Port Instrument Data Collection



Integrated Culture Media Solutions for QC

Haier Biomedical provides a complete solution for microbial culture media testing, from incoming inspection through to sterility validation. Each stage is designed to ensure accurate results, reduce contamination risk, and safeguard product quality.

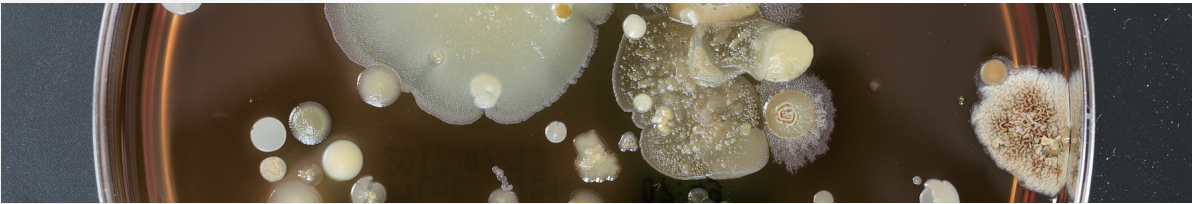
Solution Overview

Qualified incoming inspection of culture media

04-01 Settle-plate monitoring, active air sampling, microbial enumeration tests, and tests for specified microorganisms



Surface Bacteria



Sample Preparation and Dilution



Product Sterility Testing



Thawing Process



Post-Sampling Cultivation

Solution Value

High Economic Benefits

Improved recovery rates reduce false negatives, ensuring test accuracy
Lower error rates minimize costly product losses
Efficient processes reduce QA/QC costs across batches



High Usage Efficiency

Cut QA sampling time by 50%
Reduce QC testing time and material use by 50%
Distinct colony formation simplifies analysis and counting



High Compliance Efficiency

Complete certificates and validation documents for regulatory assurance
Stable, reproducible results minimize batch variability
GMP-compliant processes ensure global audit readiness



Solution Product Configuration

90mm Plate Culture Media

04-01

Models: TSA\SDA, R2A, blood agar plates, etc.
Application: Environmental and airborne bacteria monitoring, colony counting, microbial limit testing
Benefits: Improved recovery rates, antibiotic resistance indication, optimized nutrient balance for more reliable results



55mm Plate Culture Media

04-02

Models: TSA\SDA, etc.
Application: Microbial monitoring on smooth surfaces
Benefits: Enhanced detection sensitivity and accurate colony counts with reduced variability



Buffer Solution

04-03

Models: 0.1% peptone, pH7.0 sodium chloride peptone buffer
Application: Sample preparation and dilution
Benefits: Stable formulation reduces experimental error, with extended storage life improving efficiency by up to 20%



Sterility Testing Culture Media

04-04

Models: TSB\FTM
Application: Product sterility testing
Benefits: Accurate microbial growth detection with optimized formulations that improve sensitivity and reliability by 20%



Digital QC Laboratory Management

The LIMS system streamlines the entire laboratory testing workflow — from inspection requests and sample handling through to analysis, approval, and reporting. It ensures full traceability, reduces manual workload, and enhances compliance across QC processes.



»» Solution Value



Process Control

Digital oversight of all QC testing steps ensures accuracy and consistency
Automated deviation management improves reliability of results



Resource Management

Integrated tracking of personnel, equipment, and reagents
Optimized scheduling reduces delays and maximizes productivity



Compliance & Data Integrity

Electronic SOPs and audit-ready records ensure 21 CFR Part 11 and GMP compliance
Traceable data builds confidence in regulatory inspections



Operational Value

Automatic calculation reduces data analysis time by 80%
Report preparation time reduced by 80% for faster turnaround
Overall testing cycle shortened by 10%, accelerating batch release

Data Source: Haier Biomedical User Experience Center

»» Solution Product Configuration



»» LIMS System

- Comprehensive coverage: Manages all QC processes, resources, and quality activities in one platform
- Flexible access: Accessible on computers, tablets, and mobile devices for real-time data entry and monitoring
- Seamless integration: Connects with instruments, reagents, and environmental sensors for end-to-end digital QC
- Customizable modules: Adaptable to fit different lab needs and workflows
- Global compliance: Fully validated to international standards (21 CFR Part 11, GAMP5) for audit readiness



TOC Testing Solution for Pharmaceutical Water & Cleaning Validation

HTOC-1500 / HTOC-1700 (Online Model)



- Features:
- 1. Ideal choice to measure microelectronics water, purified water, ultra pure water and water for injection, etc.
 - 2. Smart 7 inches touch screen with user-friendly UI, easy to operate and read data.
 - 3. UV Oxidation by UV Lamp, no need to add acid, gas or catalyst, greatly reduced experiment cost.
 - 4. Equipped with sensitive conductivity detector to quantify TOC concentration accurately.
 - 5. Online mode to realize real-time monitoring (HTOC-1700).
 - 6. One button sampling, less sample contamination, no harm on operator and environment.
 - 7. Optional PC software, comply with FDA 21 CFR Part 11 requirements and USP, EP, ChP and JP.
 - 8. Optional 20-position autosampler.
 - 9. 8 GB large storage capacity, no restriction of data and time.
 - 10. All historical records can be traced by searching test date.
 - 11. Data can be retrieved and saved to USB disk directly.
 - 12. Equipped with bluetooth printer for quick data printing.
 - 13. Modular design for quick installation and easy maintenance.

Model	HTOC-1500	HTOC-1700
Measurement Range	1-1500ppb	
Detection Limit	1ppb	
Max Tolerance	±5%	
Analysis Time	3 min	
Response Time	within 10 min	
Sample Flow Speed	2mL/min	
Repeatability Tolerance	≤ 3%	
Power Requirement	AC110/220V, 50/60Hz, 100W	

HTOC-3000



- Features:
- 1. NDIR detector, high sensitivity and stability.
 - 2. Automatic leakage detection system not only avoids the misoperation, but also improves device performance and safety.
 - 3. Optional autosampler.
 - 4. Multi-functional PC software.
 - 5. Precise gas flow control technology improves accuracy.
 - 6. Modular design, simplifying device operation and maintenance.

Model	HTOC-3000
Measurement Method	Wet Chemical Oxidation by UV
Detector	NDIR
Analysis Parameter	TC, TIC, TOC, NPOC
Control Mode	PC Control
Gas Requirement	Nitrogen, purity ≥99.995%
Sample Type	Liquid Sample
Measurement Range	0-10000mg/L (ppm)
Detection Limit	5µg/L (ppb)
Repeatability	3%
Maximum Salinity	85g/L
Power Requirement	AC110/220V, 50/60Hz, 200W

HTOC-5000



- Features:
- 1. Auto sample dilution, auto acid-adding and auto gas purging.
 - 2. 6800C catalytic oxidation technology with platinum catalyst, especially for seawater test.
 - 3. NDIR detector, high sensitivity and stability.
 - 4. Optional autosampler.
 - 5. Multi-functional PC software.
 - 6. Precise gas flow control technology improves accuracy.
 - 7. PID temperature controlling technology, ensure higher accuracy.
 - 8. Unique three-stage dehydration technology improves drying efficiency.
 - 9. Data can be retrieved and saved to USB disk directly.
 - 10. Equipped with bluetooth printer for quick data printing.
 - 11. Modular design for quick installation and easy maintenance.

Model	HTOC-5000
Measurement Method	High Temperature Catalytic Combustion
Detector	NDIR
Analysis Parameter	TC, TIC, TOC , NPOC
Control Mode	PC software controlled
Gas Requirement	Oxygen, purity ≥99.995%
Sample Type	Liquid sample (AS-W20 is optional.) Solid sample (AS-S200 is needed.)
Measurement Range	0-1000mg/L, can extend to 0-100,000mg/L (Automatically dilution)
Limit of Detection	TC: 50µg/L IC: 20µg/L
Measuring Time	TC: around 4min IC: around 3min
Max. Permissible Error	TOC: ± 5% IC: ± 4%
Repeatability	≤3%
Injection Volume	TC: 100-500µL IC: 100-2000µL
Power Requirement	AC110/220V, 50/60Hz, 700W

HAS-W20



Model	HAS-W20
Sample Type	Liquid sample
Max. Number of Samples	19 sample positions an 1 cleaning position
Volume of Sample Bottle	60mL
Ambient Temperature	0-40°C
Relative Humidity	≤85%
Power	AC100-240V, 50/60 Hz, 120W

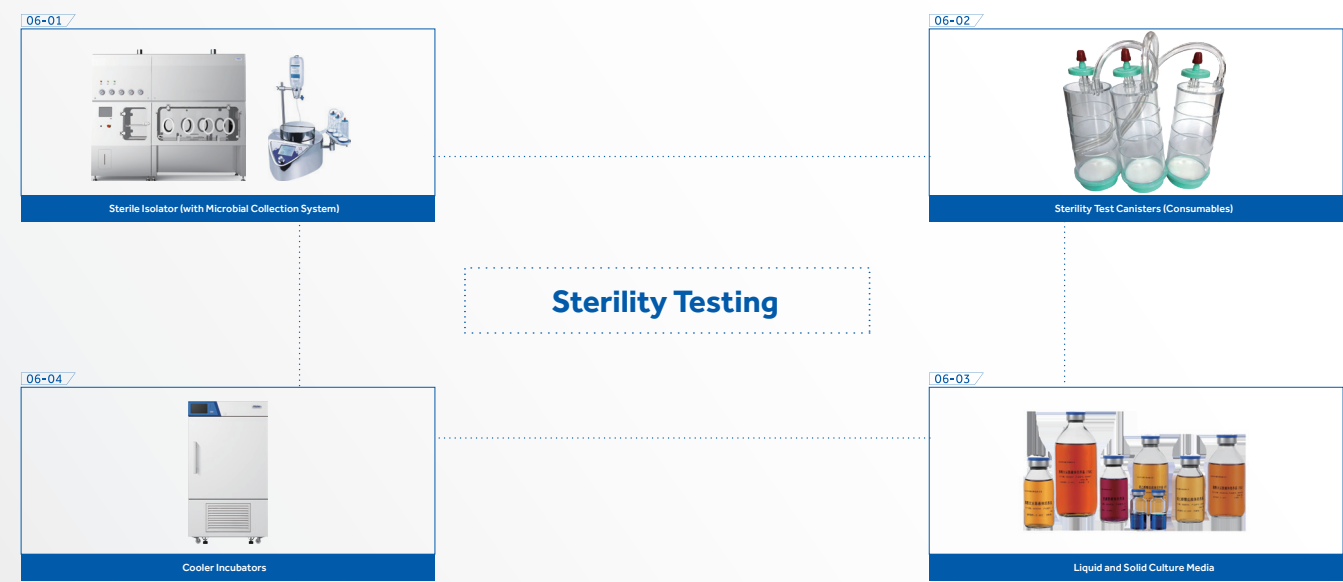
HAS-S200



Model	HAS-S200
Sample Type	Solid or suspension liquid sample
Control Mode	PC software controlled
Analysis Parameter	TC, TIC, TOC (TC-IC)
TC Measurement Method	High temperature catalytic combustion (9000C, Max.10000C)
TIC Measurement Method	Acidification at 2000C
Sample Carrier	Quartz boat
Gas Requirement	Oxygen, purity≥99.995% (TOC analyzer provides) Flow rate: 500mL/min
Measurement Range	0.1-30.0mg
Max. Sample Volume	Solid: 1.0g / TC liquid: 0.5mL / IC liquid: 0.3mL
Measurement Time	5-8min
Power	AC100-240V, 50/60 Hz, 1000W

Integrated Sterility Testing

Solution Overview



Solution Value

High Economic Benefits

Cuts operating costs by up to 50% over three years compared to traditional cleanroom methods
Minimizes false positives and negatives, reducing risk of wasted batches
Lowers sampling verification needs in clean labs, saving consumables and resources

High Production Efficiency

Reduces the need for heavy protective clothing, improving operator comfort
Streamlines sterile sampling inside one system, eliminating extra transfer steps
Easy one-touch disinfection and sterilization shortens setup time and reduces downtime

High Compliance Efficiency

End-to-end traceability with secure electronic batch records
Role-based access control ensures data integrity and reliable results
Integrated video monitoring provides auditable proof of every step
Fully compliant with 21 CFR Part 11 for electronic records, signatures, and audit trails

Data Source: Haier Biomedical User Experience Center

Solution Product Configuration

Sterile Isolator

06-01

Model: HGL-1800
Application:
Provides sterile environment for sterility tests, effectively preventing microbial contamination of test samples and avoiding contamination of test articles and auxiliary equipment, improving accuracy of sterility test results
Features:
Maximally prevents human/environmental contamination of samples, achieving 6-log sterilization effect

Sterility Test Canisters

06-02

Model: N/A
Application: Used with Sterile Isolator for sample transfer, membrane filtration, rinsing, and addition of culture media during sterility testing
Features:
① Uses ultrasonic welding technology for flat and firm welding; special composite material high-elasticity pump tube maintains long-lasting tension with pressure/abrasion resistance to ensure smooth completion of maximum test volume filtration
② Ethylene oxide sterilization technology with medical-grade breathable sterilization packaging to ensure sterilization performance

