

► Blood Scenario Management Solutions



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CONTENT

General Functions of Blood Stations



Voluntary blood donor promotion and recruitment: Blood stations carry out awareness campaigns and recruitment initiatives within their designated areas to promote voluntary blood donation.



Training in blood transfusion technology: Blood stations provide training in blood transfusion techniques and engage in scientific research related to blood transfusion practices.



Execution of health administrative department assignments: Blood stations perform tasks assigned by health administrative authorities.



Blood collection and preparation: Blood stations manage the collection, preparation, and testing of blood.



Clinical blood supply: Blood stations supply blood to medical institutions for clinical use.



Guidance on medical blood use: Blood stations provide expert guidance on proper medical blood use.



Quality control of blood storage: Blood stations monitor and ensure the quality and safety of stored blood within their service areas.

General Functions of Transfusion Departments

Hospitals at the second-tier level and above should establish an independent transfusion department (blood bank) to provide technical guidance and oversee clinical blood usage. This includes ensuring proper blood storage, accurate blood typing and cross-matching, and implementing scientifically sound blood transfusion practices.

※ The functions outlined above reflect the primary functions of blood stations. Specific duties may vary depending on regional regulations and the operational needs of each station.

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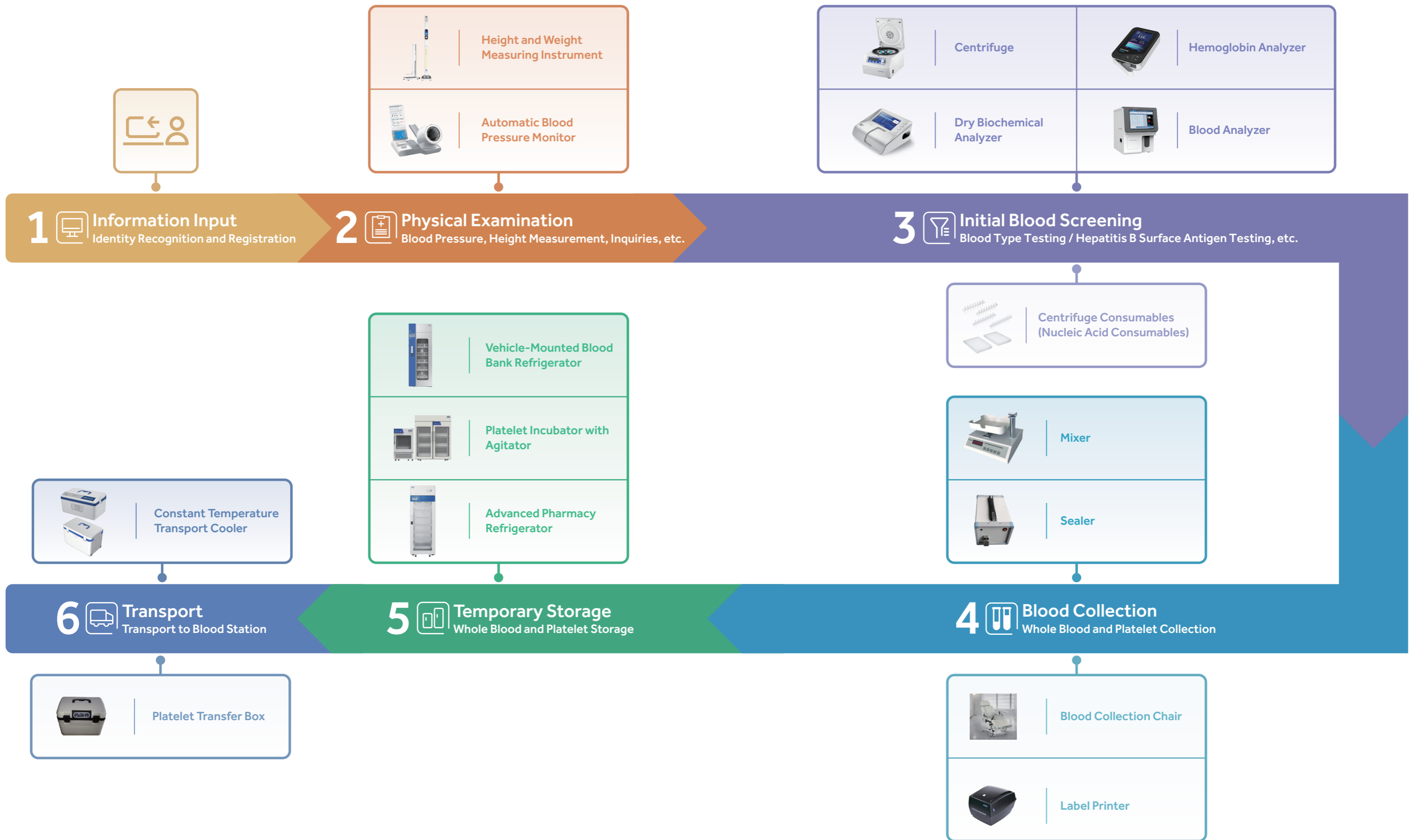
Transfusion Department

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**Blood Collection
Management Scenario**

Blood Collection Management Scenario



Software



This platform enables users to verify information uploads and complete blood donation registration forms through facial recognition or automated identity verification systems. It then measures key health metrics such as height, weight, and blood pressure to assess donation eligibility. For those who meet the requirements, blood samples are collected and tested for hemoglobin levels, blood type, hepatitis B surface antigen, ALT, and other indicators to ensure suitability for donation.

Blood donors can choose the amount and type of blood they wish to donate, while medical staff use intelligent blood collection systems to manage the process. After the donation, donors are monitored for a period of time. The collected whole blood or platelets are scanned, recorded, and stored in low-temperature refrigerators or temperature-controlled shaking boxes. The blood information is then uploaded to the central control platform of the blood station. Before distribution, each unit is scanned again for verification and placed in temperature-controlled transport boxes or shaking boxes, which are equipped with real-time monitoring and alert systems. Finally, the blood is transported to the blood station by blood transport vehicles.

A blood collection system that includes an intelligent information input system, intelligent consultation and physical examination system, intelligent blood collection system, intelligent recruitment management system, video monitoring system, data visualization software with a large display screen, and intelligent system for controlling five environmental factors.



Equipment



Physical Examination

Height and Weight Measuring Instrument



- Key Technical Specifications:
 - Height measurement method: Ultrasonic ranging
 - Weight measurement method: Precise balance beam pressure sensor
 - 7-inch foldable LCD display screen with 180° head rotation
 - Measurement speed: Up to 480 readings/hour;
 Measurement range:
 Height: 60 cm – 200 cm (Resolution: 0.1 cm)
 Weight: 8 kg – 200 kg (Resolution: 0.1 kg)
- Accessories: Power adapter, data cable, printing paper

Automatic Blood Pressure Monitor



- Blood pressure measurement utilizing pulse wave technology for accurate results. Equipped with dual airbags and dual sensors, along with intelligent positioning for rapid readings.
- Key Technical Specifications:
 - LCD display screen
 - Measurement range:
Pressure: 0 mmHg – 300 mmHg (0 kPa – 40 kPa)
 - Measurement accuracy:
Pressure: ± 2 mmHg (± 0.267 kPa)
Pulse: 40 beats/min – 180 beats/min $\pm 2\%$
 - Pressure monitoring: High-precision semiconductor pressure sensor
 - Output ports: RS-232/USB dual interface options
 - Dimensions: 471.5 mm (L) \times 402 mm (W) \times 309 mm (H)
- Accessories: Hand rest, safety tube
- Class II Medical Device Registration Certificate



Initial Blood Screening

Centrifuge



LX-60T100-J

A low-speed, non-refrigerated centrifuge designed for routine particle separation, making it ideal for blood analysis and other biological sample testing.

