Haier Biomedical
Intelligent Protection of Life Science



Comprehensive Equipment& Solutions

Biopharma Solutions for a Better Tomorrow
Advancing Biopharma Together

Your Haier Biomedical Partner

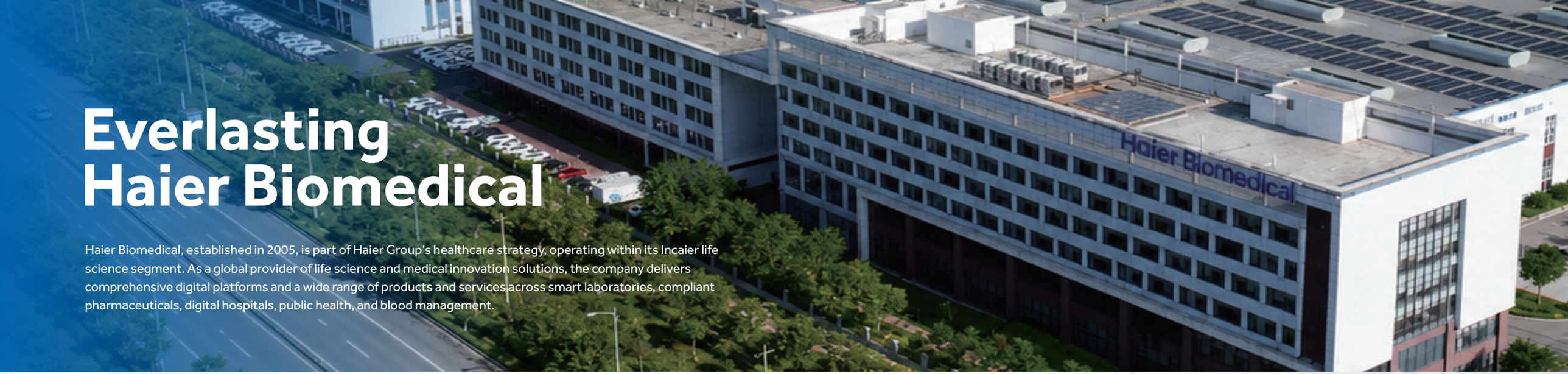
Haier Medical & Laboratory Solutions America LLC

Website: www.haiermedical-usa.com

Sep, 2026

Haier Biomedical
Intelligent Protection of Life Science

Haier Biomedical USA
Haier Biomedical International
Haier Biomedical International
Haier Biomedical International
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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.

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

Research	Pilot & Development	Industrial Production	
Research Applications	Cell Therapy	Production: Antibodies & Vaccines	Formulation
	Pilot: Antibodies & Vaccines	Quality Control	
	Haier Biomedical Biopharma Solutions System		

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

Batch Execution

Production Monitoring

Plan Templates

Process Step Execution

Release Management

Disposal Results

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

Cold Chain Transportation

01-02



Cold Chain Transport Cooler

01-02



Aviation Cold Chain Transport Cooler

Primary Separation/Sorting

01-03.1



Benchtop Centrifuge

01-04



Biosafety Cabinet

Gene Editing/Primary Culture

01-04



Biosafety Cabinet

01-06



CO_2 Incubator

01-07



Automated Cell Workstation

01-03.1



Benchtop Centrifuge

Cell Expansion

01-06



CO_2 Incubator

01-16



Shaking Incubator

01-07



Automated Cell Workstation

Quality Control

01-10



Cooler Incubators

Concentration and Filling

01-03.2



Floor-Standing Centrifuge

Cell Storage

01-12



Ultra-Low Temperature Freezer

01-13



Controlled Rate Freezer

01-14



Liquid Nitrogen Tank

01-01



Smart Cell Management Platform

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



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 – CO_2 Incubator

01-06



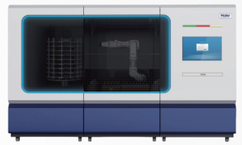
Model: To be determined based on user requirements
Application: Culture and expansion of cells from various sources
Stable culture conditions ensure reliable cell growth
Rapid recovery reduces downtime and risk of culture loss
Accurate CO_2 control delivers consistent results across experiments
Advanced sterilization safeguards cell quality and reduces contamination risks