Microbial Culture Media

06-03

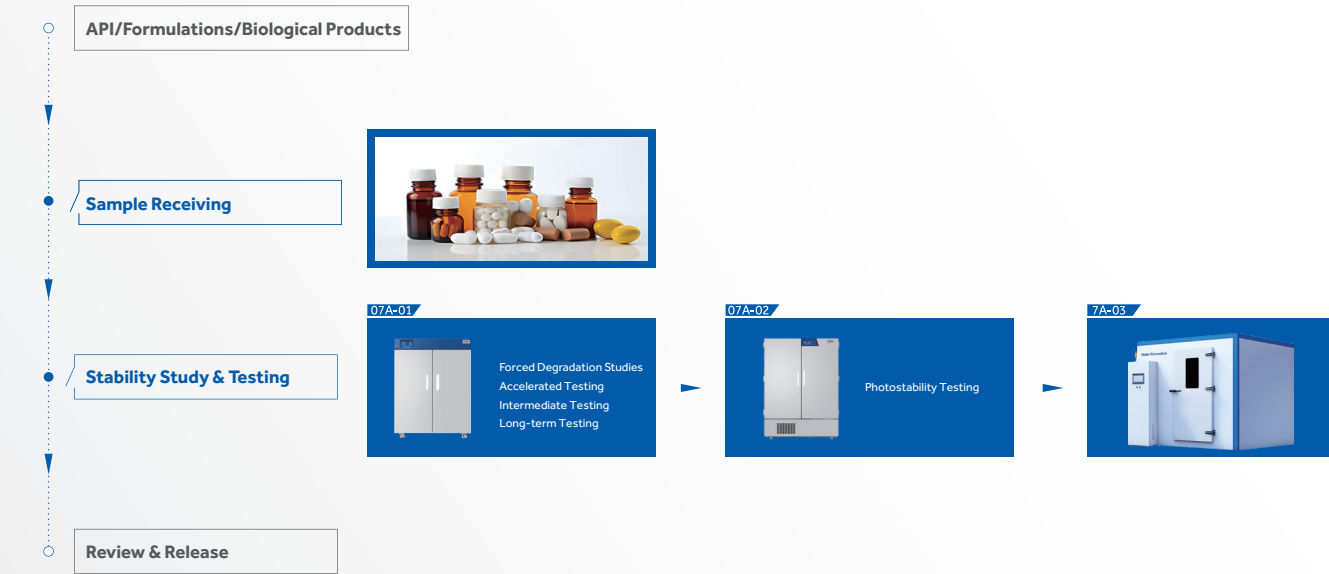
Application:
As auxiliary reagent for testing, inspection and identification
Features:
① Safe, convenient and efficient - ready-to-use reduces cross-contamination risks
② Stable microbial content and activity with flexible bacterial concentration customization

Cooler Incubators

06-04

Model: HSP-160
Application:
Widely used for specialized cultivation equipment in environmental protection, health/epidemic prevention, agriculture/livestock, pharmaceutical inspection, aquaculture research, and bacterial/mold/microbial culture/preservation/breeding experiments
Features:
① Uses PID control technology with deeply optimized cooling/heating mechanisms for high-precision temperature control with excellent temperature uniformity and stability
② IoT technology with remote monitoring via IoT APP

Solution Overview



Solution Value

High Economic Benefits

Advanced temperature control technology cuts energy use by up to 90%
Low operating costs with no need for refrigerants or consumables
Reduced maintenance requirements lower long-term costs

High Production Efficiency

Shorter operation time accelerates testing and improves throughput
Intuitive user interface simplifies daily operation and reduces training needs
Remote monitoring reduces staff workload and allows proactive oversight

High Compliance Efficiency

Full traceability with secure batch record output in PDF format
Role-based access management enhances data integrity and accountability
End-to-end process monitoring ensures auditable, reliable results
Fully compliant with 21 CFR Part 11 for electronic records, signatures, and audit trails

Data Source: Haier Biomedical User Experience Center

Solution Product Configuration

Constant Climate Chamber (Eco-Friendly)

07A-01



Model: HHS-256/506/756
Application: Constant temperature and humidity testing
Features:
① Precise and stable temperature/humidity control
② Complies with pharmacopoeia, GMP, ICH and FDA requirements
③ Semiconductor temperature control and dehumidification technology - stable, energy-efficient, low vibration with minimal testing interference
④ 21CFR Part 11 White Paper compliant

Constant Climate Chamber (Energy-saving)

07A-02



Model: HHS-260/500/810/1060
Application: Photostability testing
Features:
① Fully compliant and traceable process
② Stability: Stable operation throughout full cycle
③ Efficiency: Exceptional energy saving throughout operation

Walk-in Drug Stability Testing Chamber

07A-03



Model: ZK-G15PYC***
Application: Stability study & testing
Features:
① Customizable with intelligent management
② Complies with pharmacopoeia, GMP, ICH, JJF 1101-2019 requirements and GB10586-2006 damp heat test chamber technical requirements
③ Cloud management platform: Full lifecycle drug management

Pharmaceutical Packaging Material Stability Testing

Management Software Configuration

Smart sample management and electronic records (authentic, tamper-proof), addressing pain points in long-cycle drug stability testing operations for efficient compliance

NAME

BRIPIRAZOLE TABLETS

BATCH NUMBER

20250301

QUANTITY

10

EXPERIMENTAL DAYS

2

PERSON IN CHARGE

LI

CANCEL

SAVE

1. Sample input

2025-03-07 10:51:21

KEYWORD

PLEASE ENTER THE SAMPLE NAME

INQUIRE

NAME	BATCH NUMBER	QUANTITY	WAREHOUSE	EXPERIMENTAL ENTRY TIME	DAYS	TIME ALREADY IN PROGRESS	ESTIMATED TIME OF COMPLETION	OUTBOUND EARLY WARNING	OPERATION
BRIPIRAZOLE TABLETS	250301	10	LI	2025-03-07 10:50	2	0 d 0 h	2025-03-09 10:50	2025-03-08 10:50	STOCK REMOVAL
ROX	250301	20	LI	2025-03-07 10:50	2	0 d 0 h	2025-03-09 10:50	2025-03-08 10:50	STOCK REMOVAL
AMOXICILLIN	250301	50	LI	2025-03-07 10:50	3	0 d 0 h	2025-03-10 10:50	2025-03-09 10:50	STOCK REMOVAL

ADD SAMPLES

ADD SAMPLES

OPERATING RECORD

DOWNLOAD

IMPORT

2. Detailed overview

2025-03-07 10:51:21

KEYWORD

PLEASE ENTER THE SAMPLE NAME

INQUIRE

REMINDER

THE AMOXICILLIN EXPERIMENT HAS BEEN COMPLETED. PLEASE HANDLE THE RELEASE FROM THE WAREHOUSE

CONFIRM

3. Early warning and expiration reminders

2025-03-11 09:44:13

KEYWORD

PLEASE ENTER THE SAMPLE NAME

INQUIRE

NAME	BATCH NUMBER	QUANTITY	WAREHOUSE	EXPERIMENTAL ENTRY TIME	PRACTICAL EXPERIMENT DAYS	DELIVERY TIME	OPERATOR	
BRIPIRAZOLE TABLETS	250301	20	LI	2025-03-07 10:50	2	2 d 0 h	2025-03-10 17:48	ZHANG
ROX	7 2501	50	LI	2025-03-07 10:50	3	3 d 6 h	2025-03-10 17:48	ZHANG
AMOXICILLIN	1 2501	10	LI	2025-03-07 10:50	2	2 d 0 h	2025-03-10 17:47	ZHANG

CHECK ALL

SAMPLE CATALOGUE

DEVICE PARAMETERS

INCIDENT RECORD

ALARM RECORD

DOWNLOAD

4. Batch-based bulk downloading

Solution Overview



Solution Value

Stable and Reliable Testing

Wide temperature range (–86°C to –20°C) covers all common packaging stability requirements
Near-zero fluctuation (±2°C) ensures consistent, reproducible results
One-pass testing shortens commissioning and accelerates validation



Full Traceability and Compliance

Secure, tamper-proof temperature records for audit readiness
Fully compliant with 21 CFR Part 11 for electronic records and signatures
Validation services (3Q) support quick, reliable certification



Audit-compliant with complete traceable data

Provides 21CFR Part 11 White Paper
Provides authentic and reliable temperature records
Data security with tamper prevention



Accurate and Trusted Results

Independent CNAS test reports verify system accuracy
High dependability reduces risk of equipment failure or data loss
Reliable performance builds confidence in product stability outcomes

Solution Product Configuration

DW-86L100STL Pharmaceutical Packaging Material Temperature Stability Test Chamber

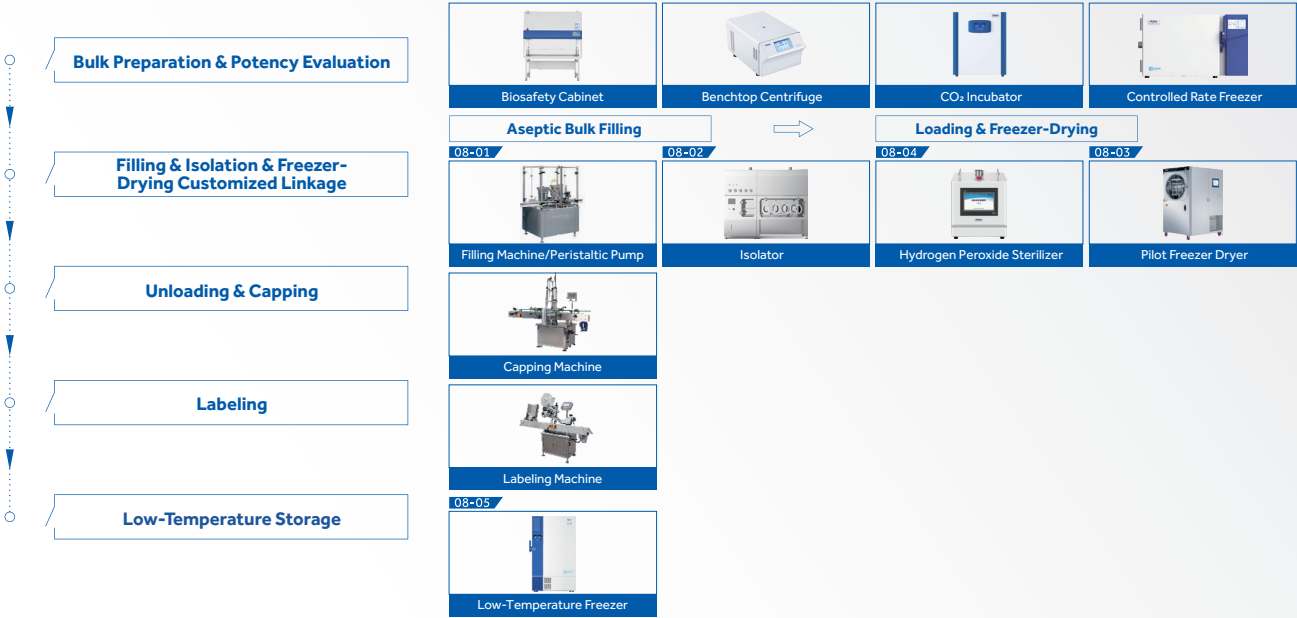
07B-01

- Model: DW-86L100STL
Application: Ensures long-term stability testing of pharmaceutical packaging materials under strict temperature conditions
- Benefits:
1. Delivers precise temperature control with near-zero fluctuation
 2. Wide temperature range from –20°C to –86°C supports multiple stability requirements
 3. Complies with NYMPA YBB standards for packaging stability testing
 4. Fully validated to 21 CFR Part 11 for compliance with global regulatory expectations
 5. Includes 3Q validation services for quick setup and certification



Integrated Freezer-Drying for Pilot and Process Development

Haier Biomedical's integrated freezer-drying solution supports every stage of pilot-scale development — from bulk preparation and aseptic filling through to freezer-drying, capping, labeling, and storage. This streamlined approach reduces handling steps, improves efficiency, and ensures consistent product quality.



Solution Value

High Economic Benefits

Extends drug stability compared to liquid formulations, ensuring potency and longer shelf life
Enables low-temperature storage and transport to reduce costs
Minimizes product losses by maintaining consistent quality throughout processing



High Production Efficiency

Automated programs simplify operation and reduce risk of error
Reliable sample protection eliminates avoidable production losses
Customizable freezer-drying parameters optimize equipment use for different product types

High Compliance Efficiency

Meets global batch record and regulatory requirements with complete traceability
Built-in validation and documentation ensure regulatory readiness
Stable processes and standardized operations support GMP compliance



03
Pilot &
Development

Integrated Freezer-Drying for Pilot and Process Development

Centrifugation Solutions for Pilot and Scale-Up

Solution Product Configuration

Filling Machine / Peristaltic Pump

08-01



Application: Precise quantitative filling for pilot-scale production
Benefits: Accurate volume control with customizable linkage to downstream equipment

Isolator

08-02



Model: HGL-1800
Application: Aseptic isolation for freezer-drying preparation
Benefits: Protects operators and products with high-level safety monitoring and contamination prevention

Pilot Freezer Dryer

08-03



Model: HDG-80Z10-50
Application: Freezer-drying of sample formulations at pilot scale
Benefits: Uniform shelf temperature and flexible control for consistent product stability

Hydrogen Peroxide Sterilizer

08-04



Application: Chamber sterilization for freezer-dryer and related equipment
Benefits: Ensures rapid, efficient sterilization to maintain sterility assurance levels

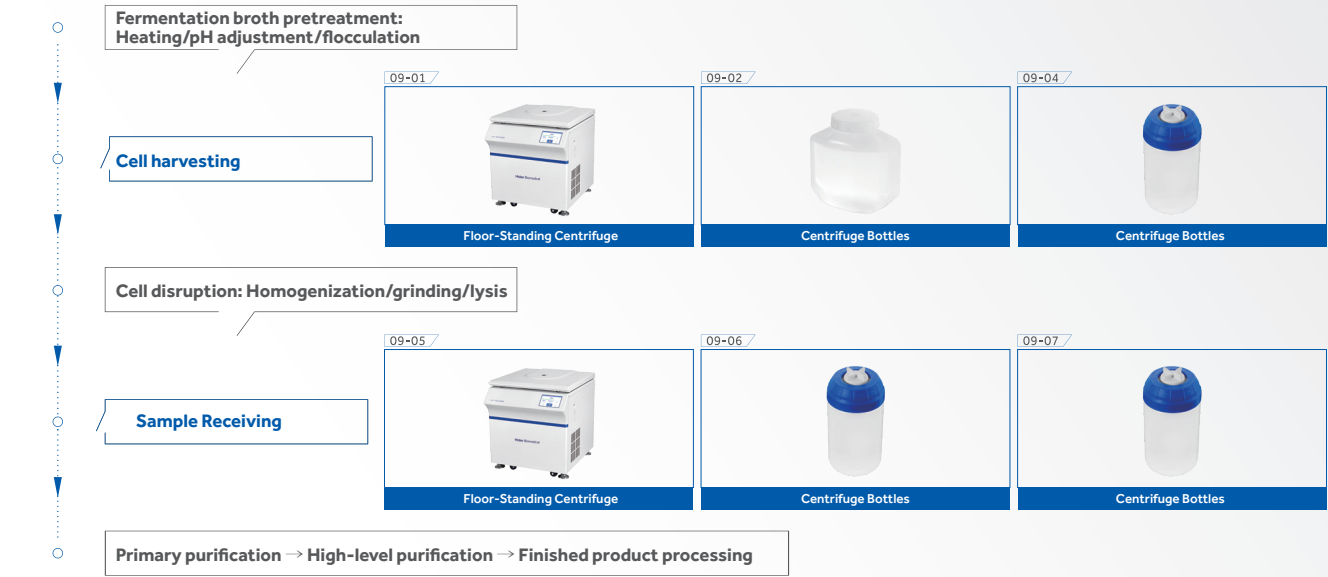
Low-Temperature Freezer

08-05



Application: Storage of biopharmaceuticals post-freezer-drying
Benefits: Maintains uniform ultra-low temperatures to protect product integrity

