

BIOL@GLX[®]



www.CryoKING.com
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www.BiologixGroup.com

Complete Solution For Biobanking

Construction and Intelligent Management For Biobanking

Biobank



Biosample library is also called Bio Bank (Biobank), mainly refers to standardized collection, processing, storage and application of health, disease organisms of biological macromolecules, cells, tissues and organs and other samples, as well as related to these biological samples of clinical, pathological, therapeutic, follow-up, informed consent and other information and quality control, information management and application systems. The Biological sample library has the mission of protecting precious resources in the field of life sciences and precision medical research, and has become the key resource and foundation to support the rapid development of precision medicine.

CryoKING, a brand by Biologix, is specialized in research and development, production and sales. CryoKING strives to offer excellent and complete biobanking solutions to global biobanks, and to promote the rapid growth of life science.

CryoKING products focus and concentrate on standardization, formalization and digitalization of biobank. Its advantage is based on upstream industry, research and market integration, covering the downstream industry to offer complete and one-stop solution for modern biobank. Its overall technology is on the top level in this industry. With the professional design, advanced techniques, safe and efficient management, CryoKING covers every phase of biobanking and offers complete and one-stop service for biobanking products.

Safe

Advanced

Efficient





Biobank Design and Infrastructure Solutions

Biobank construction is comprehensive and systemic engineering which is demanding for the specialty of the subject, normative and practical operation of the standard.

Biologix has professional team from life science, automation and software developing field, in order to offer safe, professional and scientific biobank construction plan. Biobank design is conducted according to international relevant standards.