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 CO_2 Incubator

01-06



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

End-to-End Cell Therapy Solutions

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

Integrated Solutions for Cell Thawing and Expansion

Solution Overview

02-01



Smart Cell Management Platform

- Cell Storage
  - 02-02 Ultra-Low Temperature Freezer
  - 02-03 Liquid Nitrogen Tank
- Cell Thawing
  - 02-05 Biosafety Cabinet
- Cell Expansion
  - 02-06 CO_2 Incubator
  - Consumables
- Primary Separation/Sorting

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

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

CO_2 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 CO_2 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

Controlled Freezing and Thawing for Scalable Biopharma

An integrated solution covering every step of the freezing–thawing workflow: from controlled freezing and safe transport through to ultra-low temperature storage and reliable thawing for formulation. Each stage is designed to maximize product stability, safety, and compliance.

Solution Overview

Bulk Production and Filling

Transport

03-01



Transport Cart

Freezing Process

03-02



Controlled Freezer-Thaw System

International Air Transport

03-03



Active Temperature-Controlled Air Cargo Cooler

Transport

03-01



Transport Cart

Ultra-Low Temperature Storage

03-04



Ultra-Low Temperature Freezer

Transport

03-01



Transport Cart

Thawing Process

03-02



Controlled Freezer-Thaw System

Formulation Production

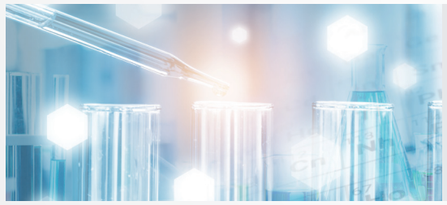
Controlled Freezing and Thawing for Scalable Biopharma

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

03-01

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

03-02



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

03-03



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

03-04





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

Data Source: Haier Biomedical User Experience Center

02

Quality Control & Testing Solutions

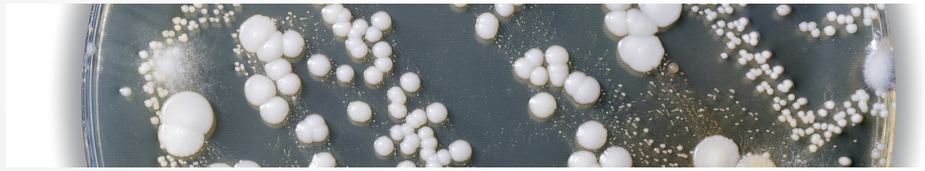
Integrated Culture Media Solutions for QC

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**



04-02 **Surface Bacteria**



04-03 **Sample Preparation and Dilution**



04-04 **Product Sterility Testing**



04-05 **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

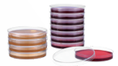
Complete certificates and validation documents for regulatory assurance
Stable, reproducible results minimize batch variability
GMP-compliant processes ensure global audit readiness



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%

Data Source: Haier Biomedical User Experience Center

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. Optional PC software, comply with FDA 21 CFR Part 11 requirements.
7. Optional 20-position autosampler.
8. All records can be traced by searching test date.
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-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

TOC Testing Solution for Pharmaceutical Water & Cleaning Validation

HTOC-5000



Features:

1. Auto sample dilution, auto acid-adding and auto gas purging.
2. 680°C 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.

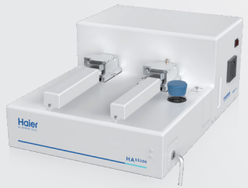
Model	HTOC-5000
Measurement Method	High Temperature Catalytic Combustion
Detector	NDIR
Analysis Parameter	TC, TIC, TOC , NPOC
Control Mode	PC software controlled
Gas Requirement	Oxygen, purity ≥99.995%
Sample Type	Liquid sample (AS-W20 is optional.) Solid sample (AS-S200 is needed.)
Measurement Range	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