Solution Overview



Solution Value

High Economic Benefits

Simplifies yield optimization, improving overall productivity
Cost-effective separation even for high-viscosity fermentation broths
Scalable design supports easy scale-up from pilot to production



High Production Efficiency

Delivers fast, consistent separation with stable performance
Wide range of centrifuge bottles optimized for different volumes and applications
Preferred solution for small-volume to high-value bulk separations

High Compliance Efficiency

Complete traceable data meets audit and regulatory standards
Real-time monitoring supports accuracy and reliability
Full electronic documentation ensures GMP-compliant reporting



Centrifugation Solutions for Pilot and Scale-Up

GMP Compliance & Validation Assurance

Solution Product Configuration



Product	Model	Max Speed	Max Capacity	Max Centrifugal Force
Floor-Standing Centrifuge	LX-75L2400R	7500rpm	8*2000mL	13376×g
Centrifuge Bottles	2000mL	4000rpm	8*2000mL	5331×g
Floor-Standing Centrifuge	LX-100L1000R	10000rpm	6*1000mL	17700×g
Centrifuge Bottles	1000mL	7500rpm	6*1000mL	13376×g
Floor-Standing Centrifuge	LX-210L750R	21000rpm	6*500mL	47400×g
Centrifuge Bottles	250mL	12000rpm	6*250mL	22470×g
Centrifuge Bottles	500mL	10000rpm	6*500mL	17700×g

Ensuring Audit-Ready Documentation

Haier Biomedical provides full documentation aligned with 21CFR Part 11 and GAMP5 standards, including electronic signatures, traceable records, and audit trails. This ensures customers have the right validation evidence in place to meet global regulatory inspections.

COMPLIANT WITH FDA 21CFR PART11

WHITE PAPER

符合 FDA 21CFR PART11 白皮书

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3 满足 SIMATIC WinCC 的要求

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3.2 供应商和服务提供商

3.3 数据完整性

3.4 审计追踪、变更控制支持

3.5 系统访问、权限管理和密码

3.6 电子签名

4 SIMATIC WinCC 评估表

4.1 计算机化系统的生命周期和验证

4.2 供应商和服务提供商

4.3 数据完整性

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4.5 系统访问、权限管理和密码

4.6 电子签名

4.7 开放系统

COMPLIANT WITH FDA 21CFR PART11

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文件编号:

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1 介绍

海尔生物医疗生产的 HDR-80w 冻融机采用了德国西门子 WinCC V7.5 版本软件, 具备了 SIMATIC WinCC 的数据完整性方面的合规属性

生命科学行业的关键决策是依赖于监管记录, 这些记录越来越多地以电子方式生成、处理和保存。这些数据的审查和批准也以电子方式提供。因此, 电子记录和电子签名的适当管理已成为生命科学行业的重要课题。

相应地, 监管机构定义了标准。在该标准下, 电子记录和电子签名将被认为与纸质记录和纸质上执行的电子签名一样可靠和值得信赖。这些要求已由美国食品和药物管理局在 21 CFR 第 11 部 21 CFR 第 11 部电子记录-电子签名、美国食品和药物管理局、1997 年联邦 11 部分和欧盟委员会在 EU GMP 指南附录 1 (EU 良好生产规范指南, 第 4 章) 附录 11 计算机化系统, 欧盟委员会, 2013 年 1 月颁布 (附录 11)。

由于对电子记录和电子签名的要求是与计算机化系统处于验证状态相关, 因此这两个法

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冻融机符合 FDA 21CFR PART11 白皮书

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Name 姓名

Company/Title 公司/职位

Signature 签字

Date 日期

Approved By 批准:

Name 姓名

Company/Title 公司/职位

Signature 签字

Date 日期

COMPLIANT WITH FDA 21CFR PART11

WHITE PAPER

符合 FDA 21CFR PART11 白皮书

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客户审核及批准

Reviewed By 审核:

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Company/Title 公司/职位

Signature 签字

Date 日期

Approved By 批准:

Name 姓名

Company/Title 公司/职位

Signature 签字

Date 日期

修订历史

Revision 版本号

Date 日期

Name 名称

Description 描述

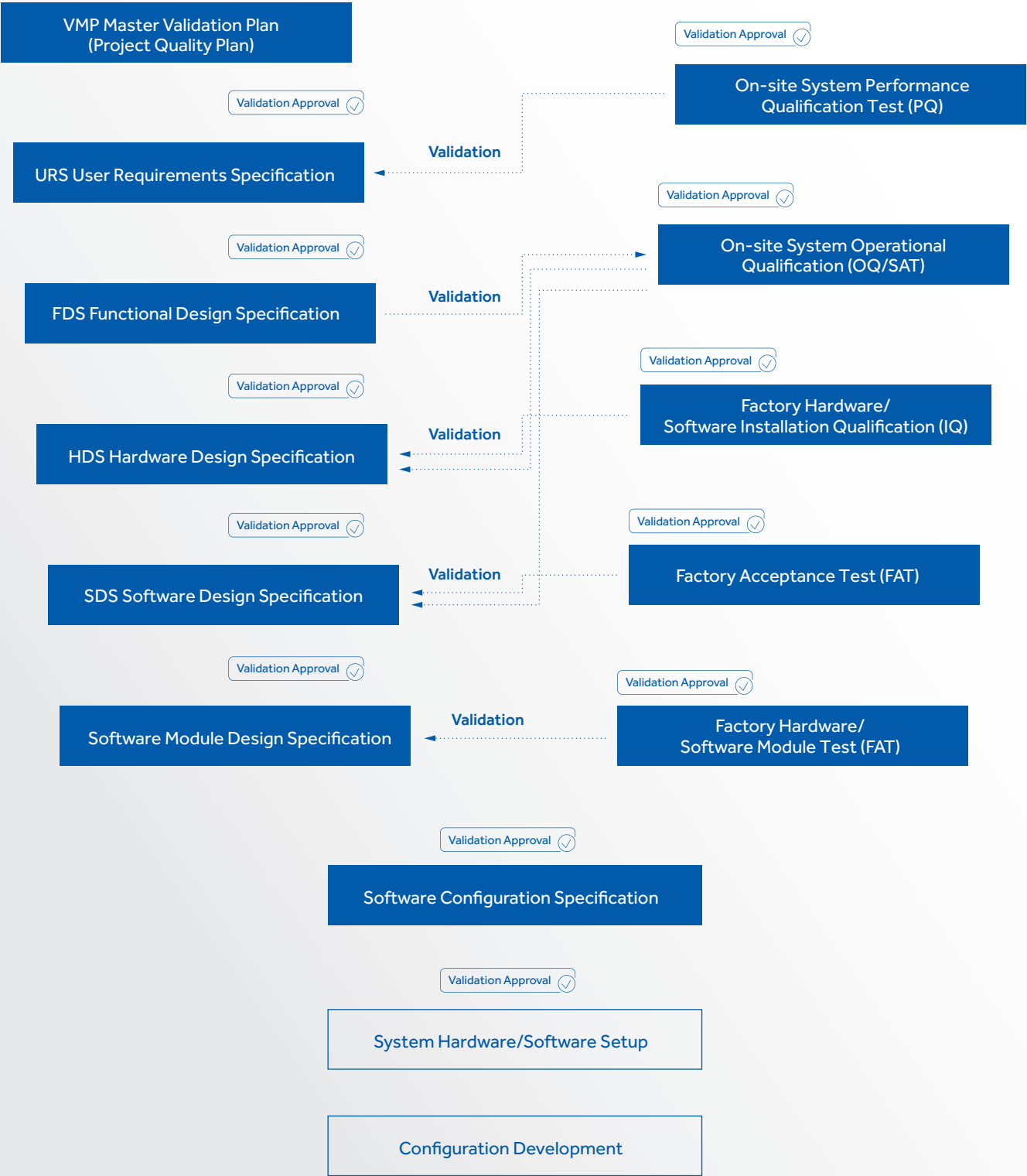
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First revision 初版。

GMP Compliance & Validation Assurance

Engineering Compliance

GAMP5 Validation System
VMP, URS, FDS, RA, DQ, HDS, SDS, IQ, FAT, OQ, SAT, PQ, RTM



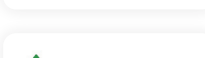
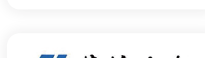
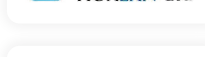
04
Ensuring GMP
Compliance

05

Haier Biomedical solutions are relied upon by world-leading pharmaceutical and biopharma companies

Service Cases

Win-win cooperation

06

After-Sales
Value-Added Services

Haier Biomedical provides comprehensive after-sales support, ensuring equipment reliability, compliance, and peace of mind through professional validation, global service coverage through it's network of partners, and lifetime product care.

3Q Validation Service

We provide professional manufacturer 3Q testing services, strictly following national medical equipment standards and GMP production requirements to ensure equipment storage safety, stability and effectiveness, protecting users' precious samples, reagents, drugs, raw materials, etc., and ensuring equipment meets user requirements and relevant regulatory audit requirements.



Team Members

We currently have 35 professional validation engineers who are certified through training and examinations (certificates verifiable), including 8 with over 10 years of validation experience and 15 with over 5 years of experience. Our experienced team can provide customized validation solutions and solve on-site validation and equipment issues.

Product Advantages



Timeliness

- Wide service coverage with extensive network
- Fast on-site response



Professionalism

- Professional equipment
- Professional service team



Product Convenience

- Breaking traditional models to achieve integrated equipment purchase, measurement and validation

Enjoy Haier Biomedical star-rated service standards - convenient and fast service by calling 400-699-2017 for reporting

Product

Items	Product Categories
3Q Services	Constant temperature, low temperature, ultra-low temperature refrigerators, liquid nitrogen tanks, controlled rate freezers, cold room
	Biosafety cabinets, clean benches
	Constant temperature incubators, Constant Climate Chamber, CO ₂ incubators, drying ovens
	autoclaves, centrifuges, transport coolers

Other Value-added Services



Human Genetic Resources
Management Consulting Services
Safety·Standards·Compliance



ISO 20387 System
Consulting Services
Safety·Standards



Integrated Operation &
Maintenance
Safety·Efficiency



Third-Party Testing
Measurement & Calibration Services
Safety·Efficiency



Emergency Network
Mutual Assistance Platform
Safety·Efficiency

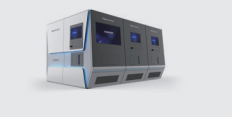
07

Product and
Parameter Details

-80°C Intelligent Biological Sample Storage System



Expandable Automated Workstation



-196°C Intelligent Liquid Nitrogen Biological Sample Storage System



Transport Robot



Liquid Nitrogen Transport Cooler



-80°C Intelligent Biological Sample Storage System

Model	Recommended Customized Chamber Length	Recommended Customized Chamber Width	Recommended Customized Chamber Height	Cryo-Tube Type	Recommended Capacity
HSK80-300K2	4.4m	3.5m	3.3m	Haier 0.5ml 2D bar code	400,000 pcs
HSK80-500K2	5.3m	3.5m	3.3m	Haier 0.5ml 2D bar code	700,000 pcs
HSK80-1M2	6.5m	3.9m	3.3m	Haier 0.5ml 2D bar code	1100,000 pcs
HSK80-1500K2	7.7m	4.1m	3.3m	Haier 0.5ml 2D bar code	2100,000 pcs
HSK80-2M2	6.5m	7.3m	3.3m	Haier 0.5ml 2D bar code	2200,000 pcs
	12.2m	3.9m	3.3m		
HSK80-2500K2	7.4m	7.3m	3.3m	Haier 0.5ml 2D bar code	2800,000 pcs
	14m	3.9m	3.3m		
HSK80-3M2	7.7m	7.8m	3.3m	Haier 0.5ml 2D bar code	3900,000 pcs
	14.6m	4.1m	3.3m		
Cooling Principle	Compressor cooling with liquid nitrogen backup			Refrigeration System	Dual-Use with One Backup
Storage Temperature	-80°C			Data Transmission Method	Ethernet Network
Power Specifications	AC380V/50Hz			Load Capacity	≥500kg/m ²

Model	Automation Level	Load Requirement (kg/m ²)	Capacity	Consumable Compatibility	Network Interface	Future Upgrades
HAB80-29KB	Full-box	≥500	40,000 standard 2ml SBS sample tubes	Compatible with Various Brand Consumables	RJ45 Cable Network Available	Compatible with additional automated upgrade accessories

-196°C Intelligent Liquid Nitrogen Biological Sample Storage System

Model	Automated Access Level	Storage Temperature	Standard SBS 2ml Capacity	Dimensions (W*D*H)	Time required to warm from storage temp to -130°C	Max Liquid Nitrogen Capacity Below Platform	Power Supply	Compatibility
HSN96-46K2	Single-Tube or Full-Box	<-180°C	46,000 pcs	1750x2120x2760mm	≥500H	≥320L	16A Three-Pin Socket	SBS Format, Etc. 0.5ml/1.5ml/2ml Cryo-Tubes
HSN96-24K2	Single-Tube or Full-Box	<-180°C	24,000 pcs	1540x1900x2555mm	≥500H	≥180L	16A Three-Pin Socket	SBS Format, Etc. 0.5ml/1.5ml/2ml Cryo-Tubes
HSN96-46K3	Full-Box	<-180°C	46,000 pcs	1750x2120x2760mm	≥500H	≥320L	16A Three-Pin Socket	SBS Format, Etc. 0.5ml/1.5ml/2ml Cryo-Tubes
HSN96-24K3	Full-Box	<-180°C	24,000 pcs	1540x1920x2555mm	≥500H	≥180L	16A Three-Pin Socket	SBS Format, Etc. 0.5ml/1.5ml/2ml Cryo-Tubes