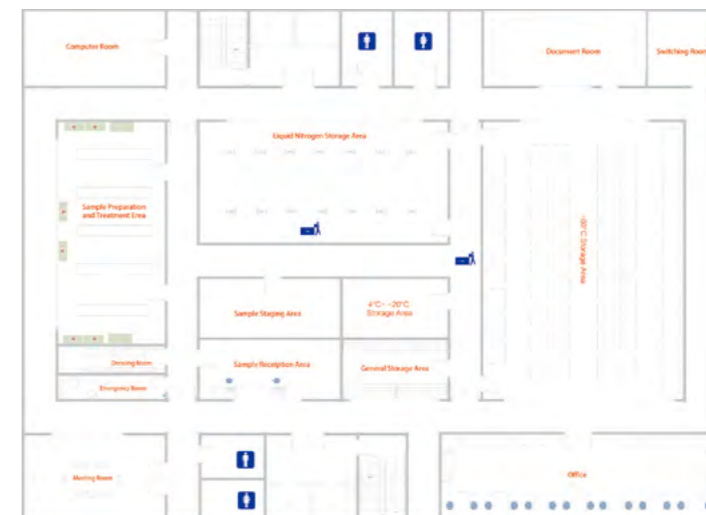
Small Scale Biobank



Medium Scale Biobank



Large Scale Biobank



Biobank Infrastructure of a Hospital - Facilities

System	No.	Components	Specification	Quantity	Unit
Infrastructure	1		Wires, cables and lights	1	Set
	2	Biobank Maintenance	Glass curtain wall reconstruction and glass door	1	Set
	3		Windows and ceiling reconstruction and wall painting	1	Set
	4	Furniture	Work Platform Tables and chairs(for computer and controlled rate freezer)	1	Set
Equipments	1	Liquid Nitrogen Tank of Vapor Phase	Equipped with: temperature display and temperature alarm, liquid level display and liquid level alarm, booster cover, rotating liner, automatic filling, anti-overflow, automatic exhaust, automatic fog-removal, remote real-time monitor Application: Long-term storage, anti cross contamination, guaranteed sample activity	1	
	2	Liquid Nitrogen Filling Tank of Self-pressurization	240L Liquid nitrogen filling tank of self-pressurization Application: Automatic filling liquid nitrogen for liquid nitrogen tank of vapor phase	2	
	3	Controlled Rate Freezer	Equipped with: One controlled rate freezer mainframe, one cryogenic vial rack, one spare solenoid valve, one liquid nitrogen filling tank of self-pressurization Use for conventional freezing to ensure sample activity	1	Set
	4	Dry Shipper Tank for Samples	Equipped with: Dry shipper liquid nitrogen tank, cryogenic box racks Application: Transmit samples to biobank from theatre	1	
	5	Oxygen Content Monitoring System and Ventilation System	Oxygen content monitoring system. Ventilation system are connected with oxygen content monitoring system, and when the oxygen content is below 19%, fans start to work.	1	Set
	6	-86 C Ultra-low Temperature Freezer	Temperature control system of touch screen, platinum resistor temperature sensor, LCD display screen for temperature, controlling precision is 1 C Sound and light alarm, temperature alarm. Password protection, USB data export, automatically records data every one minute. The computer can display temperature curve and data.	2	
	7	Handheld Scanners	CryoKING scanners can scan 2D barcodes and 1D barcodes; scan Biologix 2D barcoded cryogenic vials.	1	
	8	Laptop Scanners	Scanning software can be updated for free, no user restrictions. Scanner holder for which 2 Cryogenic boxes can be scanned.	1	
Software	1	Biobanking Management Software	Storage capacity setting, biobanking management, approval, warn, print, sample export and import, and sample report. Quality control, follow-up, HIS/LIS connection, temperature control and management, can be customized.	1	
	2	Biobanking Monitoring System and Remote Alarming System	Short message query and alarm Display liquid nitrogen tank status, temperature, humidity and oxygen content, different colors for normal and alarming status	1	Set
	3	Server	4 core 3.0G processor, memory larger than 8G, 2T hard disk	1	Set
Supplies	1	Stainless Steel Racks for Liquid Nitrogen Tanks	1x14, 304 steel, stamping form, LxWxH: 140x140x786mm	24	
	2	Stainless Steel Racks for Ultra-low Freezers	304 steel, drawer type, can be oriented, LxWxH: 700x1400x300mm, 5 boxes per drawer, 5 drawer in total	40	
	3	2D Barcoded Cryogenic Vials and Boxes	1.5ml 2D barcoded cryogenic vials, multi codes on one vial, 100 vials per box, sterile and enzyme free	1336	Box
Biobank Safety	1	Safety Precaution and Emergency Equipment	Cryogenic glove, protective glasses and protective apron portable oxygen analyzer. Oxygen mask and emergency oxygen cylinder	1	Set



Sample Pretreatment and Preprocessing

With the rapid growth of life science and medicine, various types of scaled biobanks have been built. High efficient and standard preprocessing, the primary sector of dispensing and storing samples, is demanded.

Strict Biobanking operating procedures are demanded: Sample collection → Sample pretreatment → Put samples into cryogenic vials → Scan labels and record information → Put cryogenic vials into cryogenic boxes → Scan cryogenic boxes and record information → Put cryogenic boxes into racks → Put racks into freezers or liquid nitrogen tanks → Input storage path information → Samples are stored into freezers or liquid nitrogen tanks with strict and professional operation. With the rapid growth of biobanks, Biologix will never stop in research and development of biobanking solutions.

★ Multi Coding: Safe, Advanced, High Efficient

In order to make scientific research convenient and guarantee the uniqueness of scientific research achievements, Biologix launched the new concept "Multi Coding" to strengthen information security.

What is "Multi Coding"?

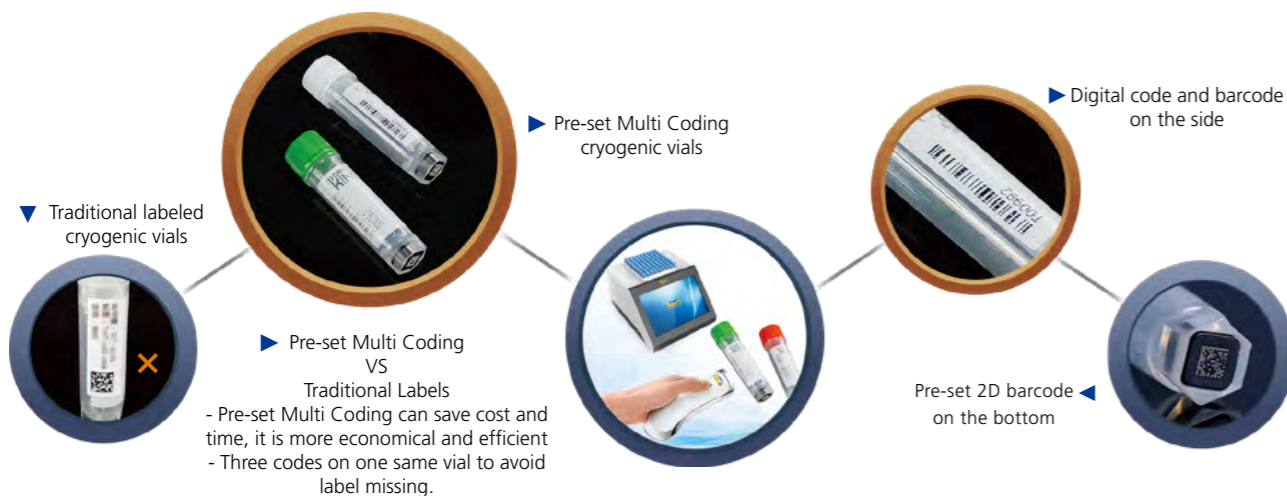
Bottom 2D barcode, side barcode and human readable numbers are all applied on the same vial to realize the identification of samples in multi ways.