HX-6/HX-8/HX-9/HQ-6



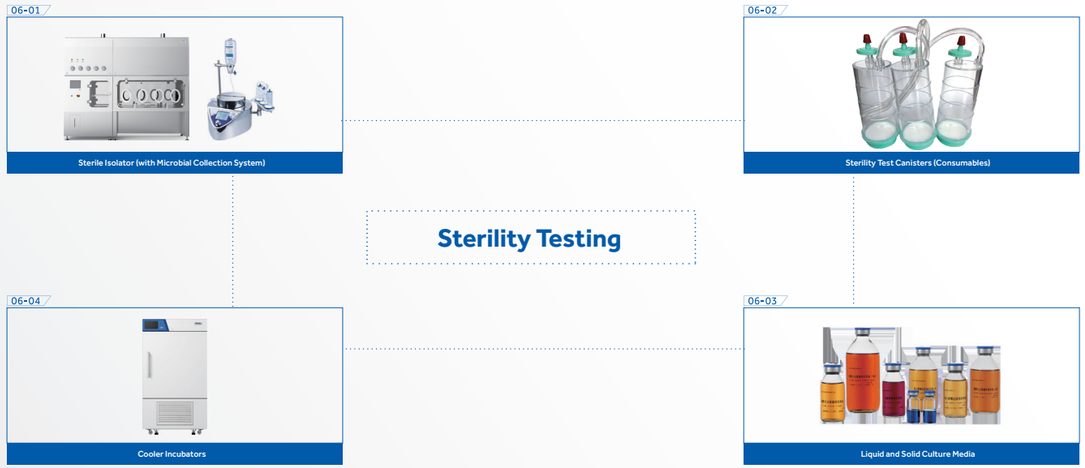
Features:

1. Large HD Smart Touch Screen
2. Stand-Alone System with Multi Functions
3. Automatic 8-position Cell Holder
4. Easy Printing
5. USB Port, Fast Data Output
6. USB Port, Fast Data Output
7. Optional Bluetooth Module and PC software

Model		HX-6	HX-8	HX-9	HQ-6
Light Source		W Lamp & D2 Lamp			W Lamp & D2 Lamp & Mercury Lamp
Wavelength Range		190-1100nm			190-900nm
Bandwidth		1.8nm	1.8nm	0.5/1/2/4 nm	Continuously adjustable from 0.1nm to 5nm, 0.1nm interval
Optical System		Single Beam	Double Beam	Double Beam	Double Beam
Display		7-inch Touch Screen	10-inch Touch Screen		/
Wavelength Accuracy		±0.5nm	±0.1nm at D2 656.1nm, ±0.3nm at full range		±0.3nm
Wavelength Repeatability		≤0.2nm	≤0.1nm		≤0.1nm
Photometric Accuracy		±0.3%T (0-100%T); ±0.002Abs (0-0.5Abs); ±0.004Abs (0.5-1.0Abs)			±0.3%T
Photometric Repeatability		≤0.1%T (0-100% T); ≤0.001Abs (0-0.5Abs); ≤0.002Abs (0.5-1.0Abs)			
Stability		≤0.001A/h@250nm & 500nm, 2hrs warm-up			≤0.0001A/h
Photometric Range		-0.3-3A, 0-200%T, 0-9999C			-4 - 6 Abs, 0-1000000%T
Stray Light		≤0.05%T at 220nm & 360nm			≤0.005%T at 220nm & 360nm
Control Mode		Stand-alone System or PC Software (Optional)			PC Software Controlled
Data Output		USB Port or Bluetooth (Optional)			PCO
Power Requirement		AC 110/220V, 50/60Hz			AC110/220V, 50/60Hz
Standard Accessories	Spectrophotometer (unit)	1			1
	PC software (set)	/			1
	1cm Glass cuvette (pcs)	4			4
	1cm Quartz cuvette (pcs)	2			2
	Power cord (pcs)	1			1
	User's manual (pcs)	1			1
	Dust cover (pcs)	1			1

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

Drug Stability Testing

Solution Overview

API/Formulations/Biological Products

Sample Receiving



Stability Study & Testing

07A-01
Forced Degradation Studies
Accelerated Testing
Intermediate Testing
Long-term Testing

07A-02
Photostability Testing

7A-03



Review & Release

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)

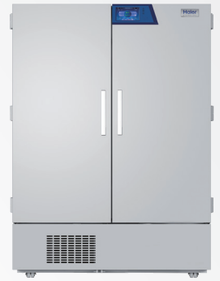
07A-01



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

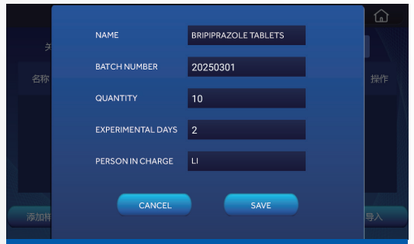


Model: ZK-G15PYC***
Application: Stability study & testing
Features:
① Customizable with intelligent management
② Complies with pharmacopoeia, GMP, ICH, JJF 1101-2019 requirements and GB10586-2006 damp heat test chamber technical requirements
③ Cloud management platform: Full lifecycle drug management