Product and Parameter Details

Full Temperature Range Storage Equipment

-196°C Liquid Nitrogen Tank	-150°C Cryo Freezer	-86°C ULT Freezer	-60°C Biomedical Freezer	-40°C Biomedical Freezer
				
-30°C Biomedical Freezer	-25°C Biomedical Freezer	2-8°C Pharmacy Refrigerator	0-19°C Laboratory Refrigerator	-40~8°C Combined Refrigerator and Freezer
				

Liquid Nitrogen Tank

Biological Sample Bank Series

Product Model	Effective Volume (L)	Diameter (mm)	Total Height (mm)	External Diameter (mm)	Empty Weight (kg)	Liquid Nitrogen Volume at Tray Bottom (L)	2ml Internal Thread Cryo-Tube Capacity	Cryo Rack Capacity (100 slots/box)	Cryo Rack Capacity (25 slots/box)	Number of Shelving Layers
YDD-350-326/PM	350	326	1263	875	245	55	13000	12	4	10
YDD-850-465/PM	890	465	1499	1190	441	135	42900	32	4	13
YDD-1800-635/PT	1880	635	1661	1565	985	320	94875	60	13	15

Aluminum Alloy Liquid Nitrogen Tank

Product Model	Effective Volume (L)	Diameter (mm)	Total Height (mm)	External Diameter (mm)	Empty Weight (kg)	Static Liquid Nitrogen Preservation Period (days)	Static Evaporation Rate (L/day)	2ml Internal Thread Cryo-Tube Capacity (100/box)	Lifting Bucket Quantity (units)	Lifting Bucket Box Quantity (2ml/unit)
YDS-65-216	65	216	760	681	41	83	0.78	2400	6 (square)	4
YDS-115-216	115	216	895	681	48	122	0.94	3600	6 (square)	6
YDS-175-216	175	216	1110	681	58	184	0.95	6000	6 (square)	10
YDS-47-127-10	47	127	740	508	18.2	130	0.36	/	10 (round)	/

SmartCore Series Liquid Nitrogen Storage System

Product Model	Effective Volume (L)	Diameter (mm)	Total Height (mm)	External Diameter (mm)	Empty Weight (kg)	Liquid Nitrogen Volume at Tray Bottom (L)	2ml Internal Thread Cryo-Tube Capacity	Cryo Rack Capacity (100 slots/box)	Cryo Rack Capacity (25 slots/box)	Number of Shelving Layers
CryoBio 13	350	326	1505	910	269	55	13000	12	4	10
CryoBio 27	587	445	1588	1140	378	80	27000	24	12	10
CryoBio 43	890	465	1810	1240	471	135	42900	32	4	13

Cryogenic ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-150W209	209/7.4	HC	Touch Screen LCD	220-240/50	-140 ~-150	667×462×677	1650×860×1010	260/295
DW-150W209A	209/7.4	HC	Touch Screen LCD	208-30/60	-140 ~-150	667×462×677	1650×860×1010	260/295

RFID ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-86L728BPSTR	728/25.7	HC	Touch Screen LCD	220/50	-40--86	766×716×1310	1300×1045×1980	555/640

Stirling ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-86L100STL	100/3.5	/	Touch Screen LCD	220-240/50/60 110-120/50/60	-20--86	440×444×505	779××820×816	110/145

TwinCool ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-86L828BPST	828/29.2	HC	Touch Screen LCD	100-230/50/60	-40--86	870×716×1310	1145×998×1980	380/410
DW-86L728BPST	728/25.7	HC	Touch Screen LCD	100-230/50/60	-40--86	766×716×1310	1046×998×1980	350/385
DW-86L578BPST	578/20.4	HC	Touch Screen LCD	100-230/50/60	-40--86	620×716×1310	895×998×1980	325/355

UltraEco ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-86L960BPT	960/33.9	HC	Touch Screen LCD	100-230/50/60	-40--86	895×998×1970	1296×998×1970	375/426
DW-86L830BPT	830/29.3	HC	Touch Screen LCD	100-230/50/60	-40--86	870×716×1310	1145×998×1970	336/390
DW-86L730BPT	730/25.8	HC	Touch Screen LCD	100-230/50/60	-40--86	766×716×1310	1046×998×1970	314/368
DW-86L580BPT	580/20.5	HC	Touch Screen LCD	100-230/50/60	-40--86	620×716×1310	1016×716×1310	287/326

SmartEco ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-86L959BP	959/33.9	HC	LED	208-230/50/60	-40--86	1016×716×1310	1296×998×1980	450/485
DW-86L959BPT	959/33.9	HC	Touch Screen LCD	208-230/50/60	-40--86	1016×716×1310	1296×998×1980	450/485
DW-86L959BPT	959/33.9	HC	Touch Screen LCD	100-230/50/60	-40 ~ -86	1016×716×1310	1296×998×1980	450/485
DW-86L829BP	829/29.2	HC	LED	208-230/50/60	-40--86	870×716×1310	1145×998×1980	380/415
DW-86L829BPT	829/29.2	HC	Touch Screen LCD	208-230/50/60	-40--86	870×716×1310	1145×998×1980	380/415
DW-86L829BPT	829/29.2	HC	Touch Screen LCD	100-230/50/60	-40--86	870×716×1310	1145×998×1980	380/415
DW-86L729BP	729/25.7	HC	LED	100-230/50/60	-40--86	766×716×1310	1046×998×1980	350/385
DW-86L729BPT	729/25.7	HC	Touch Screen LCD	100-230/50/60	-40--86	766×716×1310	1046×998×1980	350/385
DW-86L579BP	579/20.4	HC	LED	100-230/50/60	-40--86	620×716×1310	895×998×1980	320/350
DW-86L579BPT	579/20.4	HC	Touch Screen LCD	100-230/50/60	-40--86	620×716×1310	895×998×1980	320/350

Water-cooled ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-86L959W	959/33.9	HC	Touch Screen LCD	208-230/50/60	-40--86	1016×716×1310	1296×998×1980	450/485
DW-86L828W	828/29.2	HC	Touch Screen LCD	208-230/50/60	-40--86	870×716×1310	1145×998×1980	380/415

9 Series ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-86L829	829/29.3	HC	Touch Screen LCD	220-240/50	-40--86	870×716×1310	1153×980×1980	380/410
DW-86L729	729/25.75	HC	Touch Screen LCD	220-240/50	-40--86	766×716×1310	1049×980×1980	350/385
DW-86L579	579/20.45	HC	Touch Screen LCD	220-240/50	-40--86	620×716×1310	903×980×1960	300/330
DW-86L419	419/14.8	HC	Touch Screen LCD	220-240/50	-40--86	465×716×1310	830×980×1980	255/286

Product and Parameter Details

Standard ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-86L828J	828/29.2	HC	LED	220-240/50	-40~-86	870×716×1310	1145×980×1980	380/410
DW-86L828JA	828/29.2	HC	LED	208-230/60	-40~-86	870×716×1310	1145×980×1980	380/410
DW-86L728J	728/25.7	HC	LED	220-240/50	-40~-86	766×716×1310	1049×980×1980	345/385
DW-86L728J	728/25.7	HC	LED	120/60	-40~-86	766×716×1310	1049×980×1980	345/385
DW-86L728JA	728/25.7	HC	LED	208-230/60	-40~-86	766×716×1310	1049×980×1980	345/385
DW-86L628E	626/22.1	HC	LED	220-240/50	-40~-86	760×630×1310	1035×900×1980	301/323
DW-86L486E	486/17.1	HC	LED	220-240/50	-40~-86	590×630×1310	953×900×1980	290/310
DW-86L578J	578/20.4	HC	LED	220-240/50	-40~-86	620×716×1310	903×980×1960	300/330
DW-86L578J	578/20.4	HC	LED	120/60	-40~-86	620×716×1310	903×980×1960	300/330
DW-86L578JA	578/20.4	HC	LED	208-230/60	-40~-86	620×716×1310	903×980×1960	300/330
DW-86L490J	490/17.3	HC	LED	220-240/50	-40~-86	590×630×1310	873×900×1980	295/335
DW-86L490JA	490/17.3	HC	LED	208-230/60	-40~-86	590×630×1310	873×900×1980	295/335
DW-86L388J	388/13.7	HC	LED	220-240/50	-40~-86	465×716×1310	830×980×1980	255/286
DW-86L338J	338/11.9	HC	LED	220-240/50	-40~-86	465×630×1165	823×900×1871	238/278
DW-86L338J	338/11.9	HC	LED	120/60	-40~-86	465×630×1165	823×900×1871	238/278
DW-86L338JA	338/11.9	HC	LED	208-230/60	-40~-86	465×630×1165	823×900×1871	238/278
DW-86W420J	420/14.8	HC	LED	220-240/50	-40~-86	1367×462×652	2130×870×1020	310/357
DW-86W420JA	420/14.8	HC	LED	208-230/60	-40~-86	1367×462×652	2130×870×1020	310/357
DW-86W100J	100/3.5	HC	LED	220-240/50	-40~-86	470×450×480	769×825×1120	138/160
DW-86L100J	100/3.5	HC	LED	220-240/50	-40~-86	330×481×630	770×660×810	108/132
DW-86L100J	100/3.5	HC	LED	120/60	-40~-86	330×481×630	770×660×810	108/132
DW-86L51J	51/1.8	HC	LED	120/60	-40~-86	330×481×316	532×640×806	77/90
DW-86L51J	51/1.8	HC	LED	220-240/50	-40~-86	330×481×316	532×640×806	73/86

Mini ULT Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-80WZ15	15/0.53	HC	LED	220/50 110/60 DC 24	-60~-80	260×180×330	690×320×500	27/33

CO₂ Backup System

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
HBX-IC	/	/	LED	220-240/50 208-230/60 115/60	-40~-70	/	200×400×160	11.2/14

LN₂ Backup System

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
HBX-IIA	/	/	LED	220-240/50 208-230/60 115/60	-42~-160	/	360×305×445	15/17

-60°C Biomedical Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-60W388	388/13.7	HC	LED	220-240/50	-30~-60	1450*445*620	1655*770*950	105/130
DW-60W258	258/9.1	HC	LED	220-240/50	-30~-60	1000*445*620	1210*770*950	88/108
DW-60W138	138/4.9	HC	LED	220-240/50	-30~-60	580*445*620	790*770*950	62/75

-40°C Biomedical Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-40L568J	568/20.1	HC	LCD	220-240/50	-20~-40	610*755*1260	848*951*1780	190/215
DW-40L528D	531/18.8	HC	LED	220-240/50	-20~-40	704*620*1230	940*845*1878	180/205
DW-40L528DA	531/18.8	HC	LED	208-230/60	-20~-40	704*620*1230	940*845*1878	180/205
DW-40L418D	418/14.8	HC	LED	220-240/50	-20~-40	554*620*1230	790*845*1878	145/165
DW-40L298J	298/10.5	HC	LED	220-240/50	-20~-40	541*443*1218	770*710*1828	125/140
DW-40L298JA	298/10.5	HC	LED	208-230/60	-20~-40	541*443*1218	770*710*1828	125/140
DW-40L262	262/9.3	HC	LCD	220-240/50/60	-20~-40	480*465*1430	700*705*1665	88/93
DW-40L262	262/9.3	CFC-Free	LCD	115/60	-20~-40	480*465*1430	700*705*1665	88/93
DW-40L92	92/3.3	HC	LCD	220-240/50/60	-20~-40	435*410*635	640*610*810	46/51
DW-40L959BP(T)	959/33.9	HC	LED (Touch Screen LCD)	100-230/50/60	-20~-40	1016*716*1310	1296*998*1980	350/400
DW-40L818BP(T)	818/28.9	HC	LED (Touch Screen LCD)	100-230/50/60	-20~-40	750*755*1460	988*951*1980	210/240
DW-40W380J	380/13.4	HC	LCD	220-240/50	-20~-40	1450*445*620	1655*770*950	90/115
DW-40W255J	255/9.0	HC	LCD	220-240/50	-20~-40	1000*445*620	1210*770*950	76/96
DW-40W138J	138/3.9	HC	LCD	220-240/50	-20~-40	580*445*620	790*770*950	52/65

-30°C Biomedical Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-30L818	818/28.9	HC	LCD	220～240/50	-10~-30	750*755*1460	988*951*1980	205/235
DW-30L698	698/24.7	HC	LED	220～240/50 115/60	-10~-30	640*755*1458	874*930*1984	180/225
DW-30L528D	531/18.8	HC	LCD	220～240/50 115/60	-10~-30	704*620*1230	940*845*1878	180/205
DW-30L298J	298/10.5	HC	LCD	220-240/50	-10~-30	541*443*1218	770*710*1828	125/140
DW-30L1280F	1280/45.2	HC	LED	220-240/50	-10~-30	1320*752*1260	1520*1065*1996	420/480
DW-30L520F	520/18.4	HC	LED	220-240/50 208-230/60	-10~-30	610*755*1006	848*1011*1780	210/252
DW-30L818BP(T)	818/28.9	HC	LED (Touch Screen LCD)	100-230/50/60	-10~-30	750*755*1460	988*951*1980	210/240

-25°C Biomedical Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-25L262	262/9.3	HC	LCD	220-240/50	-10~-25	480*465*1430	700*705*1665	88/93
DW-25L262	262/9.3	HC	LCD	115/60	-10~-25	480*465*1430	700*705*1730	88/93
DW-25L92	92/3.2	HC	LCD	220-240/50	-10~-25	435*410*635	640*610*810	46/51
DW-25L92	92/3.2	HC	LCD	115/60	-10~-25	435*410*635	640*610*810	46/51

Product and Parameter Details

Spark Free Biomedical Freezer

Model	Capacity(L/Cu.Ft)	Refrigerant	Display	Power Supply (V/Hz)	Temperature Range(°C)	Interior Dimension (W×D×H)(mm)	Exterior Dimension (W×D×H)(mm)	Net/Gross Weight (kg)
DW-30L298SF	298/10.5	HC	LCD	220~240/50	-10~-30	541*443*1218	770*710*1828	125/140
DW-30L298FL	298/10.5	HC	LCD	220~240/50	-10~-30	541*443*1218	770*710*1828	125/140
DW-25L92SF	92/3.2	HC	LED	220~240/50	-10~-25	435*410*635	597*635*810	46/51