Why we need "Multi Coding"?

The problems such as label missing, preset barcode damaging, cause data missing and incalculable loss to science research.

What are the advantages of "Multi Coding"?

Multi Coding Identification effectively reduces the sample damage caused by label missing or barcode damaging, and offers different choices to meet different needs of the laboratory situation. CryoKING "Multi Coding Identification" makes research work more secure, efficient and convenient.



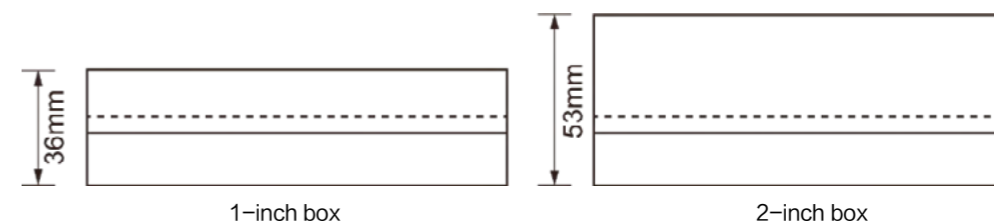
★ One-Inch Revolution

What does One-Inch Revolution mean?

Double your sample storage with half of the space and cost!

34032 extra samples can be stored per freezer!

One-Inch Design



10×10(100- well)

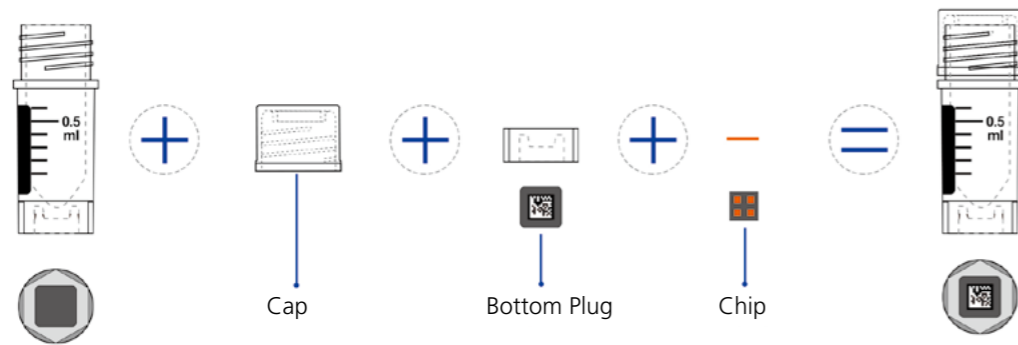
23% more samples can be stored compared with 9×9(81 -well) cryogenic box



RFID Chip Storage Technology

It integrates the advantages of radio frequency technology, and can automatically collect and identify information on electronic tags in sample collection and management.

- ◆ High efficiency of identification: radio frequency technology to read information directly without touching, defrosting or defogging; reduces sample residence time at room temperature.
- ◆ Precise orientation: pre-set RFID chip at the bottom of vials can encrypt data; laser etched barcode at the bottom of 2D barcoded cryogenic vials.
- ◆ Ultra-low temperature storage: can be stored in liquid nitrogen at -196°C .



Automated Product Series of SBS Standard

Biologix automatic product series of SBS standard is in accordance with international standard sizes. It has advantages of high automation, standardization and scalability to increase the efficiency of biobanking information management.

Traceability: 2D barcodes on 96-well format cryogenic vials are easy to be read, even in harsh conditions; three barcodes on the side of SBS format rack, and 2D barcode at the bottom; information of cryogenic vials and racks can be scanned and read at one time.

Safety: simple yet powerful mechanical locking function, slide the buttons on both sides to unlock; laser etched 2D barcodes, resistant to DMSO and other organic solvents;

Superior compatibility: SBS format rack fits 96-well format cryogenic vials perfectly for automatic operations.