Rotor type: 6 \times 50 ml (15 ml compatible), 12 \times 15 ml, 18 \times 15 ml, 6 \times 100 ml, 36 \times 10 ml, and 12 \times 10 ml fixed-angle rotor with steel sleeves.

Offer a compact footprint and compatible with 5 ml, 10 ml, 15 ml, 50 ml, and 100 ml sample tubes, as well as small and large blood collection tubes.

Dry Biochemical Analyzer



1. A globally unique dry biochemical analyzer designed for preliminary blood donation screening (simultaneous hemoglobin and alanine aminotransferase testing) and supports blood glucose, lipid profile, and liver and kidney function tests using a small fingertip blood sample. Equipped with a temperature control system to ensure results comparable to those from large hospital-grade equipment.

- Key Technical Specifications:
 - Detection duration: ≤ 2 m
 - Accuracy: Within $\pm 10\%$
 - Sample size: $\leq 45 \mu\text{l}$
 - Dimensions: 158 mm \times 146 mm \times 65 mm
 - Weight: 622 g
 - Data storage capacity: At least 3000 sample results
- Accessories: Reagent consumables
- Class II Medical Devices

Hemoglobin Analyzer



1. Ultra-fast hemoglobin measurement, portable design, and easy-to-use operation.

- Key Technical Specifications:
 - Sample size: $\leq 10 \mu\text{l}$
 - Measurement duration: ≤ 3 s
 - Detection range:
Hb: 30.0 g/L – 250.0 g/L
HCT: 12% – 75%
 - Accuracy: Within $\pm 3\%$
 - Dimensions: 130 mm \times 82 mm \times 31.5 mm
 - Weight: Approximately 500 g (including battery)
- Accessories: Reagent consumables
- Class II Medical Devices

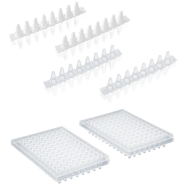
Blood Analyzer



1. Performs 24 blood tests using the electrical impedance method with whole blood samples.

- Key Technical Specifications:
 - Sample volume:
Whole blood samples: 6 μl
Pre-dilution samples: 20 μl
 - Detection speed: 70 tests/h
 - Display: 10.4-inch color LCD screen
 - Dimensions: 430 mm \times 295 mm \times 398 mm
 - Weight: ≤ 25 kg
- Accessories: Reagent consumables

Centrifuge Consumables (Nucleic Acid Consumables)



PCR single tube
 PCR 8-strip tube
 96-well PCR plate
 Manufactured with high-quality polypropylene, ensuring consistent performance and reliability across experiments.

Blood Collection

Mixer



1. Automatically swings and weighs during blood collection, allows presetting of desired blood volume, and includes both sound and light alarms.
 2. Key Technical Specifications:
 a) Volume range: 0 ml – 1200 ml
 b) Flow rate 0.5 ml/s – 3 ml/s
 c) Oscillation frequency: 30 rpm – 32 rpm
 d) Voltage options: 110 V (60 Hz) / 220 V (50 Hz)
 e) External dimensions: 220 mm × 170 mm × 160 mm
 f) Gross/net weight: 3 kg / 2.5 kg

Sealer



1. Heat-seals and cuts plastic blood bag tubes.
 2. Key Technical Specifications:
 a) Automatic voltage regulation
 b) Heat sealing duration: Adjustable from 0.1 to 9.9 seconds
 c) Applicable tube sizes:
 Outer diameter: 4 mm – 6 mm
 Wall thickness: ≤ 1 mm
 d) Power supply: 220 V (50 Hz)
 e) Weight: 8 kg
 f) Dimensions: 320 mm × 180 mm × 155 mm

Blood Collection Chair



Label Printer



1. Barcode and standard label printing.
 2. Key Technical Specifications:
 a. Thermal sensitivity and heat transfer printing
 b. 203 dpi
 c. Maximum printing width: 108 mm
 d. Printing length: 15 mm – 1200 mm
 e. Supported media type: Standard label paper, thermal label paper, electronic label paper
 f. Maximum printing width: 108 mm
 3. Mandatory product certification report

Temporary Storage



HXC-279

Vehicle-Mounted Blood Bank Refrigerator

Ideal for mobile blood collection, maintaining a stable storage environment between 2°C and 6°C.

Real-Time Internal Temperature Monitoring:
 Equipped with a dual control system featuring six high-precision sensors and a mechanical thermostat, ensuring a consistent internal temperature of 4 ± 1°C.

Features a built-in cold chain monitoring module that provides real-time internal temperature monitoring, records historical data, and sends alerts for abnormal temperature conditions.

Platelet Incubator with Agitator



HXZ-149

Designed to provide optimal platelet storage conditions, featuring a built-in platelet agitator.

Precise Temperature Control:
 Utilizes semiconductor temperature control technology to maintain a stable internal environment at 22 ± 1°C.

HXZ-1369

Advanced Pharmacy Refrigerator



HYC-509

Ideal for storing medicines, vaccines, reagents, biological products, and other items requiring a temperature range of 2°C to 8°C.

Excellent cooling performance, ensuring temperature uniformity within ± 2°C;

Equipped with an anti-freezing thermostat as standard, meeting DIN13277 requirements.

Transport



HZY-15Z



HZY-35B

Constant Temperature Transport Cooler

Designed with an advanced semiconductor refrigeration module to maintain a stable temperature of 4 ± 1°C, ensuring safe transportation of blood products.

Multi-dimensional binding of orders and blood products, supports cold chain monitoring throughout the entire process.