2~8°C Pharmacy Refrigerator

Model	Voltage (V/Hz)	Power (W)	Internal Temperature (°C)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Effective Volume (L)	Net/Gross Weigh (kg)	Shelves/ Inner Door/ Drawers (optional)
HYC-55GE	220-240/50	190	2-8	495×550×545	400×387×422	55	31/35	2
HYC-55EF	220-240/50	190	2-8	495×550×545	400×387×422	55	28/32	2
HYC-80GE	220-240/50/60	180	2-8	495×550×740	405×405×555	80	36/39	2
HYC-85GD	220-240/50	140	2-8	495×550×740	405×405×555	85	36/41	2+1 (frame)
HYC-85FD	220-240/50	130	2-8	495×550×740	405×405×555	85	36/41	2+1 (frame)
HYC-125GE	220-240/50	180	2-8	595×670×840	515×455×625	125	99/130	2
HYC-125EF	220-240/50	180	2-8	595×670×840	515×455×625	125	106/115	2
HYC-309	220-240/50/60	250	2-8	600×630×1840	525×500×1290	309	77/90	6
HYC-341GD	220-240/50/60	220	2-8	595×800×1650	500×592×1325	341	88/98	5
HYC-341FD	220-240/50/60	220	2-8	595×800×1650	500×592×1325	341	78/92	5
HYC-410	220-240/50	350	2-8	665×710×1965	530×555×1380	410	116/139	6/-
HYC-461GD	220-240/50/60	310	2-8	595×730×1990	500×592×1668	461	115/125	6
HYC-461FD	220-240/50/60	310	2-8	595×730×1990	500×592×1668	461	115/125	6
HYC-509	220-240/50/60	370	2-8	693×813×1981	593×585×1500	509	180/215	6
HYC-509F	220-240/50/60	315	2-8	693×813×1981	593×585×1500	509	175/210	6
HYC-639	220-240/50	410	2-8	760×894×1990	620×706×1520	639	200/220	6
HYC-701GD	220-240/50/60	157	2-8	760×910×1990	620×71×1650	701	148/190	5
HYC-701GT	220-240/50/60	157	2-8	760×910×1990	620×71×1650	701	148/190	5
HYC-701FD	220-240/50/60	157	2-8	760×910×1990	620×71×1650	701	148/190	5
HYC-701FT	220-240/50/60	157	2-8	760×910×1990	620×71×1650	701	148/190	5
HYC-1030GT	220-240/50/60	450	2-8	1205×760×1990	1115×592×1668	1030	265/270	14
HYC-1030GD	220-240/50/60	450	2-8	1205×760×1990	1115×592×1668	1030	265/270	14
HYC-1031FD	220-240/50/60	450	2-8	1205×760×1990	1115×592×1668	1031	265/270	14
HYC-1031GD	220-240/50/60	450	2-8	1205×730×1990	1115×592×1668	1031	265/270	14
HYC-1031GDH	220-240/50/60	450	2-8	1205×800×1990	1115×590×1670	1031	255/265	14
HYC-1031FDH	220-240/50/60	450	2-8	1205×800×1990	1115×590×1670	1031	235/245	14
HYC-1099	220-240/50/60	470	2-8	1395×813×1981	1295×585×1500	1099	340/400	12
HYC-1099T	220-240/50/60	470	2-8	1395×813×1981	1295×585×1500	1099	340/400	12
HYC-1099F	220-240/50/60	440	2-8	1395×813×1981	1295×585×1500	1099	330/390	12
HYC-1099TF	220-240/50/60	440	2-8	1395×813×1981	1295×585×1500	1099	330/390	12
HYC-1378	220-240/50/60	600	2-8	1440×950×1980	1320×700×1500	1378	310/360	12/-

RFID Refrigerator

Model	Voltage (V/Hz)	Power (W)	Internal Temperature (°C)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Effective Volume (L)	Net/Gross Weigh (kg)	Shelves/ Inner Door/ Drawers (optional)
HYC-509R	220-240/50/60	470	2-8	693×813×1981	593×585×1500	509	180/215	6
HYC-639R	220-240/50/60	400	2-8	760×897×1993	620×706×1520	639	200/240	5

Combined Refrigerator and Freezer

Model	Voltage (V/Hz)	Power (W)	Internal Temperature (°C)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Effective Volume (L)	Net/Gross Weight (kg)
HYCD-282	220-240/50/60	410	Refrigerator: 2-8	736×660×1810	Refrigerator: 605×510×720	Refrigerator: 185	145/160
HYCD-282A	220-240/50/60	410	Freezer: -10~-40	736×660×1810	Freezer: 515×465×440	Freezer: 97	145/160
HYCD-469	220-240/50/60	640	Refrigerator: 2-8	738×834×1975	Refrigerator: 593×585×800	Refrigerator: 269	176/207
HYCD-469A	220-240/50/60	640	Freezer: -10~-40	738×834×1975	Freezer: 553×545×660	Freezr: 200	176/207
HYCD-530GT	220-240/50/60	600	Refrigerator: 2-8 Freezer: -10~-40	760×810×1925	Refrigerator: 668×582×695 Freezer: 600×658×827	Refrigerator: 270 Freezr: 260	364/441

Spark Free Refrigerator

Model	Voltage (V/Hz)	Power (W)	Internal Temperature (°C)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Effective Volume (L)	Net/Gross Weight (kg)
HLR-118SF	220-240/50	55	3~16°C Adjustable	597×635×810	515×415×630	118	44/49
HLR-310SF	220-240/50	210	3~16°C Adjustable	605×598×1840	560×500×1290	310	72/83
HLR-310FL	220-240/50	210	3~16°C Adjustable	605×598×1840	560×500×1290	310	72/83
HLRF-319SF	220-240/50	230	Refrigerator: 3~16°C Freezer: -10~-30°C	735×660×1810	Refrigerator: 605×510×720 Freezer: 515×465×440	Refrigerator: 219 Freezer: 100	130/140

» Pre-Processing Equipment

FlexiFreezer Freezer Dryer

Bench-Top

Floor-Standing

3kg

4kg

6kg

HDG-86Z03-12T

HDG-86Z04-12

HDG-86Z06-18

FlexiFreezer Pro Freezer Dryer

DG-65Z04-10AR

DG-65Z04-10A

HDG-86Z05-40T

Pilot Freezer Dryer

HDG-85Z10-50

Controlled Rate Freezer

Controlled Freezer-Thaw System

Product and Parameter Details

FlexiFreezer Freezer Dryer

Model	HDG-86Z03-12T	HDG-86Z04-12	HDG-86Z06-18
BE No.	BE1KX0000	BE1KY1000	BE1KZ0000
Type	Bench-Top	Floor-Standing	Floor-Standing
Ice Condenser Temperature (°C)	-86	-86	-86
Ice Condenser Capacity (kg)	3	4	6
Condensation Efficiency (kg/24h)	3	4	6
Maximum Vacuum (Pa)	≤5	≤5	≤5
Freezer Chamber Dimension (mm)	φ300*150	φ300*210	φ340*250
Power Supply (V/Hz)	220-240/50	220-240/50	220-240/50
Power (W)	890	1050	980
Exterior Dimension (W*D*H) (mm)	406*550*430	406*550*720	645*600*720
Weight (kg)	40	50	65
Automatic Defrost Function	/	Optional	Optional
Certification	CE	CE	CE

FlexiFreezer Pro Freezer Dryer

Model	DG-65Z04-10AR
Ice Condenser Temperature (°C)	-65
Condensation Efficiency (kg/h)	4/24
Sound Level (dB(A))	≤60
Weight (kg)	80 (equipment)+25 (pump)
Ultimate Vacuum (Pa/mbar)	5/5*10 ⁻²
Maximum Condensation (kg)	4
Power (w)	950
Power Supply (V/Hz)	220-240/50
Freezer Cabinet Capacity (L)	13
Area (m²)	0.1
Shelves	3 layers (extensive)
Material Tray Diameter (mm)	φ200
Maximum Spacing Between Material Trays (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*760 (without pump)
Packing Dimension (W*D*H)(mm)	685*920*1250 (include pump)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch touch screen
Notepad	Yes
Account Management	Yes
USB	Yes
Flask	Optional
Certifications	CE

Model	DG-65Z04-10A
Ice Condenser Temperature (°C)	-65
Condensation Efficiency (kg/h)	4/24
Sound Level (dB(A))	≤60
Weight (kg)	145(equipment)+25(pump)
Ultimate vacuum (Pa/mbar)	5/5*10 ⁻²
Maximum Condensation (kg)	4
Power (w)	950
Power Supply (V/Hz)	220-240/50
Dry Chamber Interior Dimesion (W*D*H)(mm)	404*374*398
Dry Chamber Capacity (L)	60
Freeze Cabinet Capacity (L)	13
Area (m²)	0.1
Shelves	3 layers
Material Tray Diameter (mm)	Φ200
Maximum Spacing Between Material Trays (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*883 (without pump)
Packing Dimension (W*D*H)(mm)	665*900*1400 (include pump)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch touch screen
Notepad	Yes
Account Management	Yes
USB	Yes
Vacuum Pump Oil	Optional
Oil Mist Filter	Optional
Certification	CE

Model	HDG-86Z05-40T
BE No.	BE14T7000
Condensation Temperature (°C)	-86
Condensation Efficiency	4kg/24h
Sound Level (dB(A))	≤60
Weight (kg)	128 (Equipment)+25 (Pump)
Ultimate Vacuum (Pa/mbar)	5/5x10-2
Maximum Condensation (kg)	5
Power (W)	1060
Power Supply (V/Hz)	220-240/50
Dry Chamber Interior Dimension (W*D*H)(mm)	374*404*398
Dry Chamber Capacity (L)	60
Freezer Cabinet Capacity (L)	13
Area (m²)	0.4
Trays	4
Tray Dimension (W*D*H)(mm)	363*313*25
Maximum Spacing Between Tray (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*890 (excluding the manifolds)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch Touch Screen
Notepad	Yes
Account Management	Yes
USB	Yes
Automatic Defrost Function	Yes
Certification	CE

Product and Parameter Details

Pilot Freezer Dryer

Model	HDG-85Z10-50
Shelf Size	0.54m²
	Penicillin Φ12mm: Circa. 3600pcs
	Penicillin Φ16mm: Circa. 2000pcs
	Penicillin Φ22mm: Circa. 1000pcs
Cold Trap Temperature (°C)	-85
Sound Level (dB)	75
Cold Trap Cooling Speed	From +20°C to -45°C in 30 min
Shelf Cooling Speed	From +20°C to -40°C in 60min
Ice Condenser Capacity (kg)	10
Condensation Efficiency (kg/24h)	8
Ice Condenser Volume (L)	90
Shelf Temperature Uniformity (°C)	±0.5°C on same shelf
	±1°C for all shelves
Ultimate Vacuum (mbar)	0.005
Shelf Dimension (mm)	300*450
Shelf qty	4+1
Shelf Distance (mm)	80
Shelf Temperature (°C)	-60°C~60°C
Power (W)	5000
Exterior Dimension (W*D*H)(mm)	890*1660*1940
Weight (kg)	800
Power Supply (V/Hz)	220~240/50
Control System	PLC control
Vacuum Control	Leak control valve
Freezer Drying Curve & Records	Yes
Automated Program	Yes (Manually)
Penicillin Lid Press	Yes (Hydraulic)
N2 Back Fill System	Optional
Automatic Drainage	Yes
Frost Function	Heated water frost
Sample Emergency Protection	Constantly cooling the sample when vacuum exceeds limit
FDA 21 CFR Part 11	Optional
Drying end Point Judgment	Compliance
Eutectic Point test	Optional
Sterilization	Optional for H ₂ O ₂ Sterilizer
IQ/OQ Confirmation	Optional
Certification	CE

Controlled Rate Freezer

Model	CJ-L19	CJ-L37	CJ-L54
Effective Volume(L)	19	37	54
Temperature Range(°C)	-180~50		
Cooling Rate(°C/min)	0.1~99.9		
Heating Rate(°C/min)	0.1~12		
Temperature Uniformity(°C)	<2		
Power Supply (V/Hz)	220-50/60		
Display Screen	7 "colorful LCD touch screen		
Refrigerant	Liquid nitrogen		
Liquid Nitrogen Monitoring	Alarm reminder for liquid nitrogen less than 20%		
Exterior Dimensions (W*D*H mm)	775*571*527	941*571*527	1093*571*527
Interior Dimensions (W*D*H mm)	170*340*330	330*340*330	485*340*330
Packing Dimensions (W*D*H mm)	890*710*705	1050*700*705	1200*710*705
Net/Gross Weight (Kg)	66/106	73/114.5	84.5/118
Serial Port Form	USB Interface/RS232 serial port		
Accessories	1 Printer, 2 Sample probe		
Certification	CE		

Controlled Freezer - Thaw System

Model	HDR-80W300T	HDR-80W100T	HDR-80W200T	HDR-80W5T
Voltage (V/Hz)	380/50 3-PHASE	380/50 3-PHASE	380/50 3-PHASE	220/50
Case Size (L*W*H)(mm)	3100*1400*2300	2400*1900*2400	3100*1400*2300	800*1150*1700
Maximum Capacity (L)	300	100	200	≤5
Box Weight (approx.)(kg)	1700	/	/	300
Freezer-Thaw System	Contact Freezer-Thaw (Flat)			
Temperature Interval (°C)	-80~50			
Temperature Uniformity (°C)	±1			
Control Precision (°C)	±0.5			
Supported Bag Types	2D/3D single-use bags with hanger or tray support; ideal for cryogenic, cold chain, and bioprocess applications.			
Choose Accessories	Preventive Protection Mechanisms			
	Mixing Function			