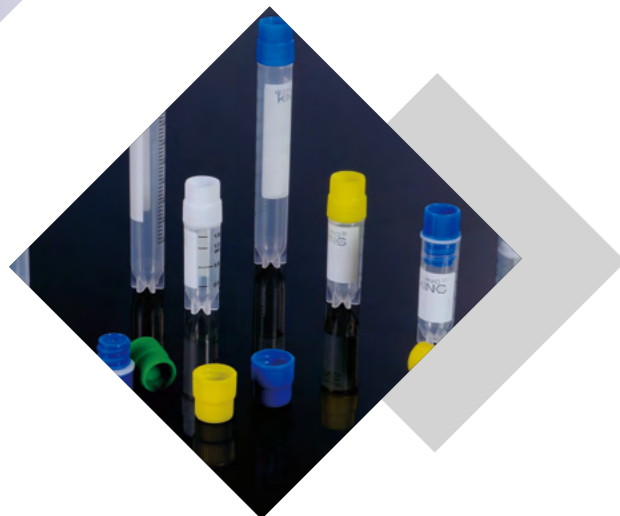




Cryogenic Vials

Under concepts of “One-Inch Revolution” and “Multi Coding”, Biologix offers screw cap microtubes, cryogenic vials, cryogenic vials with multi codes in various capacities, available for storage in ultra-low temperature system and liquid nitrogen system.

- ◆ Cryogenic vials (not including 2ml & 5ml vials) and screw cap microtubes are all designed with screw thread and sealing rings, available to be stored at ultra-low temperature.
- ◆ 2ml cryogenic vials are available with either internal or external screw threads, and 5ml cryogenic vials are external threads screw. For external thread vials, no sealing rings. Freezable to -196°C. Six colors for caps.
- ◆ 2D barcoded cryogenic vials are available with pre-set barcodes or multi codes which can be customized. Can be stored in vapor phase of liquid nitrogen.



Cryogenic Boxes

- ◆ Complete cryogenic box line to meet biobanking needs.
- ◆ Cardboard, PP, PC are available for storage at ultra-low temperature and liquid nitrogen.
- ◆ 1in, 2in, 3in, 3.75in are all available to fit various cryogenic vials.
- ◆ 25-well, 81-well and 100-well boxes are available for different storage space.
- ◆ Separated lid design or hinged lid design are available, alphanumeric labeling enables quick and easy identification.



**Various Styles to
Meet Different Needs**

Cryogenic Racks

- ◆ Various designs
- ◆ Sliding drawer racks, side access drawer racks, frame type racks, vertical type racks are available for freezers and liquid nitrogen system
- ◆ Made of corrosion-resistant stainless steel or aluminium, and fit different cryogenic boxes
- ◆ Can be customized



Biobanking Storage System

With the trend of global information, big data, biobank and precision medicine are recognized by all countries. In the future, the quantity of samples to be stored will increase geometrically based on the present quantity of billions. Safe low-temperature storage and traceable sample information promote the rapid development of life science and medical industry. Therefore, the safe storage and efficient management become the most urgent for general users.

-86°C Ultra Low Temperature Freezers

Five Advantages
 Imported famous compress, split evaporator, counterflow heat exchanger, optimized segregation system and efficient temperature control system to reduce energy consumption to a half.



Safety System

- ◆ Audible and visual alarm: High or low temperature alarm, Power failure alarm, Low battery alarm, Door open alarm, Filter blocking alarm, System failure alarm
- ◆ Keyboard lock and password protected configuration page, delayed start and safe stop interval between restart and being terminated

Refrigeration System

- ◆ Imported famous brand compressor, fan electromotor with Germany EBM
- ◆ Unique refrigeration circulation and unipolar compressor oil-lubricated technology
- ◆ China Patent technology of mixture refrigerant, specially single stage refrigeration design

Operator Friendly Design

- ◆ Foaming insulation doors in two layers of patented designs for good heat preservation.
- ◆ With USB store functions
- ◆ Optional: Chart recorder, CO₂ backup system, storage racks or boxes, remote alarm system

Intelligent Temperature Control

- ◆ 7inch touch screen controller
- ◆ Microprocessor-based temperature controller, -10°C~-86°C adjustable

Operator Friendly Design

- ◆ Stainless steel interior, outer is painted steel panel, 4 units casters for easy handling
- ◆ Front opening lockable door with new ingenious handle, easy open and close.
- ◆ Vacuum release port
- ◆ Adjustable stainless steel shelves with inner insulation doors, double silicon gasket seal

Biobank Liquid Nitrogen Storage Products

- ◆ Available for vapor and liquid phase
- ◆ Available for different capacities
- ◆ Stable temperature control
- ◆ Advanced temperature monitoring system, liquid level monitoring system and alarming system
- ◆ Automatic liquid nitrogen filling system
- ◆ The microprocessor system keeps data and information forever
- ◆ Demist button
- ◆ Special design for convenient operation
- ◆ Lockable lid to ensure the safety of samples
- ◆ CE certified



High-density of Sample Storage

Store more samples compared with traditional containers. Reduce storage cost.