Pharmaceutical Packaging Material Stability Testing

Management Software Configuration

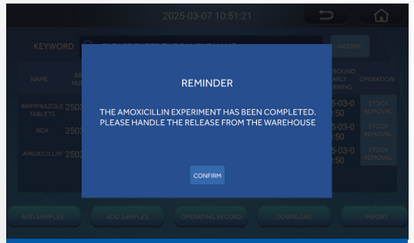
Smart sample management and electronic records (authentic, tamper-proof), addressing pain points in long-cycle drug stability testing operations for efficient compliance



1. Sample input



2. Detailed overview



3. Early warning and expiration reminders



4. Batch-based bulk downloading

Solution Overview

Medium/High Borosilicate Glass Vials/Rubber Stoppers for Injection/Multilayer Co-extruded IV Bags

Packaging Material Receiving



Temperature Stability Testing

07B-01



Freezer Resistance Test (-41°C±2°C)
Temperature Adaptability Test (-35°C±2°C)
Drop Resistance Test (-25°C±2°C)

Review & Release

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



03 Pilot & Development

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.

Bulk Preparation & Potency Evaluation

- Biosafety Cabinet
- Benchtop Centrifuge
- CO_2 Incubator
- Controlled Rate Freezer

Aseptic Bulk Filling → Loading & Freezer-Drying

Filling & Isolation & Freezer-Drying Customized Linkage

- 08-01 Filling Machine/Peristaltic Pump
- 08-02 Isolator
- 08-04 Hydrogen Peroxide Sterilizer
- 08-03 Pilot Freezer Dryer

Low-Temperature Storage

- 08-05 Low-Temperature Freezer

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



Data Source: Haier Biomedical User Experience Center

Integrated Freezer-Drying for Pilot and Process Development

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

Centrifugation Solutions for Pilot and Scale-Up

Haier Biomedical's centrifugation solutions support the entire pilot-scale process — from cell harvesting and disruption to purification and sample preparation. Designed for flexibility and reliability, these systems ensure consistent performance across small-volume pilot runs through to larger-scale processing.