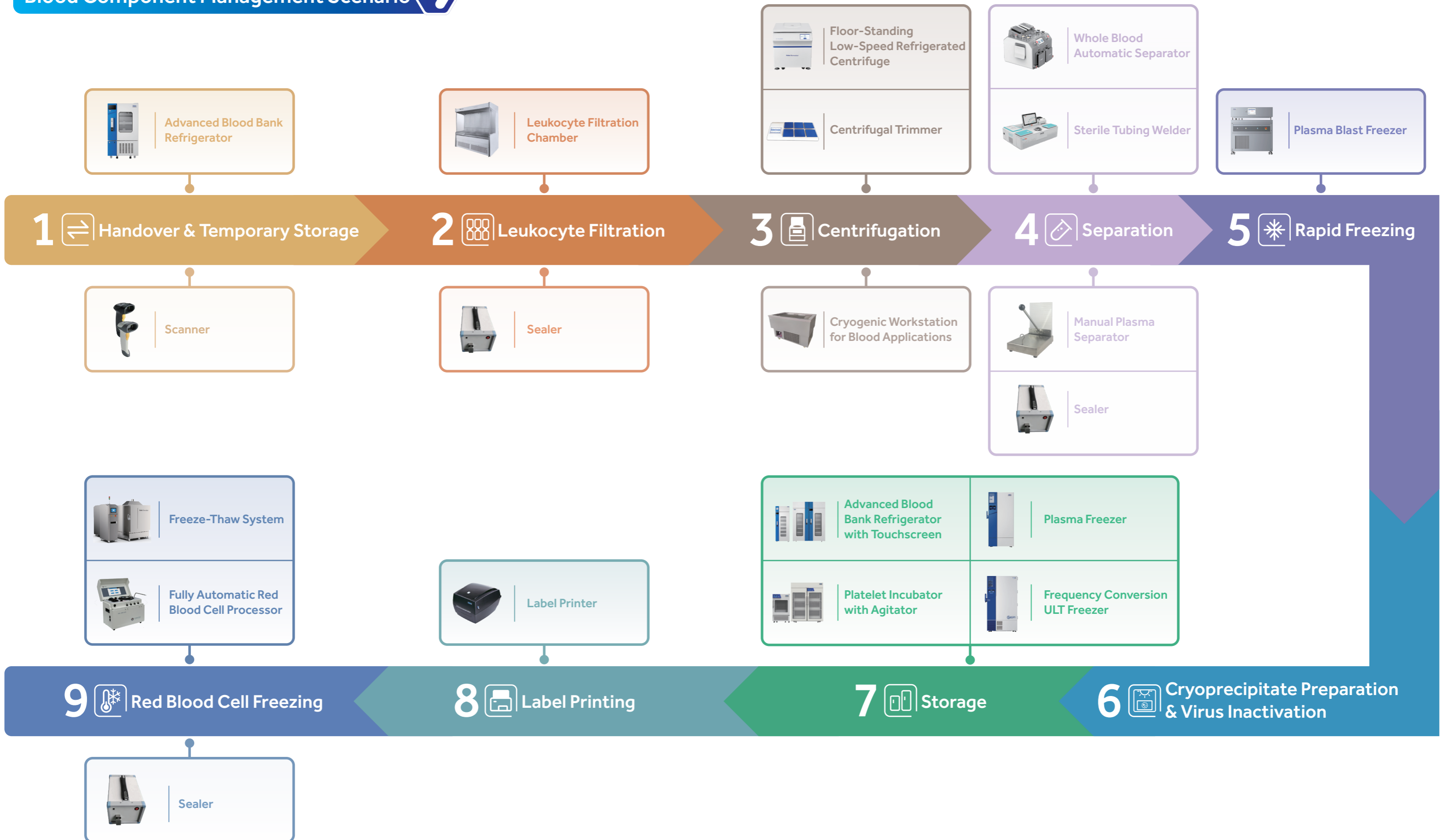
Platelet Transfer Box



Blood Component Management Scenario



Blood Component Management Scenario



Software



This platform supports blood collection, handover, and temporary storage management for blood stations.



Upon registration and inspection, the system classifies blood types and records related information into the system.



Blood station business systems: Intelligent storage management system, IoT cold chain platform management system, blood handover verification terminal software, automated cold storage management system, labeling machine management software, data visualization display software (large screen), video monitoring system, etc.

Equipment

Handover & Temporary Storage

Advanced Blood Bank Refrigerator



HXC-149T

Ideal for storing blood in controlled environments between 2°C and 6°C.

Real-time internal temperature monitoring:
A dual control system featuring six high-precision sensors and a mechanical thermostat, ensuring a stable internal temperature of 4±1°C.

The built-in cold chain monitoring module provides real-time temperature tracking, records historical data, and sends alerts in case of abnormal temperature.

Scanner



1. Dimensions: 152 mm × 64 mm × 85 mm (L × W × H)
2. Weight: 150 g
3. Supported host interfaces: USB, RS232, keyboard interface, TGCS (IBM) 46XX over RS485
4. Light source: 650 nm laser diode, Class 2
5. Scanning mode: Single-line
6. Scanning speed: 100 scans per second



Leukocyte Filtration

Automatic Blood Pressure Monitor



1. Designed to provide an optimized environment for leukocyte removal in whole blood
2. Key Technical Specifications:
 - a. 36 hooks
 - b. Specialized leaf curtain design
 - c. Fluorescent lighting system
 - d. UV lights
 - e. Internal temperature maintained between 2°C and -8°C
 - f. Cooling method: Air-cooled refrigeration

Sealer



1. Heat-seals and separates plastic blood bag tubes
2. Key Technical Specifications:
 - a) Automatic voltage regulation
 - b) Adjustable heat-sealing duration: 0.1 to 9.9 seconds
 - c) Applicable tube dimensions: Outer diameter: 4 mm – 6 mm; Wall thickness: ≤1 mm
 - d) Power supply: 220 V / 50 Hz
 - e) Weight: 8 kg



Centrifugation

Floor-Standing Low-Speed Refrigerated Centrifuge



LX-75L2400R

Specifically designed for use in blood banks and transfusion facilities, with a processing capacity of up to 14.4 L or 12 units of 500 ml quadruple blood bags per run.

Compatible with centrifuge tubes and bottles of 250 ml, 500 ml, 1,000 ml, and 2,400 ml.

Centrifugal Trimmer



1. Maximum weight capacity & scale resolution (g): 1000 g × 1 g (Weighing range: 0 – 5,000 g; Standard configuration: 1,000 g)
2. Repeatability: ±1 g
3. Linearity: ±1 g
4. Tare range: 0 – Maximum weight capacity
5. Stabilization duration: 3 s
6. Ambient temperature: 10°C – 35°C
7. Power supply: AC 220 V, 50 Hz
8. Tray size: 168 mm × 128 mm
9. Dimensions: 795 mm × 320 mm × 90 mm (L × W × H)

Cryogenic Workstation for Blood Applications



1. Maintains an environment between 2°C and 8°C
2. Key Technical Specifications:
 - a. Intuitive digital temperature display with microcomputer controller
 - b. High-quality, corrosion-resistant stainless-steel construction
 - c. Independent refrigeration system featuring dual compressors and dual evaporators for separate installation, energy efficiency, and low noise operation

Separation

Whole Blood Automatic Separator (Automatic Plasma Separation & Heat Sealing)



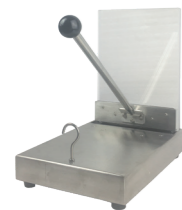
1. Designed for the automatic separation of plasma and red blood cells
2. Key Technical Specifications:
 - a. Automatic heat sealing, extrusion separation, and data recording
 - b. ≥6 built-in weighing devices
 - c. ≥2 independent blood flow rate control valves
 - d. Blood preparation and separation efficiency: ≥70 bags/hour (400 ml whole blood)
 - e. 10 catheter clamps with thermal sealing function
 - f. 7-inch LCD touchscreen with an intelligent Android system
 - g. Capable of preparing 2 bags of blood with identical or different components using a single device

Sterile Tubing Welder



1. Screen size: 10 inches
2. Dimensions: 442 mm × 760 mm × 290 mm (L × W × H)
3. Weight: 14.5 ± 0.5 kg
4. Operating mode: Automatic
5. Consumable cassette capacity: 300 welds per cassette

Blood Collection Scale



1. Manual separation of plasma box red blood cells
2. Key Technical Specifications:
 - a. Clamping force: 20 N
 - b. Applicable blood bag capacity: 100 ml – 400 ml
 - c. Stainless steel material, easy to clean and disinfect
 - d. Dimensions: 165 mm × 250 mm × 250 mm (L × W × H)
 - e. Gross weight/Net weight: 3 kg / 2.5 kg

Sealer



1. Heat-seals and separates plastic blood bag tubes
2. Key Technical Specifications:
 - a) Automatic voltage regulation
 - b) Adjustable heat-sealing duration: 0.1 to 9.9 seconds
 - c) Applicable tube dimensions: Outer diameter: 4 mm – 6 mm; Wall thickness: ≤1 mm
 - d) Power supply: 220 V / 50 Hz
 - e) Weight: 8 kg
 - f) Dimensions: 320 mm × 180 mm × 155 mm

Rapid Freezing

Plasma Blast Freezer



Designed for quick-freezing of plasma products at blood stations and medical institutions.