Uniform Temperature

Special stainless steel vacuum design keeps temperature uniform.

Stable Temperature

Innovative design of neck and lid reduces evaporation. After opening the container, temperature remains below -150 °C within 48 hours.

Advanced Temperature Controlling System

Can display highest and lowest temperatures, tolerance: $\pm 1^{\circ}\text{C}$. Users can set alarm according to requirements. Mute temperature alarm set is available.

Auto Liquid Nitrogen Filling System and Liquid Level Monitoring System

Fill liquid nitrogen accurately. The touch screen can display temperatures of different components.

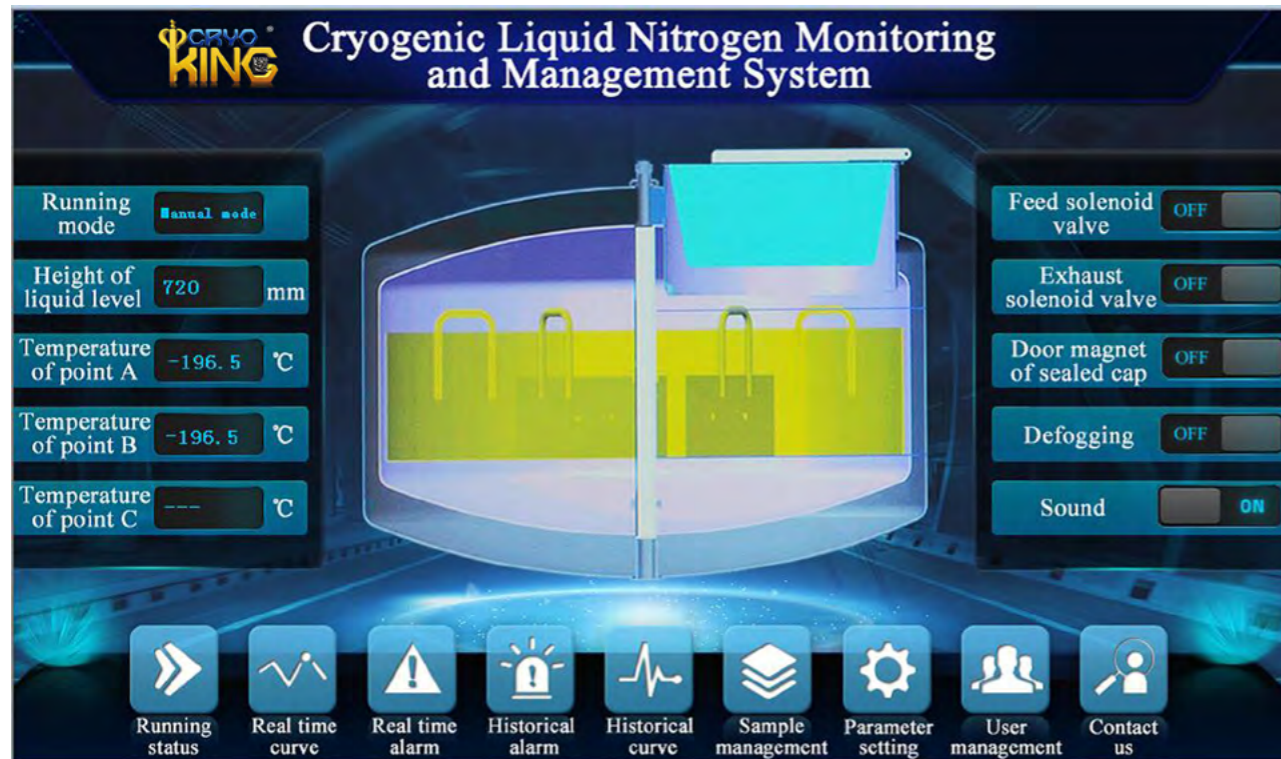
Hot Gas Bypass

Only the low-temperature liquid nitrogen can be filled.