» Biological Cultivation Equipment

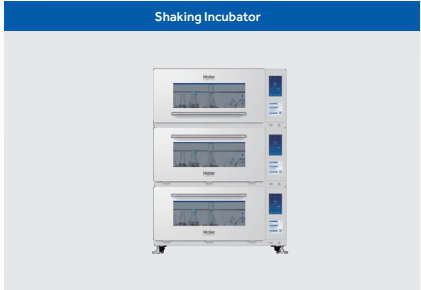
CO₂ Incubator



Water-Jacketed CO₂ Incubator



Shaking Incubator



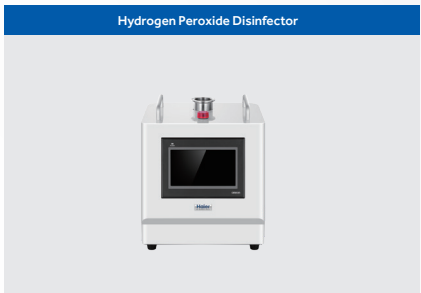
Standard Incubator



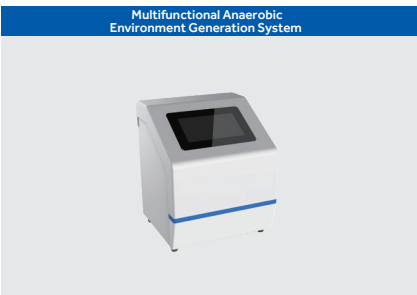
Cooler Incubators



Hydrogen Peroxide Disinfecter



Multifunctional Anaerobic Environment Generation System



Vertical Autoclave



Horizontal Bench-top Autoclave



Product and Parameter Details

CO₂ Incubator

Model	Capacity (L)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Shelf Dimensions W×D (mm)	Number of Partitions Standard/Max
HCP-80	80	625×684×735	400×420×490	380×300	3/8
HCP-168	170	714x812x887	490×560×650	473×434	3/11
HCP-258	258	794×867×985	570×610×745	550×484	3/13

Model	Capacity (L)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Shelf Dimensions W×D (mm)	Number of Partitions Standard/Max
HCP-80E	80	625×684×735	400×420×490	380×300	3/8
HCP-168E	170	714x812x887	490×560×650	473×434	3/11
HCP-258E	258	794×867×985	570×610×745	550×484	3/13

Water-Jacketed CO₂ Incubator

Model	Capacity (L)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Net/Gross Weight (kg)	Shelf Dimensions W×D (mm)	Number of Partitions Standard/Max	Humidity Control Range	Temperature Sensor
HCP-188W	185	680×635×998	540×506×679	120/140	473×445	4/17	93%RH±2.5	PT1000

Temperature Control Range	Temperature Fluctuation	Temperature Uniformity	Cooling Rate	Heating Mode	CO ₂ Sensor	CO ₂ Range	CO ₂ Accuracy	O ₂ Sensor	O ₂ Accuracy
Ambient Temperature +3-55℃	±0.1℃	±0.2℃	1h : ≤1℃ 10h : ≤7℃	Water-Jacket Heating	Infrared (IR)	0~20%	0.1%	ZrO2	0.1%

Shaking Incubator

Model	HYP-260Q	HYP-380Q	HYP-260C	HYP-380C
No-Load Shaking Frequency (rpm)	10-300 rpm (amplitude 26mm), customizable rotation speed down to 2rpm		10-300 rpm (amplitude 26mm), customizable rotation speed down to 2rpm	
	10-250 rpm (amplitude 50mm), customizable rotation speed down to 2rpm		10-250 rpm (amplitude 50mm), customizable rotation speed down to 2rpm	
Amplitude (mm)	26 (standard)/50 (optional)		26 (standard)/50 (optional)	
Shaking Frequency Accuracy (rpm)	±1		±1	
Temperature Control Range (℃)	4~65 (RT-20)		4~65 (RT-20)	
Temperature Field Uniformity (℃)	±0.3 (at37, RT22±3)		±0.3 (at37, RT22±3)	
Temperature Control Accuracy (℃)	±0.1		±0.1	
CO ₂ Sensor	-		Imported Infrared (IR) Detection	
CO ₂ Control Range/Accuracy			0~20%/0.1%	
Door Opening Recovery Time (at 5% CO ₂ concentration)	-		≤5min	
Humidity Range	-		Max Humidity ≥85%RH (at 37℃ with ambient temperature 22±3℃)	
Shaking Platform Dimensions (mm)	600×560	900×560	600×560	900×560
Internal Working Height (mm)	395		395	
Max Shake Flask Capacity (pcs)	250mL×38 500mL×23	250mL×60 500mL×28	250mL×38 500mL×23	250mL×60 500mL×28
Stainless Steel Clamps	1L×16	1L×24	1L×16	1L×24
	2L×9	2L×15	2L×9	2L×15
	3L×4	3L×8	3L×4	3L×8
	5L (Thomson)×4	5L (Thomson)×8	5L (Thomson)×4	5L (Thomson)×8

Standard Incubator

Product Model	Product Name	Capacity (L)	Power (W)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Packing Dimensions (W×D×H mm)	Number of Partitions (pcs)/Standard
HZP-168	Natural Convection Standard Incubator	168	640	650×782×1028	490×550×626	800×900×1200	2
HZP-80E		80	350	560×662×870	400×400×480	720×770×1060	2
HFP-168E	Forced Convection Standard Incubator	168	520	650×782×1028	490×550×626	800×900×1200	2
HFP-80		80	510	560×662×870	400×400×480	720×770×1060	2

Cooler Incubators

Model	Product Model	Capacity (L)	Power (W)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Shelf Dimensions W×D (mm)	Number of Partitions Standard/Max
HSP-160	Cooler Incubators	160	740	760×855×1375	520×520×610	850×930×1500	2
HSP-260	Cooler Incubators	260	870	760×855×1765	520×520×1000	850×930×1890	2

Hydrogen Peroxide Disinfector

Model	Voltage (V)	Power Capacity (VA)	Vaporization Rate (ml/min)	Max Vaporization Volume (ml)	Sterilization Time (h)	Sterilization Efficiency	Net/Gross Weight (kg)	External Dimensions (W×D×H mm)	Packaging Dimensions (W×D×H mm)
HGYX-Y100	220	700	1~10	500	<2	>99.9%	12/15	300×300×350	410×405×495

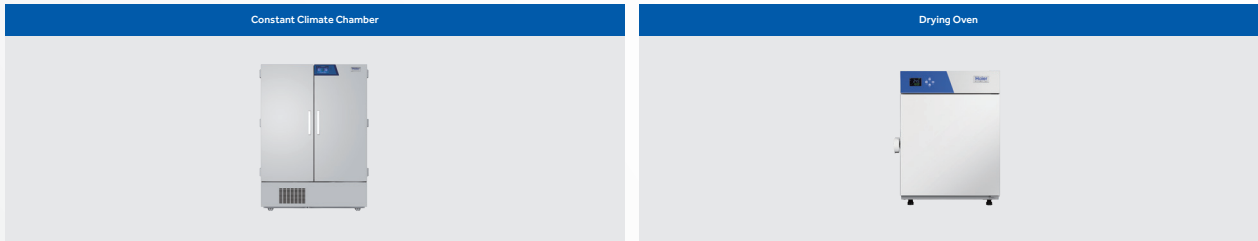
Vertical Autoclave

Model	Capacity (L)	Weight (Kg)	Power	External Dimensions (W×D×H mm)	Sterilization Chamber Dimensions (Diameter×Depth mm)	Design Pressure	Design Temperature	Rated Working Pressure	Pressure Display Range
HRLM-80	80	105	3400W	546×750×1085	φ386×695	0.28Mpa	150℃	0.22Mpa	-0.1—0.3Mpa
HRLM-60A	60	100	3400W	581×706×903	Φ386*520	0.28Mpa	150℃	0.22Mpa	-0.1—0.3Mpa
HRLM-80A	80	120	3400W	581×706×1020	Φ386*700	0.28Mpa	150℃	0.22Mpa	-0.1—0.3Mpa
HRLM-110A	110	145	7500W	640×640×1030	φ450x727	0.28Mpa	150℃	0.22Mpa	-0.1—0.3Mpa

Horizontal Bench-top Autoclave

Model	Capacity (L)	Weight (Kg)	External Dimensions (W×D×H mm)	Sterilization Chamber Dimensions (Diameter×Depth mm)	Design Temperature	Design Temperature	Rated Working Pressure
HRTM-18	18	47	490x600x455	Φ247x350	0.28Mpa	150℃	0.22Mpa
HRTM-23	23	53	490x690x455	Φ247x450	0.28Mpa	150℃	0.22Mpa
HRTM-45	45	120	640x840x575	Φ316x615	-0.1/0.3Mpa	150℃	0.22Mpa

Product and Parameter Details



Constant Climate Chamber (Eco-Friendly)

Model	Power Supply (V/Hz)	Capacity (L)	Net/Gross Weight	Interior Dimension (W*D*H)	Exterior Dimension (W*D*H)	Packing Dimension (W*D*H)
			kg	mm	mm	mm
HHS-256	220-240V~50/60Hz	256	175	650*570*700	835*890*1190	1030*955*1280
HHS-506	220-240V~50/60Hz	506	225	740*570*1200	930*890*1690	1110*955*1780
HHS-756	220-240V~50/60Hz	756	280	1100*570*1200	1290*890*1690	1380*955*1780

Constant Climate Chamber (Energy-saving)

Model	Power Supply (V/Hz)	Capacity (L)	Net/Gross Weight	Interior Dimension (W*D*H)	Exterior Dimension (W*D*H)	Packing Dimension (W*D*H)
			kg	mm	mm	mm
HHS-500	220-240V~50/60Hz	515	248	650*630*1260	1300*1000*1858	1080*1060*1990
HHS-810	220-240V~50/60Hz	816	320	1100*590*1260	1500*1000*1858	1495*1010*1990
HHS-1060	220-240V~50/60Hz	1070	360	1350*630*1260	1750*1000*1858	1780*1050*1990

Drying Oven

Model	Power Supply (V/Hz)	Capacity (L)	Net/Gross Weight	Interior Dimension (W*D*H)	Exterior Dimension (W*D*H)	Packing Dimension (W*D*H)	Number of Partitions (Standard/Max)	Partition Spacing (mm)
			kg	mm	mm	mm		
HZS-160E	220-240V~ 50/60Hz	160	99/110	550*492*600	752*809*973	920*890*1150	2/15	30
HZS-60	220-240V~ 50/60Hz	60	77/85	370*385*420	572*719*792	730*830*970	2/9	30
HFS-160	220-240V~ 50/60Hz	160	113/125	550*492*600	752*809*973	910*920*1140	2/15	30
HFS-60E	220-240V~ 50/60Hz	60	72/80	370*385*420	572*719*792	730*800*970	2/9	30

Walk-in Drug Stability Testing Chamber

Product Model	Internal Chamber Dimensions (mm)	External Chamber Dimensions (mm)	Door Dimensions (W×H mm)	Temperature Range	Temperature Uniformity	Temperature Fluctuation	Temperature Deviation
ZK-G15PYC***	Customizable Upon Demand	Customizable Upon Demand	800×1900	20~50℃	≤±2℃	≤±0.5℃	≤±1.0℃
Temperature Deviation	Temperature Display Accuracy	Relative Humidity Uniformity	Relative Humidity Fluctuation	Humidity Deviation	Humidity Display Accuracy	Total Installation Power	Power Consumption
0,1℃	20~85%R,H	≤±3,0%R,H	≤±2,0%R,H	≤±3,0%R,H	0,1%R,H	4~25KW	4~20KW

Walk-in Artificial Climate Chamber

Product Model	Temperature	Temperature Range	Temperature Fluctuation	Temperature Resolution Accuracy	Temperature	Temperature Range
ZK-G15PYC***	10℃~45℃	≤±1℃	≤±0,5℃	≤±0,5℃	45%~90%R,H	≤±5%R,H
Temperature Fluctuation	Humidity Resolution Accuracy	Lighting	Lighting Method	Fresh Air Exchange Rate	Chamber Noise	Average Energy Consumption
≤±5%R,H	≤2,5%R,H	350~780 μmol/m ² ,s	LED Lights/T5 or T8 Fluorescent	≥10 times/h, adjustable ventilation frequency	<55dB	4000 kWh/month

Biosafety Equipment



Ductless Fume Hood



Safety Storage Cabinets



Intelligent Central Control Platform



Laboratory Explosion-Proof Refrigerator



Product and Parameter Details

Class II Biosafety Cabinet

Model	Power Supply (V/Hz)	Main Filter Typical Efficiency	Exhaust Filter Typical Efficiency	Downflow Velocity (m/s)	Inflow Velocity (m/s)	Lighting Intensity (Lux)	Internal Dimension (W*D*H)	
							mm	in
HR30-IIA2	220-240/50/60	ULPA ,U15.99.9995%@0.12um	HEPA ,H14.99.995%@0.3um	0.30	0.53	≥1100	900*610*680	35.4*24.0*26.8
HR40-IIA2	220-240/50/60	ULPA ,U15.99.9995%@0.12um	HEPA ,H14.99.995%@0.3um	Standard 0.28 Optional 0.3	Standard 0.55 Optional 0.53	≥1200	1167*610*680	45.9*24.0*26.8
HR40-IIA2	115/60	ULPA ,U15.99.9995%@0.12um	HEPA ,H14.99.995%@0.3um	Standard 0.28 Optional 0.3	Standard 0.55 Optional 0.53	≥1200	1167*610*680	45.9*24.0*26.8
HR40-IIB2	220-240/50/60	ULPA ,U15.99.9995%@0.12um	HEPA ,H14.99.995%@0.3um	0.28	0.55	≥1200	1167*610*680	45.9*24.0*26.8
HR1500-IIA2	220-240/50	ULPA ,U15.99.9995%@0.12um	HEPA ,H14.99.995%@0.3um	0.31	0.55	≥900	1520*620*650	59.9*24.4*25.6
HR1200-IIA2	220-240/50	ULPA ,U15.99.9995%@0.12um	HEPA ,H14.99.995%@0.3um	0.34	0.55	≥900	1220*620*650	48.0*24.4*25.6
HR900-IIA2	220-240/50	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.33	0.55	≥900	920*620*650	36.2*24.4*25.6
HR700-IIA2	220-240/50	HEPA ,H14.99.995%@0.3um	ULPA ,U15.99.9995%@0.12um	0.30	0.53	≥780	600*550*540	23.62*21.65*21.26
HR1200-IIA2-D	220-240/50/60	ULPA ,U15.99.9995%@0.12um	HEPA×2 ,H14.99.995%@0.3um	0.30	0.45	≥1000	1310*620*635	51.6*24.4*25
HR1200-IIA2-S	220-240/50/60	HEPA ,H14.99.995%@0.3um	HEPA ,H14.99.995%@0.3um	0.30	0.45	≥1000	1310*620*635	51.6*24.4*25
HR900-IIA2-D	220-240/50/60	ULPA ,U15.99.9995%@0.12um	ULPA×2 ,U15.99.9995%@0.12um	0.30	0.45	≥1300	936*620*635	36.9*24.4*25
HR900-IIA2-S	220-240/50/60	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.30	0.45	≥1300	936*620*635	36.9*24.4*25
HR1800-IIA2-NIEU)	220-240/50/60	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.30	0.45	1133	1830*600*655	72.0*23.6*25.8
HR1500-IIA2-NIEU)	220-240/50/60	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.30	0.45	1396	1530*600*655	60.2*23.6*25.8
HR1200-IIA2-NIEU)	220-240/50/60	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.30	0.45	1317	1230*600*655	48.4*23.6*25.8
HR1800-IIA2-N(NSF)	100-230/50/60	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.35	0.53	1292	1830*600*650	72.0*23.6*25.6
HR1500-IIA2-N(NSF)	100-230/50/60	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.35	0.53	TBA	1530*600*650	60.2*23.6*25.6
HR1200-IIA2-N(NSF)	100-230/50/60	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.35	0.53	1323	1230*600*650	48.4*23.6*25.6
HR900-IIA2-N(NSF)	100-230/50/60	ULPA ,U15.99.9995%@0.12um	ULPA ,U15.99.9995%@0.12um	0.35	0.53	946	930*600*650	36.6*23.6*25.6