Solution Overview

Fermentation broth pretreatment: Heating/pH adjustment/flocculation

Cell harvesting

09-01



Floor-Standing Centrifuge

09-02

Centrifuge Bottles

09-04



Centrifuge Bottles

Cell disruption: Homogenization/grinding/lysis

Sample Receiving

09-05



Floor-Standing Centrifuge

09-06



Centrifuge Bottles

09-07



Centrifuge Bottles

Primary purification → High-level purification → Finished product processing

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



Data Source: Haier Biomedical User Experience Center

Centrifugation Solutions for Pilot and Scale-Up

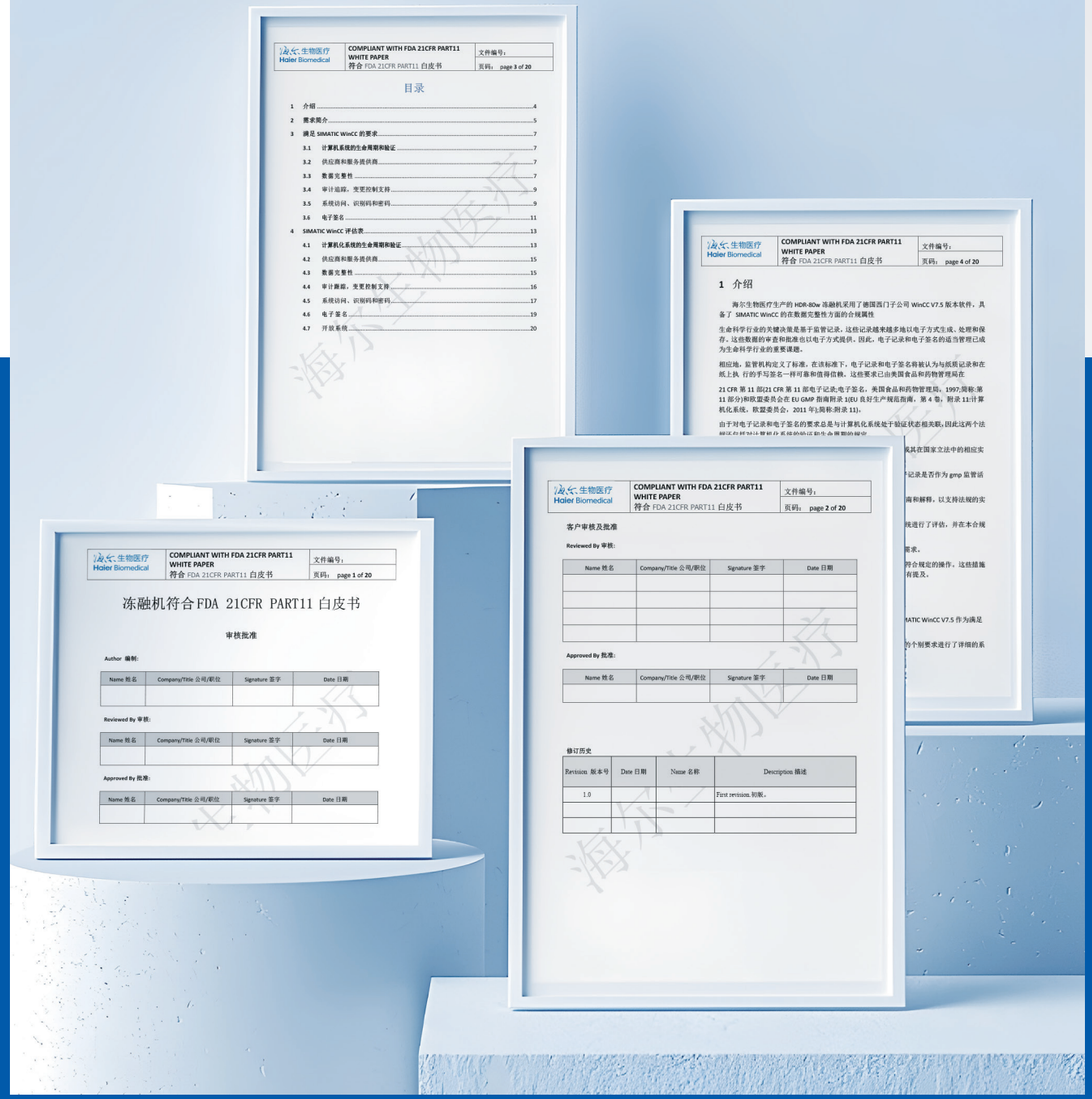
Solution Product Configuration



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

GMP Compliance & Validation Assurance

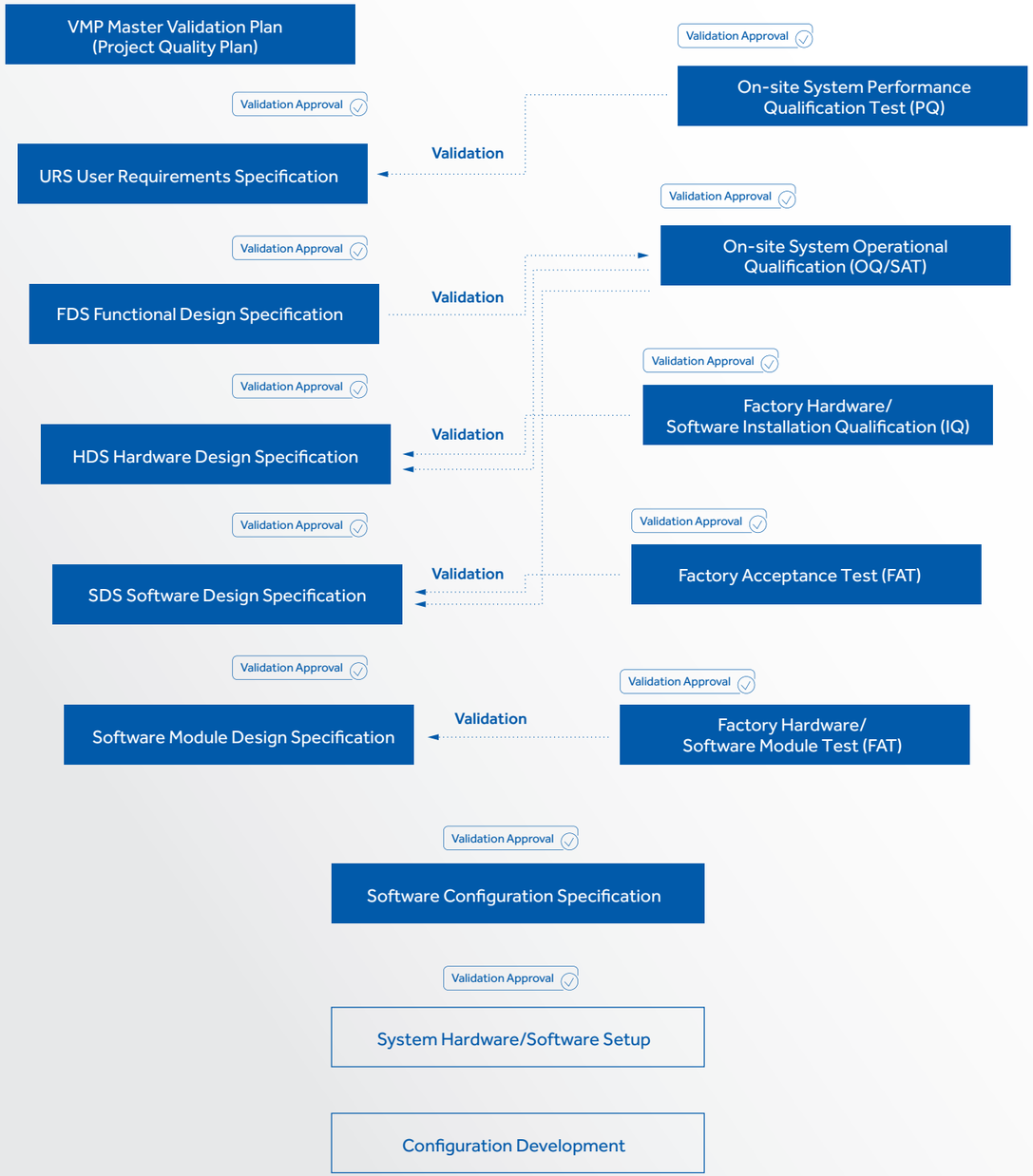
Ensuring Audit-Ready Documentation
Haier Biomedical provides full documentation aligned with 21CFR Part 11 and GAMP5 standards, including electronic signatures, traceable records, and audit trails. This ensures customers have the right validation evidence in place to meet global regulatory inspections.