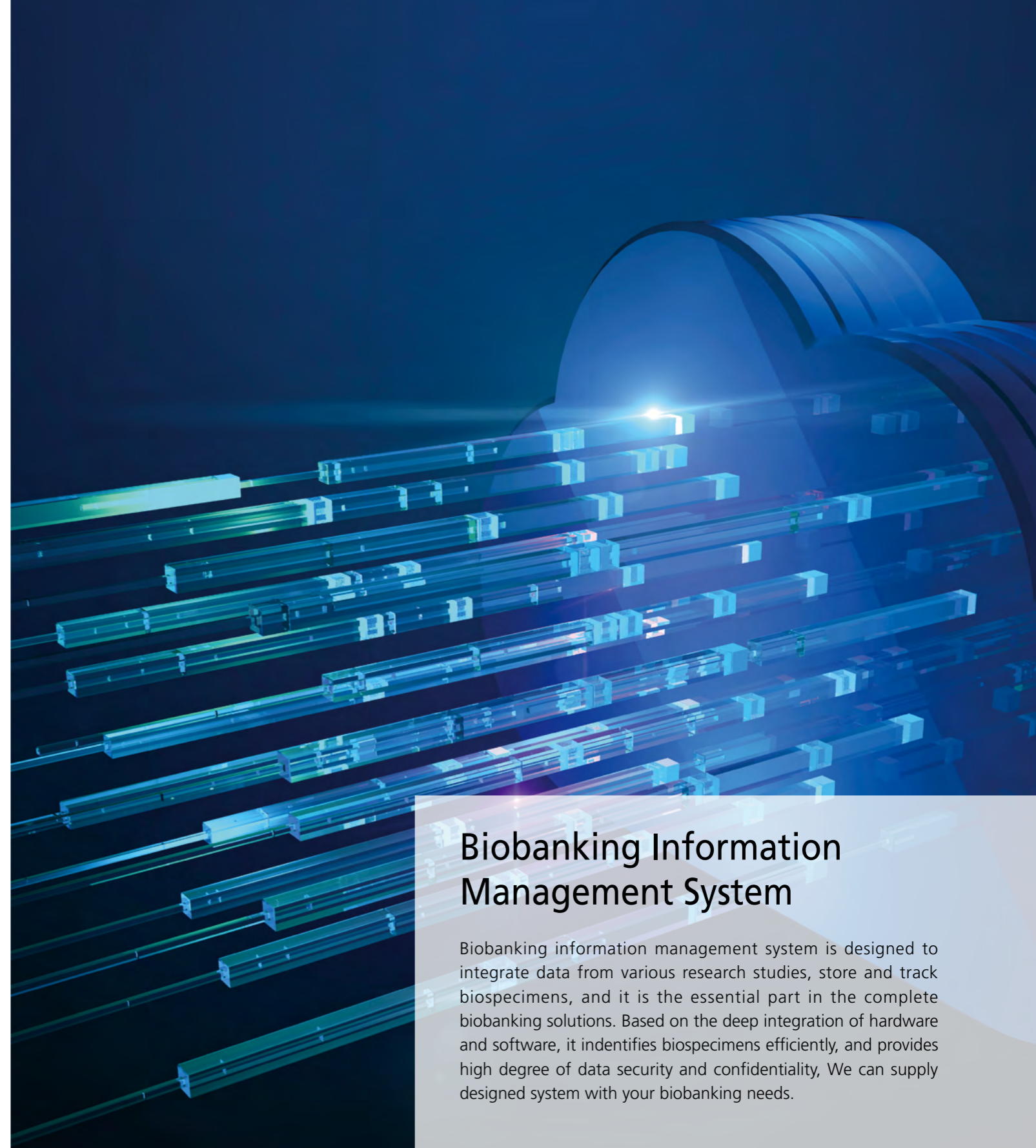
Operator Friendly Designs

Designs of stainless steel operation platform, integral foldable steps and inner rotating tray are convenient for operation.

Intelligent Monitoring System--CKN-SU2700



- ◆ Automatic filling of liquid nitrogen
- ◆ Anti-splash of liquid nitrogen
- ◆ Hot gas bypass
- ◆ Platinum resistor temperature sensor
- ◆ Liquid level sensor
- ◆ Automatic records of liquid level, temperature and others
- ◆ Local monitor center
- ◆ Cloud-monitoring management center
- ◆ Kinds of fault alarms and self-adaptive function
- ◆ Message remote alarm
- ◆ Operation authority setting
- ◆ Operation/alarm setting
- ◆ Audible and visual alarm setting
- ◆ Back-up power and UPS power



Biobanking Information Management System

Biobanking information management system is designed to integrate data from various research studies, store and track biospecimens, and it is the essential part in the complete biobanking solutions. Based on the deep integration of hardware and software, it identifies biospecimens efficiently, and provides high degree of data security and confidentiality, We can supply designed system with your biobanking needs.