Model	External Dimension (W*D*H)		Packing Dimension (W*D*H)		Support Stand (mm)	Net/Gross Weight		Cooler load (20/40/740°F)	Certifications
	mm	in	mm	in		kg	lbs		
HR30-IIA2	1100*820*2200	43.3*32.3*86.6	1185*945*1750	46.7*37.2*68.9	680mm(standard), 680-900mm adjustable height (optional)	220/248	485/546.7	10/20/20	CE
HR40-IIA2	1360*820*2200	53.5*32.3*86.6	1445*945*1720	56.9*37.2*67.7	680mm(standard), 680-900mm adjustable height (optional)	258/305	568.8/672.4	8/16/16	CE
HR40-IIA2	1360*820*2200	53.5*32.3*86.6	1445*945*1720	56.9*37.2*67.7	680mm(standard), 680-900mm adjustable height (optional)	258/305	568.8/672.4	8/16/16	
HR40-IIB2	1360*820*2330	53.5*32.3*91.7	1445*945*1930	56.9*37.2*76.0	680mm(standard), 680-900mm adjustable height (optional)	252/308	555.6/679.0	8/16/16	CE
HR1500-IIA2	1680*845(790)*2160	66.1*33.5(31.1)*85.0	1785*932*1720	70.3*36.7*67.7	680-900mm adjustable height (standard)	350/393	771.6/866.4	6/12/12	CE/UKCA
HR1200-IIA2	1380*845(790)*2160	54.3*33.3(31.1)*85.0	1475*935*1720	58.1*36.8*67.7	680-900mm adjustable height (standard)	320/339	705.5/747.4	8/16/16	CE/UKCA
HR900-IIA2	1080*845(790)*2160	42.5*33.3(31.1)*85.0	1185*925*1720	46.7*36.4*67.7	680-900mm adjustable height (standard)	290/310	639.3/683.4	11/21/21	CE/UKCA
HR700-IIA2	700*720*1200	27.56*28.35*47.24	800*810*1385 825*820*1495 (with support)	31.5*31.9*54.5 32.5*32.3*58.9 (with support)	No.700mm(optional)	100/130	220.4/286.52	14/28/28	CE
HR1200-IIA2-D	1380*856(796)*1485	54.3*33.7(31.3)*58.5	1475*935*1720	58.1*36.8*67.7	No. 680-900mm adjustable height (optional)	320/339	705.5/747.4	8/16/16	CE/UKCA
HR1200-IIA2-S	1380*856(796)*2164	54.3*33.7(31.3)*85.2	1475*935*1720	58.1*36.8*67.7	680-900mm adjustable height (standard)	320/339	705.5/747.4	8/16/16	CE/UKCA
HR900-IIA2-D	1002*856(796)*1485	39.5*33.7(31.3)*58.5	1105*932*1730	43.5*36.7*68.1	No. 680-900mm adjustable height (optional)	290/320	639/705	11/21/21	CE/UKCA
HR900-IIA2-S	1002*856(796)*1485	39.5*33.7(31.3)*58.5	1185*925*1720	46.7*36.4*67.7	No. 680-900mm adjustable height (optional)	290/320	639/705	11/21/21	CE/UKCA
HR1800-IIA2-N(EU)	1936*845(790)*2120	76.2*33.3(31.1)*83.5	2038*945*1700	80.2*37.2*66.9	680-900mm adjustable height (standard)	380/465	838/1025	6/12/12	CE
HR1500-IIA2-NIEU)	1636*845(790)*2120	64.4*33.3(31.1)*83.5	1720*945*1700	67.7*37.2*66.9	680-900mm adjustable height (standard)	320/400	705/882	6/12/12	CE
HR1200-IIA2-NIEU)	1336*845(790)*2120	52.6*33.3(31.1)*83.5	1435*945*1700	56.5*37.2*66.9	680-900mm adjustable height (standard)	280/340	617/750	8/16/16	CE
HR1800-IIA2-N(NSF)	1940*850(790)*2160	76.4*33.5(31.1)*85	2038*945*1700	80.2*37.2*66.9	680mm(standard), 680-900mm adjustable height(optional)	375/460	827/1014	6/12/12	NSF
HR1500-IIA2-N(NSF)	1640*850(790)*2160	64.6*33.5(31.1)*85	1735*945*1700	68.3*37.2*66.9	680mm(standard), 680-900mm adjustable height(optional)	325/365	716.5/804.7	6/12/12	NSF
HR1200-IIA2-N(NSF)	1340*850(790)*2160	52.8*33.5(31.1)*85	1435*945*1700	56.5*37.2*66.9	680mm(standard), 680-900mm adjustable height(optional)	275/335	617/750	8/16/16	NSF
HR900-IIA2-N(NSF)	1040*850(790)*2160	40.9*33.5(31.1)*85	1135*945*1700	44.7*37.2*66.9	680mm(standard), 680-900mm adjustable height(optional)	225/265	496/584	12/24/24	NSF

Clean Bench

Series	Product Model	Power Capacity (VA)	Airflow Pattern	Airflow Pattern	Airflow Velocity (m/s)	Net/Gross Weight (kg)	Work Area Dimensions (W×D×H mm)	External Dimensions (W×D×H mm)	Packaging Dimensions (W×D×H mm)
SmartClean Series	HCB-1600VS	1200	Vertical Laminar Flow	0.20–0.50	≥1000	202/260	1600×510×550	1670×640×1820	1470 × 810 × 1290
	HCB-1300VS	1200	Vertical Laminar Flow	0.20–0.50	≥600	180/232	1300 × 510 × 550	1370 × 640 × 1820	1105 × 745 × 1280
	HCB-900V	1200	Vertical Laminar Flow	0.20–0.40	≥300	115/145	900 × 530 × 520	970 × 630 × 1730	1505 × 745 × 1280
Classic Series	HCB-1300V	1200	Vertical Laminar Flow	0.20–0.40	≥300	145/171	1300 × 530 × 520	1370 × 630 × 1730	1865 × 940 × 1370
	HCB-1600H	350	Horizontal Laminar Flow	0.20–0.40	≥1000	165/214	1710 × 550 × 750	1780 × 790 × 1960	

Sterile Isolator

Product Model	Power Capacity (VA)	Air Velocity (m/s)	Airflow Model	Cleanliness Level	Working Pressure Range (Pa)	Leakage Rate	External Dimensions (W×D×H mm)	Work Area Dimensions (W×D×H mm)
HGL-1800	220/50	0.45 ± 20%	Vertical Unidirectional Flow	GMP Grade A	0~80	<0.5% at test pressure	3000 × 860 × 2450	Operation Chamber: 1790×700×740 Transfer Chamber: 590×600×740

Ductless Fume Hood

Product Model	External Dimensions (W×D×H mm)	External Dimensions (W×D×H mm)	Power Capacity (VA)	Fluorescent lamp power(W)	Noise (dB(A))	External Dimensions (W×D×H mm)	Functional Configuration
HTF-1200W	1230×760×655	1336×780×2120	1200	12V 18W×2	≤58	0.4-0.6	10-inch Touch Screen, Human Sensor Module, Chemical Filter, VOC Sensor, Waterproof Timer Socket, Temperature & Humidity Sensor, Air Velocity Sensor, Electric Door (Optional), Epoxy Resin Work Surface (Optional), EC Fan with Low Noise and Long Lifespan

Safety Storage Cabinets

Model	HCS-004Y	HCS-012Y	HCS-022Y	HCS-030Y	HCS-045Y	HCS-060Y	HCS-090Y
Capacity	4Gal/15L	12Gal/45L	22Gal/83L	30Gal/114L	45Gal/170L	60Gal/227L	90Gal/340L
Door	Single	Single	Single	Double	Double	Double	Double
Shelve	1	1	2	2	2	2	2
Dimension (W*D*H)	430*430*560 (mm)	590*460*890 (mm)	590*460*1650 (mm)	1090*460*1120 (mm)	1090*460*1650 (mm)	860*860*1650 (mm)	1090*860*1650 (mm)
Net Weight	28 (kg)	48 (kg)	78 (kg)	88 (kg)	123 (kg)	144 (kg)	168 (kg)

Model	HCS-004B	HCS-012B	HCS-022B	HCS-030B	HCS-045B	HCS-060B	HCS-090B
Capacity	4Gal/15L	12Gal/45L	22Gal/83L	30Gal/114L	45Gal/170L	60Gal/227L	90Gal/340L
Door	Single	Single	Single	Double	Double	Double	Double
Shelve	1	1	2	2	2	2	2
Dimension (W*D*H)	430*430*560 (mm)	590*460*890 (mm)	590*460*1650 (mm)	1090*460*1120 (mm)	1090*460*1650 (mm)	860*860*1650 (mm)	1090*860*1650 (mm)
Net Weight	28 (kg)	48 (kg)	78 (kg)	88 (kg)	123 (kg)	144 (kg)	168 (kg)

Model	HCS-004G	HCS-012G	HCS-022G	HCS-030G	HCS-045G	HCS-060G	HCS-090G
Capacity	4Gal/15L	12Gal/45L	22Gal/83L	30Gal/114L	45Gal/170L	60Gal/227L	90Gal/340L
Door	Single	Single	Single	Double	Double	Double	Double
Shelve	1	1	2	2	2	2	2
Dimension (W*D*H)	430*430*560 (mm)	590*460*890 (mm)	590*460*1650 (mm)	1090*460*1120 (mm)	1090*460*1650 (mm)	860*860*1650 (mm)	1090*860*1650 (mm)
Net Weight	28 (kg)	48 (kg)	78 (kg)	88 (kg)	123 (kg)	144 (kg)	168 (kg)

Model	HCS-004P	HCS-012P	HCS-022P	HCS-030P	HCS-045P	HCS-060P	HCS-090P
Capacity	4Gal/15L	12Gal/45L	22Gal/83L	30Gal/114L	45Gal/170L	60Gal/227L	90Gal/340L
Door	Single	Single	Single	Double	Double	Double	Double
Shelve	1	1	2	2	2	2	2
Dimension (W*D*H)	560*430*430 (mm)	890*590*460 (mm)	1650*590*460 (mm)	1120*1090*460 (mm)	1650*1090*460 (mm)	1650*860*860 (mm)	1650*1092*860 (mm)
Net Weight	12.5 (kg)	21 (kg)	32 (kg)	40.5 (kg)	58 (kg)	68 (kg)	80 (kg)

Product and Parameter Details

Intelligent Central Control Platform

Specification Items	Specifications	HCC-006
Structure	Overall Structure	Benchtop Type
	External Dimensions (W×D×H)	428×432×511mm
Electrical Components	Touch Screen	15.6-Inch, 1920×1080 Resolution
	Main Control Board	8-Core Cortex A-53 CPU, 1.8GHz Frequency, Supports 16GB/32GB Memory, Integrated LTE Bands for IoT, and WiFi
Access Management	Fingerprint Recognition	Local Storage for 100 Fingerprints
	Facial Recognition	Security Chip Supports Multiple Encryption Algorithms: SM1, SM2, SM3, SM4, SHA, etc.; Supports Signing and Verification; Supports Multiple Security Certificates
	NFC	Supported Card Types: Contact: SAM Card Contactless: Mifare 1 S50, Mifare 1 S70, Mifare UltraLight, Mifare Desfire, PLUS CPU Card, ISO14443A-Compliant Logic Encryption Cards and CPU Cards, ISO14443B-Compliant Cards
Information Entry	RFID	High-Frequency Antenna
	Barcode Scanner Module	Supports 1D and 2D Barcodes
	Electronic Balance	Weighing Range: 6kg, Unit Accuracy: 0.1g

Product Model	Voltage (V/Hz)	Power (W)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Effective Volume (L)	Explosion-Proof Type	Explosion-Proof Rating	Number of Partitions (pcs)
HLR- 310FL	220/50	210	600×630×1840	525×500×1290	310	Internal Explosion-Proof	ExIICT6	4

Product Model	Voltage (V/Hz)	Power (W)	External Dimensions (W×D×H mm)	Internal Dimensions (W×D×H mm)	Effective Volume (L)	Explosion-Proof Type	Explosion-Proof Marking
HLRF-319SF	220V/50Hz	230W	765×660×1860	Refrigeration: 605×510×720 Freezing: 515×465×440	Refrigeration: 219 Freezing: 100	Internal Explosion-Proof	Ex ec ic IIC T6 Gc