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

Service Cases

Win-win cooperation

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

MERCK · ChemPartner Dedicated to LifeScience · ZFSW The Biologics Company · Boehringer Ingelheim · Henlius
BeiGene · CARSGEN THERAPEUTICS · Abbott · MINHAI 民海生物 MINHAI BIOTECHNOLOGY CO., LTD · SINOVAC 科兴
中国生物 CNBG · 康希诺生物 CanSinoBIO · YEBIO 易邦生物 · 金宇保灵生物药品有限公司 THE SPIRIT JINYU BIOLOGICAL PHARMACEUTICAL CO.,LTD · WALVAX 沃森生物
齐鲁制药 QILU PHARMACEUTICAL · WALVAX 沃森生物 WALVAX BIOTECHNOLOGY CO., LTD. · 天晴干细胞 Tian Qing Stem Cell · 赛莱拉干细胞 SALIAI · 银丰生物集团 YINFENG BIOLOGICAL GROUP
圣释 SCLnow · 汇欣生命 HUIXIN LIFE · GenSci 金赛药业 · 辽宁成大 LIAONINGCHENGDA · SPH 上海医药 SHANGHAI PHARMA
信 SINE · 上海恒瑞医药有限公司 Hengrui SHANGHAI HENGRUI PHARMACEUTICAL CO.,LTD · 药明康德 WuXi AppTec · Innovent 信达生物制药 · 君实生物 TopAlliance
金斯瑞生物科技 Make Research Easy · 華蘭生物 HUALAN BIO · RemeGen 荣昌生物 · AIM 艾美疫苗 · GDK 金迪克生物 GDK BIOTECHNOLOGY
康泰生物 BIOKANGTAI · BCHT 百克生物 · 丽珠医药 LIVZON

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.