Freezing capacity: 16 bags of 1000 ml plasma or 24 bags of 500 ml plasma
 Rapid-freezing tray design improves plasma rapid-freezing efficiency and reduces labor requirements.

Storage

Advanced Blood Bank Refrigerator with Touchscreen



Ideal for storing blood in controlled environments between 2°C and 6°C.

Real-time internal temperature monitoring:
 A dual control system featuring six high-precision sensors and a mechanical thermostat, ensuring a stable internal temperature of 4±1°C.

The built-in cold chain monitoring module provides real-time temperature tracking, records historical data, and sends alerts in case of abnormal temperature.

Platelet Incubator with Agitator



Designed to provide optimal platelet storage conditions, featuring a built-in platelet agitator.

Precise Temperature Control:
Utilizes semiconductor temperature control technology to maintain a stable internal environment at $22 \pm 1^\circ\text{C}$.

Plasma Freezer



Ideal for cryopreservation of plasma in blood banks, hospitals, and disease control centers.

Accessories:
Standard: 5 coated steel wire shelves, RS485 interface, remote alarm interface.

Optional: stainless steel shelves, plastic drawers, NFC, temperature recorder, USB port.

Frequency Conversion ULT Freezer



DW-86L579BPT/DW-86L729BPT/
DW-86L829BPT/DW-86L959BPT

Designed for storing products and samples that require strict storage conditions, such as red blood cells, white blood cells, semen, and biological products.

Quicker sample access, identification, and retrieval:
Features a one-scan, one-code, and one-click operation through touchscreen synchronization, eliminating the need for manual processes and enabling quick access and retrieval within seconds.

Label Printing

Label Printer



1. Barcode and standard label printing
 - a. Thermal sensitivity and heat transfer printing
 - b. 203 dpi
 - c. Maximum printing width: 108 mm
 - d. Printing length: 15 mm – 1200 mm
 - e. Supported media type: Standard label paper, thermal label paper, electronic label paper
 - f. Maximum printing width: 108 mm
2. Mandatory product certification report



Freeze Red Blood Cells

Freeze-Thaw System



The controlled freeze-thaw system is designed for downstream processing of liquid biological products in the biopharmaceutical industry, serving as a pre-treatment solution, using programmed cooling and warming to prepare these products for low-temperature storage.

Programmed temperature control:
The heating and cooling rates are precisely regulated through set parameters, ensuring a controlled freeze-thaw process.

Fully Automatic Red Blood Cell Processor



1. Automated glycerin addition, deglycerolization, and washing of fresh red blood cells
2. Automatic settings for 1 unit, 1.5 units, and 2 units without manual adjustments
3. Large touchscreen
4. Equipped with a unique 360-degree double-axis medical vibrator to minimize cell impact
5. Full parameter settings to meet diverse clinical requirements
6. Adjustable liquid injection speed customizable to suit the operator's needs
7. Advanced design includes built-in self-diagnosis centrifuge discharge detection and real-time monitoring of centrifugal separation and washing processes

Sealer



1. Heat-seals and separates plastic blood bag tubes
2. Key Technical Specifications:
 - a) Automatic voltage regulation
 - b) Adjustable heat-sealing duration: 0.1 to 9.9 seconds
 - c) Applicable tube dimensions: Outer diameter: 4 mm – 6 mm; Wall thickness: ≤ 1 mm
 - d) Power supply: 220 V / 50 Hz
 - e) Weight: 8 kg
 - f) Dimensions: 320 mm × 180 mm × 155 mm

Laboratory Management Scenario



Laboratory Management Scenario



1 Handover

1.1 Sample Reception

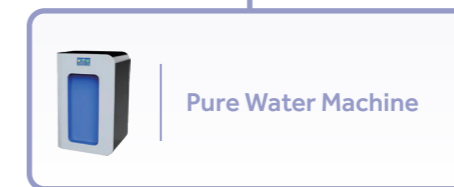
1.2 Centrifuge



2 Blood Testing

2.1 Opening Lid

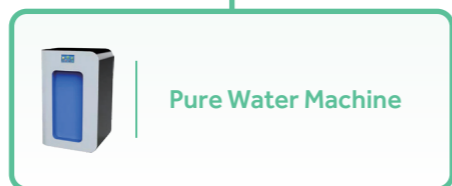
2.2 Enzyme Immunoassay Analysis



2.5 Nucleic Acid Test

2.4 Blood Type Analysis

2.3 Biochemical Analysis / Sample Selection









3 Sample Post-Processing

3.1 Adding Lid

3.2 Temporary Storage


Software

-  This platform utilizes barcode scanning for specimen transfer to instantly verify quantities and information, reducing errors, minimizing occupational exposure, and lowering biosafety contamination risks
-  Leverage patented recognition technology for the standardized assessment of hemolysis, lipolysis, and serum insufficiency
-  Features an integrated centrifuge module for fast and convenient centrifugation
-  Employs manual-twist replication technology to prevent specimen splashing and contamination
-  Blood station management systems: Quality management information platform, specimen pre-processing system, specimen handover and sorting system, fully automatic sampling system, intelligent liquid transfer system
-  Large-screen visual display software and video monitoring system

Equipment

Sample Reception

Advanced Blood Bank Refrigerator with Touchscreen



HXC-629T


Ideal for storing blood in controlled environments between 2°C and 6°C.

Real-time internal temperature monitoring:
A dual control system featuring six high-precision sensors and a mechanical thermostat, ensuring a stable internal temperature of 4±1°C.

The built-in cold chain monitoring module provides real-time temperature tracking, records historical data, and sends alerts in case of abnormal temperature.

Centrifugation

Centrifuge



LX-60T100-J


A low-speed, non-refrigerated centrifuge designed for routine particle separation, making it ideal for blood analysis and other biological sample testing.

Rotor type: 6 × 50 ml (15 ml compatible), 12 × 15 ml, 18 × 15 ml, 6 × 100 ml, 36 × 10 ml, and 12 × 10 ml fixed-angle rotor with steel sleeves.

Offer a compact footprint and compatible with 5 ml, 10 ml, 15 ml, 50 ml, and 100 ml sample tubes, as well as small and large blood collection tubes.

Opening Lid

Biological Safety Cabinet




HR1200-IIA2-X/HR1500-IIA2-X/
HR1800-IIA2-X

Designed for microbiology, biomedical research, and biosafety laboratories, providing essential protection and isolation for biosafety operations.

Features an intelligent constant airspeed system that monitors both downward and inlet airflow in real-time. Dual sensors automatically adjust the fan speed through a microcomputer system, ensuring stable and consistent airflow within the chamber.

Cooled Incubator




HSP-160
HSP-260

Ideal for a range of applications, including cultivation and preservation of bacteria, molds, and microorganisms, as well as breeding experiments.