Haier Biomedical Centrifuge Portfolio

Benchtop Centrifuges

Mini



LX-120T2Z
LX-50T2Z
12,000/5,000rpm, 8*1.5/2ml

Micro



LX-165T2-J
LX-165T2R
16,500rpm
12*5ml



LX-60T100-J
LX-185T100-J
LX-185T100R
6,000rpm
6*100ml

Micro



LX-60T100R
6,000rpm
6*100ml

Compact Hydrocarbon-Cooled



LX-60T100R
6,000rpm
6*100ml

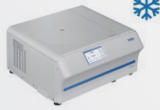
General Purpose



LX-155T500R
15,500rpm
4*500ml



LX-60T500-J
6,000rpm
4*500ml



LX-155T750R
15,500rpm
4*750ml



LX-60T750R
6,000rpm
4*750ml

Floor-standing centrifuges

Blood Banking



LX-60L1000R
6,000rpm, 6*500ml Blood Bags



LX-75L2400R
7,500rpm, 16*500ml Blood Bags

Bioprocessing



LX-100L1000R
10,000rpm, 6*1000ml



LX-210L750R
21,000rpm, 6*500ml / 4*750ml

Floor-standing Centrifuge

Model	Max Speed (rpm)	Max RCF(xg)	Maximum Capacity (ml)	Temperature Range (°C)	Display	Noise(dB)	Power Supply (V/Hz)	Net/Gross Weight(kg)	Exterior Dimensions (W*D*H)(mm)	Packing Dimensions (W*D*H)(mm)
LX-75L2400R	A7500	13376	8×2000ml or 16×500ml blood bags	-20~40	10-inch LCD screen	≤65	3~400V 50/60	670/750	900*1050*1020	1092*1279*1720
LX-60L1000R	6,000	6,279	6×1000ml or 6×500ml blood bags	-20~40	7-inch LCD screen	≤54	220~240/50/60	338/423	740*920*990	940*1150*1270
LX-210L750R	21000	47400	4×750ml or 6×500ml	-20~40	7-inch LCD screen	≤65	220~240/50/60	375/470	920*740*990	1150*940*1270
LX-100L1000R	10000	18590	6x1000ml	-20~40	7-inch LCD screen	≤65	400V 3N-50/60	380/475	920*740*990	1150*940*1270

Benchtop Centrifuge

Model	Max Speed (rpm)	Max RCF(xg)	Maximum Capacity (ml)	Temperature Range (°C)	Display	Noise(dB)	Power Supply (V/Hz)	Net/Gross Weight(kg)	Exterior Dimensions (W*D*H)(mm)	Packing Dimensions (W*D*H)(mm)
LX-155T750R	15500	26322	4×750ml	-20~40	7-inch LCD screen	≤59	220~240/50/60	115/140	680*715*375	820*800*580
LX-155T500R	15500	26322	4×500ml	-20~40	7-inch LCD screen	≤55	220~240/50/60	112/133	658*673*358	741*799*555
LX-60T750R	6000	5353	4x750ml	-20~40	7-inch LCD screen	≤63	220~240/50/60	115/140	680*715*375	820*800*580
LX-60T500-J	6000	5353	4×500ml	/	LED	≤65	220~240/50/60	60/75	478*624*365	560*752*562
LX-185T100R	18500	30130	6×100ml	-20~40	7-inch LCD screen	≤52	220~240/50/60	57/73	420*680*330	508*806*528
LX-185T100-J	18500	30130	6×100ml	/	LED	≤63	220~240/50/60	47/51	440*600*346	495*670*380
LX-60T100-J	6000	4749	6×100ml	/	LED	≤56	220~240/50/60	25/28	340*447*281	441*544*421
LX-60T100R	6000	3578	6×100ml	-20~40	7-inch LCD screen	≤32 with fixed-angle 24x1.5≤52 with swing-out 4x100	220~240/50/60	46/61	420*680*330	528*806*508
LX-165T2R	16500	25872	12×10ml	-20~40	7-inch LCD screen	≤52	220~240/50/60	34/48	340*625*248	425*795*430
LX-165T2-J	16500	25872	12×5ml	/	LED	≤58	220~240/50/60	18/20	270*375*252	375*560*370
LX-120T2Z	12000	7325	8×1.5/2ml	/	OLED	≤50	100~240/50/60	1.2/3	152*142*122	265*205*200
LX-50T2Z	5000	1270	8×1.5/2ml	/	-	≤40	100~240/50/60	1.2/3	152*142*122	265*205*200

Product and Parameter Details

Cell Preparation/QC/Auxiliary Equipment

Bioreactor



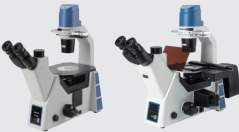
Cell Separation and Concentration System



Microbial Cultivation System



Microscope



Cell Counter



Ultra-Micro Spectrophotometer



PCR Instrument



Bioreactor

External Dimensions (W×D×H)		Weight	Power Supply		Working Volume	
906×630×561mm	Pump System	Net Weight of Entire Unit	—		Achievable Working Volume	
	4 Groups	40Kg	220V 50Hz		20mL to 10L	

Temperature				Speed	
Temperature Control	Temperature Fluctuation (at 37℃)	Temperature Uniformity (at 37℃)	Heating Time (from Ambient to 37℃)	Speed	Speed Accuracy
Ambient Temperature +2℃ to 40℃	±0.2℃	≤±0.5℃	≤60min	1-23 (r/min)	±0.2rpm

Tilt Angle	Load Capacity	Gas			pH	DO
Load Capacity	Max Load	Gas Control Range	Gas Control Accuracy	CO ₂ Concentration Range	Controllable Range/ Accuracy	Controllable Range
1-12° ±0.2°	20kg	0.02-0.5L/min	±(20+5% of Set Value)	0~30%VOL	5-9/±0.05	0-200%/±3%

Weighing		Pump System			
Controllable Range/Accuracy		Pump Flow Rate Range		Pump Flow Rate Accuracy	Cumulative Pump Volume Accuracy
Maximum 50kg/10g		0.1~30mL/min		(0.1±5% of Reading)	±10% Measure volume

Cell Separation and Concentration System

Product Model	External Dimensions (W×D×H)	Equipment Weight	Separation System	Max Centrifugal Force	Centrifugation Bucket	Operating Temperature
HYE.CS-03	470mm×558mm×899mm	<30KG	Fully Enclosed Piston-Type Centrifugation Bucket	1230g	300mL	+10℃~+30℃

Product Model	Centrifugal Force	Average Concentration Efficiency	Pump Speed	Concentration Volume
HYE.CS-20	200-2000×g (Adjustable)	10L/h	50-300mL/min (Adjustable)	300mL-1.5L

Product Model	Throughput	Application	Filling Volume	Thawing Time	Alarms
HYE.G002	2 Wells, Each Can Be Used Independently	Standard 2mL Cryo-Tubes	0.8-1.5mL	Within 3Min	Low Temperature Alarm, Incorrect Operation Alarm

Audible Prompts	Thawing Completed	Voltage	Dimensions (W×D×H) mm	Weight
Yes, Includes: Preheating Completion Prompt, Thawing Countdown Prompt, Thawing Completion Prompt	Direct Ejection of Cryo-Tubes	220V	230×140×160	3.5kg

Microbial Cultivation System

Sample Types	Sample Loading Method	Culture Medium Volume	Detection Method	Power Supply Voltage
Blood Samples, Sterile Body Fluids	Random Access Loading	Aerobic/Anaerobic Bottles: 80ml, Half-Volume Bottles: 40ml	CO ₂ Sensing	AC~220V±22V; 50Hz±1Hz

Noise Index	Operating System	Sample Capacity	Power	Sample Volume
≤80dB	Chinese OS, LIS System Compatible	120、150、180	≤3000W	Adults: 5ml-10ml, Children: 1ml-5ml

Mixing Method	Culture Bottle Models	External Dimensions (W×D×H)
Magnetic Stirring	Aerobic Culture Bottles, Anaerobic Culture Bottles, Half-Volume Culture Bottles	825×1100×1650mm

Optical System	Observation Head	
Infinity Chromatic Aberration Correction System	Trinocular Observation Tube, 45° Inclined, 360° Rotatable Hinge Group, Fixed Eyepiece Tube, Interpupillary Distance Adjustment Range: 50-75mm, Two-Position Beam Splitter Ratio: Binocular:Trinocular = 100:0 or 0:100	Trinocular Observation Tube, 45° Inclined, 360° Rotatable Hinge Group, Fixed Eyepiece Tube, Interpupillary Distance Adjustment Range: 50-75mm, Two-Position Beam Splitter Ratio: Binocular:Trinocular = 20:80

Eyepiece		Objective Turret	
High Eye-Point Wide-Field Plan Eyepiece PL10X/22mm, Diopter Adjustable, with Micrometer Scale Optional	High Eye-Point Wide-Field Plan Eyepiece PL15X/16mm, Diopter Adjustable	Internal 5-Hole Turret	Internal 4-Hole Turret

Objectives			
Ultra-Long Working Distance Infinity Plan Achromatic Objectives (4X、10X、20X、40X、60X)	Ultra-Long Working Distance Plan Achromatic Phase Contrast Objectives (4X、10X、20X、40X)	Ultra-Long Working Distance Infinity Plan Fluorescence Objectives (4X、10X、20X、40X、60X)	Ultra-Long Working Distance Infinity Semi-Apochromatic Objectives (20X、40X)

Product and Parameter Details

Frame		
Transmitted Light Biological Frame: Low-Position Coaxial Coarse/Fine Focus, Coarse Travel: 9mm (6.5mm Upward, 2.5mm Downward), Fine Focus Precision: 0.002mm, Anti-Slip Tension Adjustment Knob, External Wide-Voltage Transformer (Input: 100-240V, Output: 12V5A), Infrared Sensor Function, Transmitted Illumination with Brightness Indicator Bar		
Transmitted/Reflected Frame: Low-Position Coaxial Coarse/Fine Focus, Coarse Travel: 9mm (6.5mm Upward, 2.5mm Downward), Fine Focus Precision: 0.002mm, Anti-Slip Tension Adjustment Knob, 4-Slot Fluorescence Filter Set Design; Fixed Stage Dimensions: 215(W)×250(L)mm. External Wide-Voltage Transformer (Input: 100-240V, Output: 12V5A), Infrared Sensor Function, Transmitted/Reflected Illumination with Brightness Indicator Bars		
Transmitted Illumination System	Reflected Fluorescence Illumination System	
Transmitted Light Source: Cool/Warm Selectable (Cool: 4750-5500K)	Kohler Illumination, 5W LED with Three Light Sources (385nm, 470nm, 560nm), Equipped with UV1, B1, G1 Fluorescence Filter Sets Respectively, Pre-Centered, Servo Motor-Controlled Automatic Light Source Switching with Filter Sets	
Stage		
215×250mm Fixed Stage, Optional Mechanical Stage (Travel Range: 120×80mm), Stage Extension Plate, Slide Holder, Ø35 Petri Dish Holder, Teraseki Holder, Oval-Hole Metal Stage Plate, Glass Stage Plate		
Condenser	Photography Accessories	Others
Numerical Aperture N.A.=0.3, Long Working Distance WD72mm, Detachable	0.35X, 0.5X, 0.65X, 1X, C-Mount Interface, Adjustable Focus	Color Temperature Conversion/Green Contrast (Ø45mm), Phase Contrast Slider Set, Marker Lens, Smartphone Photography Adapter

Cell Counter

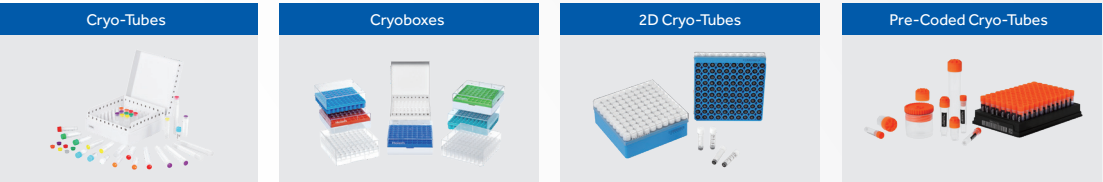
Product Model	Cell Concentration	Cell Diameter	Sample Volume	CV Value
HY.Y.CC	1×10 ⁴ –3×10 ⁷ /ml	03/06/12 Tank Sets (1 set each)	25 uL	≤5%
Single Sample Measurement Time	Number of Samples Measured per Counting Slide	External Dimensions (W×D×H)	Weight	
2s	6 pcs	97×255×164mm	1.8KG	

Ultra-Micro Spectrophotometer

General Specifications								
Light Source	Detector	Wavelength Range	Wavelength Accuracy	Wavelength Resolution	External Dimensions (W×D×H)	Weight	Power Supply Voltage	Power
Xenon Lamp	CCD (2048 pixels)	190–1100nm	± 1nm	0.3nm	220 × 280 × 220mm	3KG	100–240V 50–60Hz	80–100W
Ultra-Micro Detection Mode Specifications								
Absorbance Accuracy	Absorbance Range	Detection Limit	Detection Upper Limit	Measurement Time	Minimum Sample Volume	Optical Path Length		
1%@100ng/ul	0-300Abs (10mm equivalent)	2ng/ul (dsDNA)	15000ng/ul (dsDNA)	5s	1ul	0.01-1.2mm (Automatic Path Length)		
Cuvette Detection Mode Specifications								
Beam Height		Absorbance Range		Measurement Time		Optical Path Length		
8.5mm		0.002–2.0Abs		3s		10mm		

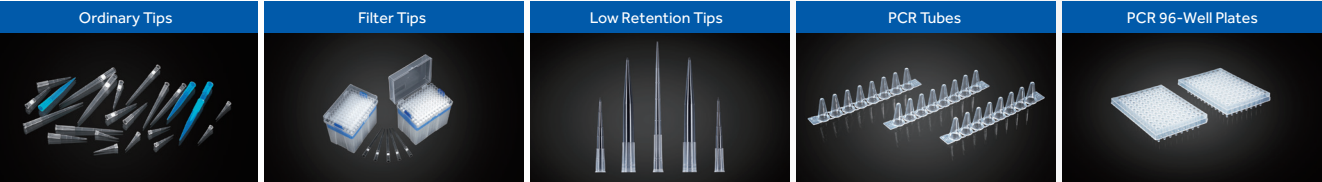
Pre-Processing Equipment

Cryopreservation Consumables



Pipette Tip Series

PCR Series



Centrifuge Tube Series



Cold Chain Transport Equipment