Biobanking Intelligent Identification System

With the rapid growth of biobank, many scientific researchers need to rapidly and efficiently identify, store and track biospecimen data. CryoKING biobanking identification system is your best choice.

After years of development, Biologix identification instruments now include handheld scanners (for individual vial) and laptop scanners (for entire box of vials), and integrate the optical and infrared techniques. It features intensivism and modularization.

Safe

Efficient

Advanced



CryoKING Laptop Scanner for Entire Box of Vials, 1st Generation

Advanced image identification technique; accurately scan without the interruption of frozen fog

Can scan an entire box of 200 vials in 5 seconds

Equipped with PC scanner software for free, and can be paired with international database, such as SQL server, Oracle, MySQL, Postgres, HSQL.



CryoKING Handheld Infrared Scanner for Individual Vial, 1st Generation

Can read both 1D barcodes and 2D barcodes

Infrared identification technique for to read rapidly

Can be equipped with professional display software



CryoKING Maestro Laptop Scanner for Entire Box of Vials, 2nd Generation

Combines advanced optics and computer technology to scan individual vial and entire box of vials rapidly

Pre-set 8x12, 9x9 and 10x10 scanning modules to scan various cryogenic boxes under international standards accurately

Pre-set scanning hole to scan 2D barcode on individual vial accurately

Preset inside computer to deal with data, data can be exported out using Wi-Fi, Bluetooth and other connections



CryoKING Adept Handheld Scanner for Individual Vials, 2nd Generation

Can read both 1D barcodes and 2D barcodes

Wireless technique, infrared identification, can be connected with various electronic devices without data line

Imported American barcode scanning module

Equipped with professional scanning software

Visit www.BiologixGroup.com and www.cryoKING.com for more information



Custom developed system to meet different demands

Universal data docking

Deep integration of hardware and software

CryoKING Crown Biobanking Management Software

Low level of management efficiency and data security, tedious operation and other problems often happen in the biobanking management. In order to avoid these defects, Biologix, combined with the most advanced technical research, has developed this safe, efficient and advanced biobanking management software.



Biobanking Efficient Management

Substantial progress and crucial accomplishments of life science researches, medical experiments and researches successful or not depends on superior quality of biospecimens which can be obtained after strict preprocessing, long-term storage, and management in biobank. This requires a precise, efficient and complete management process to protect biobanking resource.

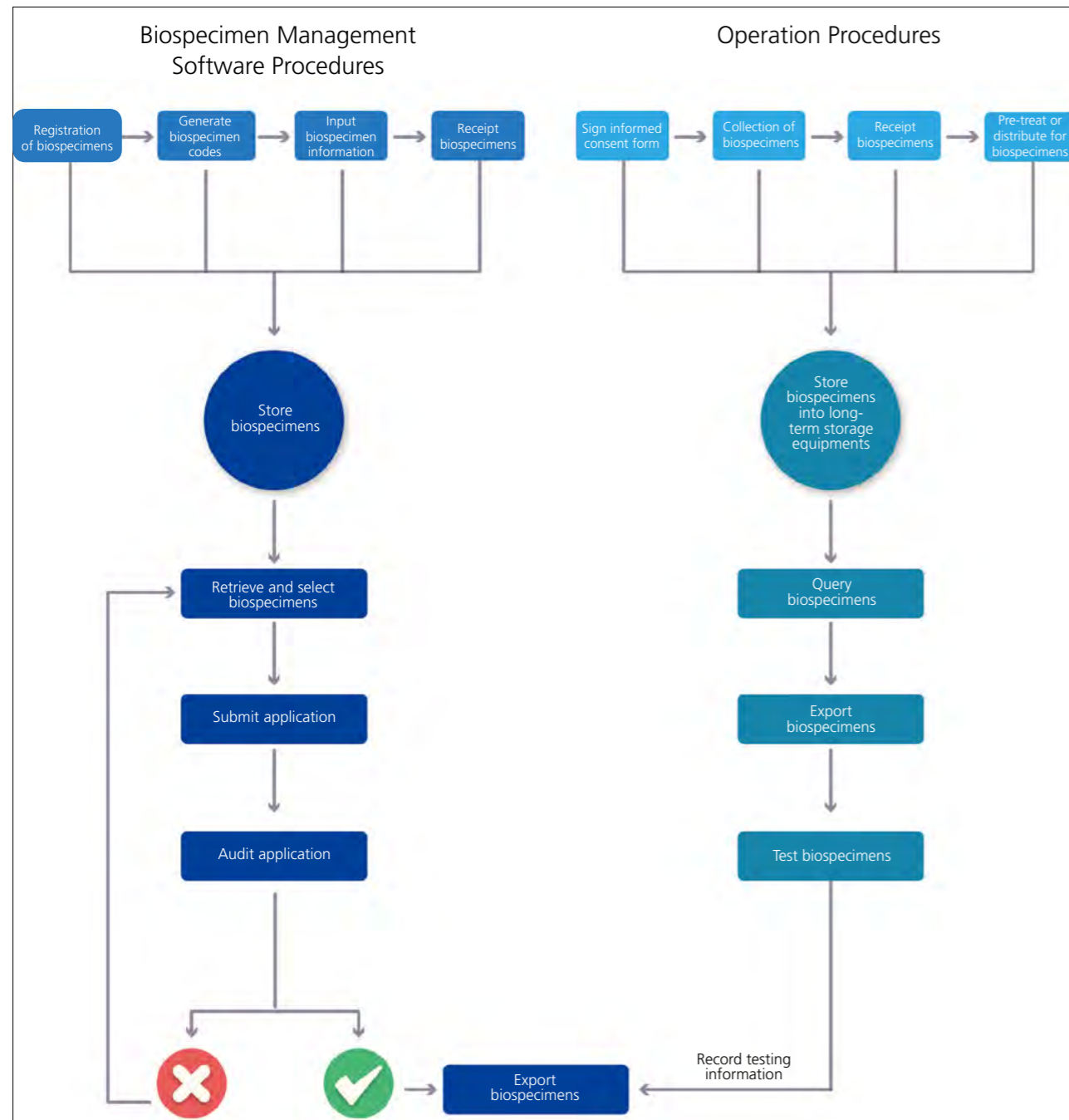
- ◆ Browser/server structure
- ◆ Set up on server, users can freely access with browser
- ◆ Visual effective operation interface: each storage unit can be easily found, which will be convenient for operation
- ◆ Powerful and easy-to-use functions
- ◆ Optional data storage solution: public cloud, private cloud and private server
- ◆ Deep integration of hardware and software, excellent cost-effective