Wide Temperature Range:
Provides precise temperature control from 0°C to 70°C, ensuring stable performance even under varying ambient conditions.


Enzyme Immunoassay Analysis

Enzyme-Linked Immunosorbent Assay (ELISA) Reader



1. ELISA detection system
2. Key Technical Specifications:
 - a. 9-channel rapid detection
 - b. Full-screen display for complete 96-well plate data
 - c. Model storage and recall function
 - d. Wavelength options: 405 nm, 450 nm, 492 nm, 630 nm
 - e. Measurement range: 0.000 A – 4.000 A
3. Accessories: Power cord, touchscreen stylus, fuse, etc.

Platelet Washing Machine



1. Designed for washing sample well plates
2. Key Technical Specifications:
 - a. Full-plate or single-row washing
 - b. Available with 8 or 12 needles
 - c. Vibration plate and adjustable soaking duration
 - d. Residual wash volume of ≤1 ul per well
 - e. Cleaning solution channel: Single-channel
 - f. Flushing options: Dual-point washing solution, bottom flushing, and adjustable liquid volume settings
3. Accessories: Fuses, cleaning heads, etc.

Fully Automatic Enzyme Immunoassay System



1. Blood sample testing
2. Key Technical Specifications:
 - a. Continuous sample addition without interrupting operations
 - b. 90 sample positions and 25 reagent positions
 - c. Detection method: Direct chemiluminescence
 - d. Sampling system: Steel needle sampling (no disposable tips required), reducing operational costs
 - e. Detection speed: 180 tests/h
 - f. Online loading: Real-time online loading of reagents and consumables
3. Accessories: Computers, reagents

Pure Water Machine



1. Produces pure water and ultrapure water
2. Key Technical Specifications:
 - a. Conductivity: ≤ 1 us/cm at 25°C
 - b. Water quality exceeds the National Laboratory Standard GB6682-2008 for Grade III water
 - c. Water output capacity: 80 L/h – 100 L/h
 - d. Heavy metal removal rate: $\geq 99\%$ (Maximum heavy metal content: < 0.01 ppb)
 - e. Microbial content: < 1 CFU/ml
3. Accessories: Filter consumables



Biochemical Analysis / Sample Selection

Fully Automatic Biochemical Analyzer



1. Designed for blood testing, capable of prioritizing emergency samples. Features 80 sample/reagent positions and 56 reaction positions, supporting both colorimetric and turbidimetric analysis methods.
2. Key Technical Specifications:
 - a) Stable color comparison rate of 240 tests/ (up to 480 tests/h with optional ISE module)
 - b) Sample types: serum, plasma, urine, pleural and ascitic fluid, cerebrospinal fluid
 - c) 56 positions with UV-resistant plastic colorimetric cups
 - d) Reaction volume: 100 μ L – 360 μ L
 - e) Reaction temperature: $37 \pm 0.1^\circ\text{C}$
3. Accessories: Reagent consumables

Pure Water Machine



1. Produces pure water and ultrapure water
2. Key Technical Specifications:
 - a. Conductivity: ≤ 1 us/cm at 25°C
 - b. Water quality exceeds the National Laboratory Standard GB6682-2008 for Grade III water
 - c. Water output capacity: 80 L/h – 100 L/h
 - d. Heavy metal removal rate: $\geq 99\%$ (Maximum heavy metal content: < 0.01 ppb)
 - e. Microbial content: < 1 CFU/ml
3. Accessories: Filter consumables



Blood Type Analysis



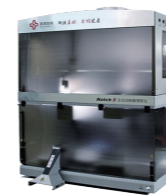
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 - c. Water output capacity: 80 L/h – 100 L/h
 - d. Heavy metal removal rate: $\geq 99\%$ (Maximum heavy metal content: < 0.01 ppb)
 - e. Microbial content: < 1 CFU/ml
3. Accessories: Filter consumables



Nucleic Acid Test

HBV/HCV/HIV Nucleic Acid Detection System



1. Sample types: serum, plasma, whole blood, secretions, exfoliated cells, tissues, throat swabs, anal swabs, urine, feces, etc.
2. Sample rack capacity: 96 samples/batch
3. Extraction duration: Rapid extraction: 96 tests in ≤ 30 mins; Magnetic bead extraction: 96 test in ≤ 90 mins
4. Sample tube compatibility: Compatible with various original sample tube specifications
5. Pipetting accuracy: 1 μ L: CV $\leq 4.0\%$; ≥ 50 μ L: CV $\leq 0.4\%$
6. Sample addition: automatic liquid level detection, clot detection, tip detection, leakage detection
7. Packaging dimensions: 782 mm \times 1075 mm \times 1245 mm (L \times D \times H)