CNAS



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

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

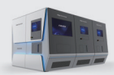
07

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/m²

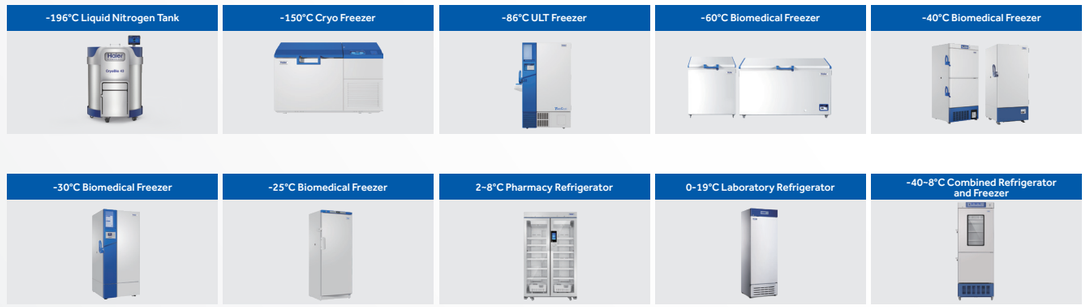
Model	Automation Level	Load Requirement (kg/m²)	Capacity	Consumable Compatibility	Network Interface	Future Upgrades
HAB80-29KB	Full-box	⩾500	40,000 standard 2ml SBS sample tubes	Compatible with Various Brand Consumables	RJ45 Cable Network Available	Compatible with additional automated upgrade accessories

-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℃	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℃	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℃	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℃	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



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

CO_2 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

LN_2 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



HDG-86Z03-12T

Floor-Standing

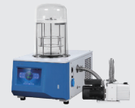


HDG-86Z04-12



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 (m^2)	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
Certifcations	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 (m^2)	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 (m^2)	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_2O_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 Disinfector



Multifunctional Anaerobic Environment Generation System



Vertical Autoclave



Horizontal Bench-top Autoclave



Product and Parameter Details

CO_2 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 CO_2 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) Stainless Steel Clamps	250mL×38 500mL×23 1L×16 2L×9 3L×4 5L (Thomson) ×4	250mL×60 500mL×28 1L×24 2L×15 3L×8 5L (Thomson) ×8	250mL×38 500mL×23 1L×16 2L×9 3L×4 5L (Thomson) ×4	250mL×60 500mL×28 1L×24 2L×15 3L×8 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



Drying Oven



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 μ mol/m².s	LED Lights/T5 or T8 Fluorescent	≥10 times/h, adjustable ventilation frequency	<55dB	4000 kWh/month

Product and Parameter Details

Biosafety Equipment





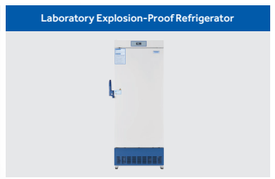












Class II Biosafety Cabinet

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-N(EU)	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-N(EU)	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-N(EU)	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'/40'H)	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)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-N(EU)	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-N(EU)	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	1600x510x550	1670x640x1820	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: 1790x700x740 Transfer Chamber: 590x600x740

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	1230x760x655	1336x780x2120	1200	12V 18Wx2	≤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

Product and Parameter Details

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)

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 forWiFi
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
16,500rpm
12*5ml



LX-165T2R
16,500rpm
12*10ml

Micro



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



LX-185T100-J
18,500rpm
6*100ml



LX-185T100R
18,500rpm
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

Product and Parameter Details

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

QC Equitment

UV- Vis Spectrophotometer/TOC



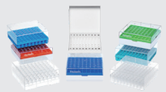
Pre-Processing Equipment

Cryopreservation Consumables

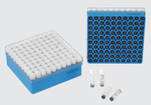
Cryo-Tubes



Cryoboxes



2D Cryo-Tubes



Pre-Coded Cryo-Tubes



Pipette Tip Series

Ordinary Tips



Filter Tips



Low Retention Tips

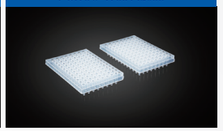


PCR Series

PCR Tubes



PCR 96-Well Plates



Centrifuge Tube Series

Conical Centrifuge Tubes



Microcentrifuge Tubes



Centrifuge Bottles



Cold Chain Transport Equipment

Cold Chain Transport Cooler



Transport Cart