Temporary Storage

Advanced Blood Bank Refrigerator with Touchscreen



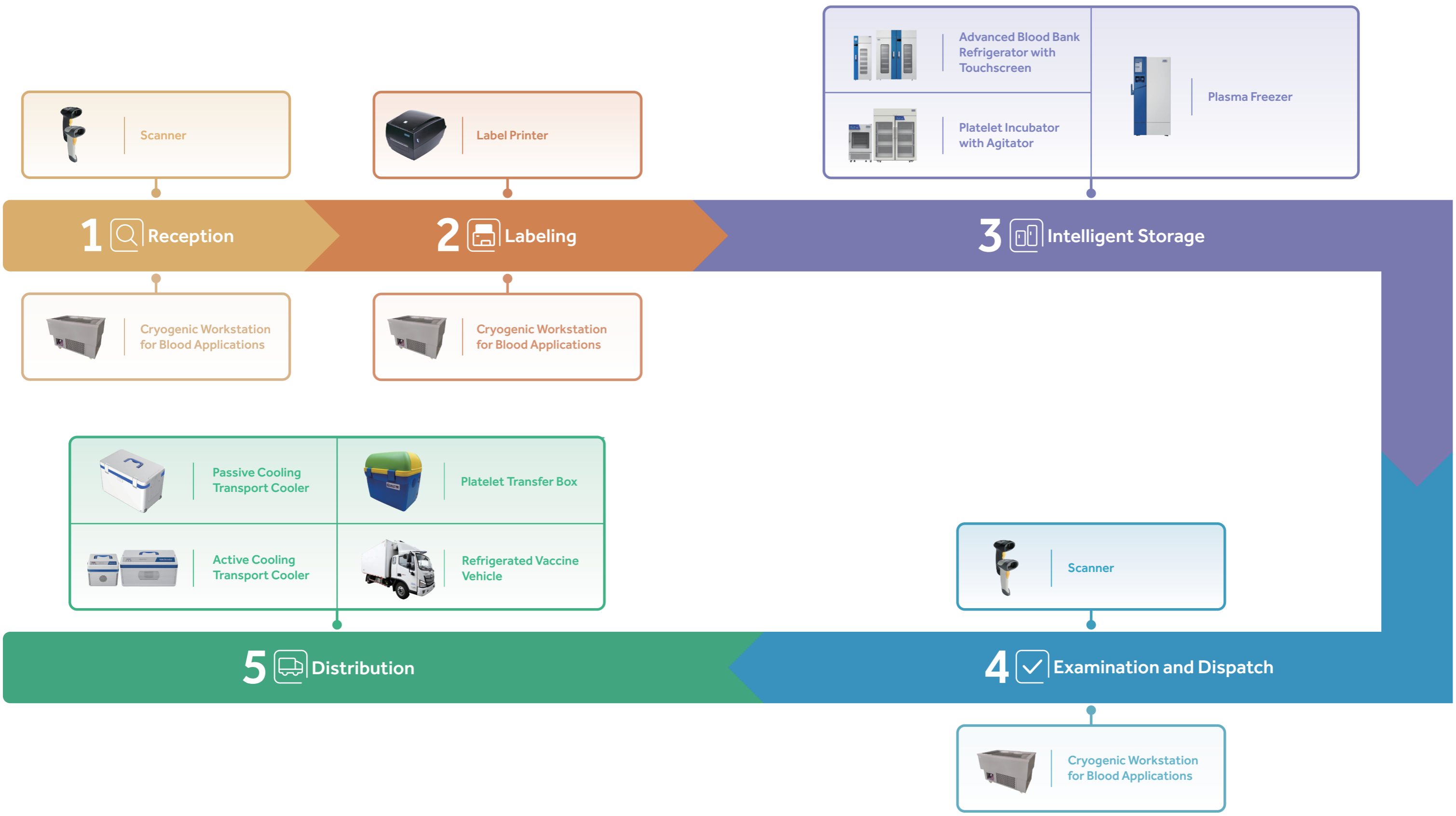
HXC-629T

- Ideal for storing blood in controlled environments between 2°C and 6°C.
 Real-time internal temperature monitoring:
 A dual control system featuring six high-precision sensors and a mechanical thermostat, ensuring a stable internal temperature of $4 \pm 1^\circ\text{C}$.
- The built-in cold chain monitoring module provides real-time temperature tracking, records historical data, and sends alerts in case of abnormal temperature.



Blood Storage and Distribution Management Scenario

Blood Storage and Distribution Management Scenario



Equipment

Information Input

Scanner



1. Dimensions: 152 mm × 64 mm × 85 mm (L × W × H)
2. Weight: 150 g
3. Supported host interfaces: USB, RS232, keyboard interface, TGCS (IBM) 46XX over RS485
4. Light source: 650 nm laser diode, Class 2
5. Scanning mode: Single-line
6. Scanning speed: 100 scans per second

Cryogenic Workstation for Blood Applications



1. Maintains an environment between 2°C and 8°C
2. Key Technical Specifications:
 - a. Intuitive digital temperature display with microcomputer controller
 - b. High-quality, corrosion-resistant stainless-steel construction
 - c. Independent refrigeration system featuring dual compressors and dual evaporators for separate installation, energy efficiency, and low noise operation

Labeling

Label Printer



1. Barcode and standard label printing
 - a. Thermal sensitivity and heat transfer printing
 - b. 203 dpi
 - c. Maximum printing width: 108 mm
 - d. Printing length: 15 mm – 1200 mm
 - e. Supported media type: Standard label paper, thermal label paper, electronic label paper
 - f. Maximum printing width: 108 mm
2. Mandatory product certification report

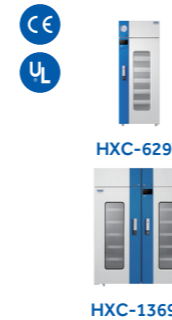
Cryogenic Workstation for Blood Applications



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Intelligent Storage

Advanced Blood Bank Refrigerator with Touchscreen



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 The built-in cold chain monitoring module provides real-time temperature tracking, records historical data, and sends alerts in case of abnormal temperature.

Platelet Incubator with Agitator



Designed to provide optimal platelet storage conditions, featuring a built-in platelet agitator.

Precise Temperature Control:
 Utilizes semiconductor temperature control technology to maintain a stable internal environment at 22 ± 1°C.

Plasma Freezer



Ideal for cryopreservation of plasma in blood banks, hospitals, and disease control centers.

Accessories:
 Standard: 5 coated steel wire shelves, RS485 interface, remote alarm interface

✓ Examination and Dispatch

Scanner



1. Dimensions: 152 mm × 64 mm × 85 mm (L × W × H)
2. Weight: 150 g
3. Supported host interfaces: USB, RS232, keyboard interface, TGCS (IBM) 46XX over RS485
4. Light source: 650 nm laser diode, Class 2
5. Scanning mode: Single-line
6. Scanning speed: 100 scans per second

Cryogenic Workstation for Blood Applications



1. Maintains an environment between 2°C and 8°C
2. Key Technical Specifications:
 - a. Intuitive digital temperature display with microcomputer controller
 - b. High-quality, corrosion-resistant stainless-steel construction
 - c. Independent refrigeration system featuring dual compressors and dual evaporators for separate installation, energy efficiency, and low noise operation

🚚 Distribution

Passive Cooling Transport Cooler



HZY-35B

Designed for the temporary storage and safe transportation of blood products, pharmaceuticals, specimens, and reagents.

Ensures multi-dimensional tracking of orders and blood products, with cold chain monitoring throughout the entire process.

Active Cooling Transport Cooler



HZY-8Z



HZY-15Z

Designed for the temporary storage and safe transportation of blood products, pharmaceuticals, specimens, and reagents.

Ensures multi-dimensional tracking of orders and blood products, with cold chain monitoring throughout the entire process.

Platelet Transfer Box



HXZ-5Z

Ideal for safely transferring platelets between hospitals, blood banks, and blood collection sites.

Refrigerated Vaccine Vehicle



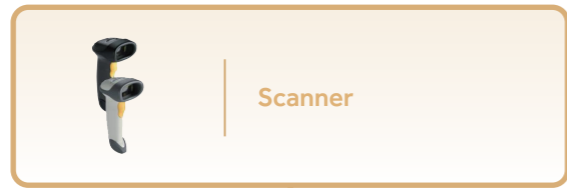
VR-23

Designed for cold chain transportation of blood and other products requiring strict temperature control.

A modern hospital room with a Haier transfusion management machine in the foreground. The room features a hospital bed, a desk with a computer monitor, and large windows overlooking a building. The machine is white and blue with a control panel and a display screen.

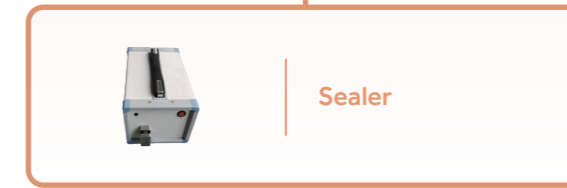
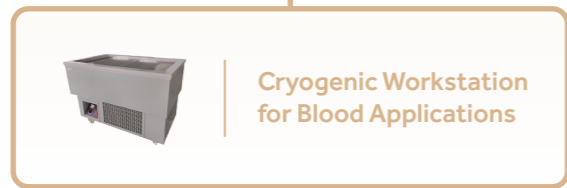
Transfusion Management Scenario

Transfusion Management Scenario



1 Reception
Hospital System Registration

2 Storage
Blood Components: Red Blood Cells, Plasma, Platelets



5 Transportation
Red Blood Cells, Plasma

4 Plasma Thawing
Plasma

3 Blood Matching
Blood Type Testing and Matching

Software



The intelligent large-screen system provides real-time monitoring of hospital blood information, enabling one-stop management to ensure blood safety and timely usage.

Equipment



Reception



Scanner

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Temporary Storage

Blood Bank Refrigerator



HXC-279

Ideal for mobile blood collection and storage in controlled environments between 2°C and 6°C.

Real-time internal temperature monitoring:
A dual control system featuring six high-precision sensors and a mechanical thermostat, ensuring a stable internal temperature of 4±1°C.

The built-in cold chain monitoring module provides real-time temperature tracking, records historical data, and sends alerts in case of abnormal temperature.

Platelet Incubator with Agitator



HXZ-149



HXZ-1369

Designed to provide optimal platelet storage conditions, featuring a built-in platelet agitator.

Precise Temperature Control:
Utilizes semiconductor temperature control technology to maintain a stable internal environment at 22 ± 1°C.

Plasma Freezer



DW-30L1280FT

Designed for cryopreservation of plasma, biological products, and other components requiring low-temperature storage. Equipped with RFID automatic inventory management for quick access.

Capacity: 1,280 L
Plasma bag storage baskets: 48

Sealer



1. Heat-seals and cuts plastic blood bag tubes.
2. Key Technical Specifications:
 - a) Automatic voltage regulation
 - b) Heat sealing duration: Adjustable from 0.1 to 9.9 seconds
 - c) Applicable tube sizes:
Outer diameter: 4 mm – 6 mm
Wall thickness: ≤ 1 mm
 - d) Power supply: 220 V (50 Hz)
 - e) Weight: 8 kg
 - f) Dimensions: 320 mm × 180 mm × 155 mm



Blood Matching

Centrifuge



LX-60T100-J

A low-speed, non-refrigerated centrifuge designed for routine particle separation, making it ideal for blood analysis and other biological sample testing.

Rotor type: 6 × 50 ml (15 ml compatible), 12 × 15 ml, 18 × 15 ml, 6 × 100 ml, 36 × 10 ml, and 12 × 10 ml fixed-angle rotor with steel sleeves.

Offer a compact footprint and compatible with 5 ml, 10 ml, 15 ml, 50 ml, and 100 ml sample tubes, as well as small and large blood collection tubes.



Plasma Thawing

Plasma Thawer



1. Thawing method: Water bath
2. Water storage capacity: 60 kg ± 5%
3. Circulation capacity: 60 L/min
4. Control temperature range: Room temperature to 60°C
5. Temperature control accuracy: ±0.1°C
6. Heating power: 3,000 W
7. Recommended plasma thawing capacity: 20 bags
8. Maximum plasma thawing capacity: 25 bags
9. Thawing duration: 10 mins – 15 mins
10. External dimensions: 540 mm × 600 mm × 900 mm (W × D × H)
11. Net weight/Gross weight: 58 kg / 77 kg



Transportation

Constant Temperature Transport Cooler



HZY-15Z



HZY-35B

Designed with an advanced semiconductor refrigeration module to maintain a stable temperature of 4 ± 1°C, ensuring safe transportation of blood products.

Multi-dimensional binding of orders and blood products, supports cold chain monitoring throughout the entire process.

Specifications 

Height and Weight Measuring Instrument

Height Measurement Method	Weight Measurement Method	Measurement Speed (times/h)
Ultrasonic Ranging	Precise Sensor	480
Display Type	Height Measurement Range (cm)	Weight Measurement Range (kg)
7-inch LCD	60-200	8-200

Automatic Blood Pressure Monitor

Pressure Measurement Range (mmHg)	Pulse Measurement Range (beats/min)	Exterior Dimensions (mm; W × D × H)
0-300	40-180	471.5*402*309
Output Ports	Power Supply (V/Hz)	Pressure Monitoring:
RS-232 / USB (Two Data Interface Options)	100-240/50/60	High-Precision Semiconductor Pressure Sensor

Centrifuge

Model	Noise (dB)	Speed Range (rpm)	Maximum RCF (xg)	Maximum Capacity (ml)	Speed Accuracy (rpm)	Duration Range
LX-60T100-J	≤56	471.5*402*309	4749	6*100	±10	1 sec – 99 hrs 59 mins 59 secs
Power Supply (V/Hz)	Power (W)	Exterior Dimensions (mm; W × D × H)	Net Weight (kg)	Packing Dimensions (mm; W × D × H)	Gross Weight (kg)	Certification
220/50/60	150	340*447*281	25	441*544*421	28	CE

Dry Biochemical Analyzer

Weight (g)	Exterior Dimensions (mm; W × D × H)	Sample Size (ul)	Test Duration (min)	Accuracy (%)	Data Storage
622	158 * 146 * 65	≤45	≤2	≤±10	Minimum of 3,000 Samples

Hemoglobin Analyzer

Weight (g)	Exterior Dimensions (mm; W × D × H)	Sample Size (ul)	Test Duration (min)	Accuracy (%)	Data Storage
500	130 * 82 * 31.5	≤10	≤3	≤±3	Minimum of 2,000 Samples

Blood Analyzer

Weight (g)	Exterior Dimensions (mm; W × D × H)	Detection Speed (tests/h)
≤25	430 * 295 * 398	70
Data Storage	Display Type:	
Automatically Stores Up to 100,000 Records	10.4-Inch Color LCD Screen	

Mixer

Range (ml)	Liquid Production Rate (ml/s)	Exterior Dimensions (mm; W × D × H)
0-1200	0.5-3	220*170*160
Oscillation Frequency (rpm)	Swing Angle (°)	Power Supply (V/Hz)
30-32	13±2	110/60, 220/50

Sealer

Weight (kg)	Heat Sealing Duration:	Size (mm)
8	Adjustable from 0.1 to 9.9 Seconds	320 * 180 * 155
Applicable Materials (mm)		Power Supply (V/Hz)
Outer Diameter: 4 – 6; Wall Thickness: ≤1		AC 220/50

Label Printer

Supported Media Type:		DPI
Standard Label Paper, Thermal Label Paper, Electronic Label Paper		203
Print Speed (ips)	Printing Length (mm)	Maximum Printing Width (mm)
2-5	15-1200	108

Vehicle-Mounted Blood Bank Refrigerator

Model	Power Supply (V/Hz)	Temperature Range (°C)	Power (W)	Capacity (L)
HXC-149T	220-240/50	4±1	240	149
HXC-279	220/50	4±1	400	279
HXC-629T	220-240/50	4±1	255	629
HXC-1369T	220-240/50	4±1	400	1369
HXC-629R	220-240/50	4±1	300	629
Net Weight (kg)	Exterior Dimensions (mm; W × D × H)	Interior Dimensions (mm; W × D × H)	Blood Storage Capacity (Number of 450 ml Blood Bags)	
108	625*820*1150	505*560*610	60	
113	660*705*1700	505*410*1315	135	
212	765*940*1980	645*680*1455	312	
380	1545*940*1980	1425*680*1455	624	
295	1065*940*1980	645*680*1455	88	

Platelet Incubator with Agitator

Model	Power Supply (V/Hz)	Temperature Range (°C)	Capacity (L)
HXZ-149	200-240/50	20-24	149
HXZ-1369	200-240/50	20-24	1369
Net Weight (kg)	Exterior Dimensions (mm; W × D × H)	Interior Dimensions (mm; W × D × H)	Blood Storage Capacity (Number of 300 ml Blood Bags)
94	660*705*1700	505*410*1315	135
412	1545*915*1945	1425*680*1455	216

Advanced Pharmacy Refrigerator

Model	Power Supply (V/Hz)	Temperature Range (°C)	Power (W)
HYC-509	220-240/50/60	2-8	370
Capacity (L)	Net Weight (kg)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)
509	180	693*813*1981	593*585*1500

Constant Temperature Transport Cooler

Model	Storage Temperature (°C)	Operating Temperature (°C)	Net Weight (kg)
HZY-15Z	2-6	2-10	6
HZY-35B	/	2-10	9
HZY-8Z	2-6	2-10	4
Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Blood Storage Capacity (L)	Refrigeration Method
520*300*270	430*150*180	15	Active Cooling with Semiconductor Technology
550*328*370	450*232*295	35	Passive Cooling for Biological Products
320*265*260	230*140*170	8	Active Cooling with Semiconductor Technology

Floor-Standing Low-Speed Refrigerated Centrifuge

Model	Maximum Speed (r/min)	Maximum RCF (xg)	Maximum Capacity (ml)	Sound Level (dB(A))	Temperature Range (°C)	Temperature Accuracy (°C)	Speed Accuracy (rpm)
LX-75L2400R	7500	13376	6*2400	≤65	-20-40	≤56	±10
Duration Range	Net Weight (kg)	Gross Weight (kg)	Lid open Height (mm)	Power Supply (V/Hz)	Packing Dimensions (mm; W × D × H)	Exterior Dimensions (mm; W × D × H)	Power (W)
1s-99h 59min59s	670	750	1780	380/50/60	1110*1290*1275	900*1050*1020	7000

Cryogenic Workstation for Blood Applications

Model	Power Supply (V/Hz)	Temperature Range (°C)	Ambient Temperature (°C)	Power (W)
HXT-C5-0.7	220/50/60	2-8	10-28	1200
HXT-C5-1.3	220/50/60, 115/50/60	2-8	10-28	1500
Refrigerated Area (m²)	Exterior Dimensions (mm; W × D × H)	Refrigeration Mode:	Net Weight (kg)	
0.65	1200*750*880	Forced Air Cooling	140	
1.25	1900*850*880	Forced Air Cooling	190	

Centrifugal Trimmer

Number of Trays	Maximum Weight Capacity & Scale Resolution (g)	Repeatability (g)	Linearity (g)	Tare Range	
6	1000 × 1 (Weighing Range: 0 – 5,000 g; Standard Configuration: 1,000 g)	±1	±1	0 – Maximum Weight Capacity	
Stabilization duration (s)	Sensitivity Drift (%/°C)	Ambient Temperature (°C)	Power Supply (V/Hz)	Tray Size (mm)	Dimensions (mm; L × W × H)
3	±0.005	10-35	AC 220/50	168×128	795×320×90

Sterile Tubing Welder

Screen size (inch)	Dimensions (mm; W × D × H)	Weight (kg)	Operating Mode:	Consumable Cassette Capacity	Voltage (V)
10	442 * 760 * 290	14.5+0.5	Automatic	300 Welds per Cassette	110-240

Plasma Blast Freezer

Model	Rapid-Cooling Method	Power Supply (V/Hz)	Refrigeration Method
XSD-24FL	Plate Contact Quick-Freezing	3N 380/50/60	Forced Air Cooling
Power Mode:	Exterior Dimensions (mm; W × D × H)		Weight (Kg)
Plug and Play	Indoor Unit: 1,455 × 915 × 1,665 (Open), 455 × 915 × 1,465 (Closed) Outdoor Unit: 1,700 × 1,000 × 2,200 (Closed)		Indoor Unit: 320 Outdoor Unit: 360

Plasma Freezer

Model	Power Supply (V/Hz)	Temperature Range (°C)	Power (W)
DW-30L818BPT	100-230/50/60	-10--30	680
Capacity (L)	Net Weight (kg)	Exterior Dimensions (mm; W × D × H)	Interior Dimensions (mm; W × D × H)
818	210	988*951*1980	750*755*1460

Frequency Conversion ULT Freezer

Model	Power Supply (V/Hz)	Temperature Range (°C)	Capacity (L)
DW-86L579BPT	100-230/50/60	-40~-86	579
DW-86L729BPT	100-230/50/60	-40~-86	729
DW-86L829BPT	100-230/50/60	-40~-86	829
DW-86L959BBPT	208-230/50/60	-40~-86	959
Net Weight (kg)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	
325	895*998*1980	620*716*1310	
350	1046*998*1980	766*716*1310	
380	1145*998*1980	870*716*1310	
450	1296*998*1980	1016*716*1310	

Fully Automatic Red Blood Cell Processor

Exterior Dimensions (W*D*H)(mm)	Power Rating (VA)	Voltage (VAC)	Frequency (Hz)	Weight (kg)	Protocol Portfolio
720 * 500 * 640	≤500	220+/-5%	50	37	Ask Nigale for avail languages
Closed Disposable Sets	Pre-assembled		Package (Sets/Carton)	Ctn Size (mm)	Weight (kg/Carton)
P-1000B1/B2	Bowl, tubing and bags		10	530 *370 * 550	9.2

Biological Safety Cabinet

Model	Power Supply (V/Hz)	Power (W)	Net Weight (kg)	Exterior Dimensions (W*D*H)(mm)
HR1200-IIA2-X	220-240 50/60	1600	280	1336*845(790)*2120
HR1500-IIA2-X	220-240 50/60	1670	320	1636*845(790)*2120
HR1800-IIA2-X	220-240 50/60	1850	380	1936*845(790)*2120
Interior Dimensions (W*D*H)(mm)	Sash Opening (mm)	Airflow Circulation		Sound Level (dB(A))
1230*600*655	200 (Max 480)	70% Downflow, 30% Exhaust		59.3
1530*600*655	200 (Max 480)	70% Downflow, 30% Exhaust		61
1830*600*655	200 (Max 480)	70% Downflow, 30% Exhaust		63.5

Cooled Incubator

Model	Capacity (L/Cu.Ft)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Packing Dimensions (W*D*H)(mm)	Power (W)	Shelves Dimensions (W*D)
HSP-160	160/5.7	760*855*1375	520*520*610	850*930*1500	740	2/7
HSP-260	260/9.2	760*855*1765	520*520*1000	850*930*1890	870	2/11
Temperature Range (°C)	Control Accuracy (°C)	Temperature Uniformity (°C)	Temperature Fluctuation (°C)	Recovery Time after 30 Sec Door Opening (min)		
0-70	±0.1	±0.5 at 37	±0.1	5		
0-70	±0.1	±0.5 at 37	±0.1	5		

HBV/HCV/HIV Nucleic Acid Detection System

Extraction Time (min)	Amplification Time (min)
170 (576 Tests/MP-NAT)	100
120 (96 Tests/ID-NAT)	100

Platelet Transfer Box

Model	Working Temperature (°C)	Transfer Temperature (°C)	Net Weight (kg)
HXZ-5Z	22	22±2	5
Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Capacity (L)	
405*380*320	290*220*285	5	

Refrigerated Vaccine Vehicle

Model	Temperature Range (°C)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Hot Zone (°C)	Cold Zone (°C)
VR-23	2-8	5300*2500*2300	5100*2300*2100	0-50	-20-32

Plasma Freezer

Model	Power Supply (V/Hz)	Temperature Range (°C)	Power (W)
DW-30L1280FT	220-240/50	-10~-35	870
Capacity (L)	Net Weight (kg)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)
1280	620	1520*1065*1980	1320*752*1260