CryoKING Crown Biobanking Management Software, based on Cloud service, is designed for life science researchers to management samples effectively. It can track and manage samples and data with security and stability.

● Registration and Receipt

● Management Modular



Functions of CryoKING Crown Biobanking Management Software

- Storage** ▶ Display sample storage location and associated devices, manage together with the storage information and clinical research data and others, batch import and export data to promote management efficiency.
- Storage Setting** ▶ Manage associated devices to satisfy users' needs of personalized settings.
- Approve** ▶ Audit the upper level results, and can consult the result.
- System Setting** ▶ Print template setting, operation log monitor and ideal data security assurance
- Help Info** ▶ Solve any problem in usage, supply superior service

Storage

Excel Batch Import
 Add Samples
 Print Barcode
 Operation
 Sample Management
 Sample Report

Storage Setting

Rooms
 Freezer Racks
 Freezer Type
 Freezer Box Type
 Warning
 Sample Property
 Freezers
 Boxes
 Freezer Rack Type
 Warning Type
 Sample Icon
 Sample Template

Approval

Approval
 Approval Result

System Setting

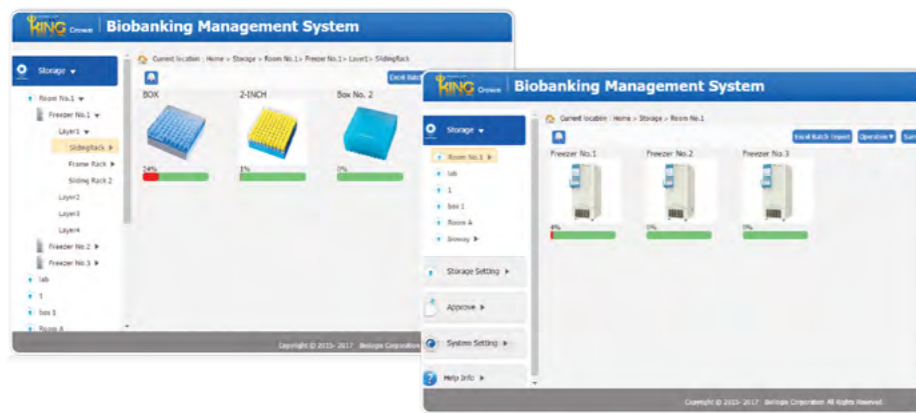
Print Template
 Log

Help Information

Software Instruction
 Barcode Print Control Download
 Contact Us

Technical Framework of CryoKING Crown Biobanking Management Software

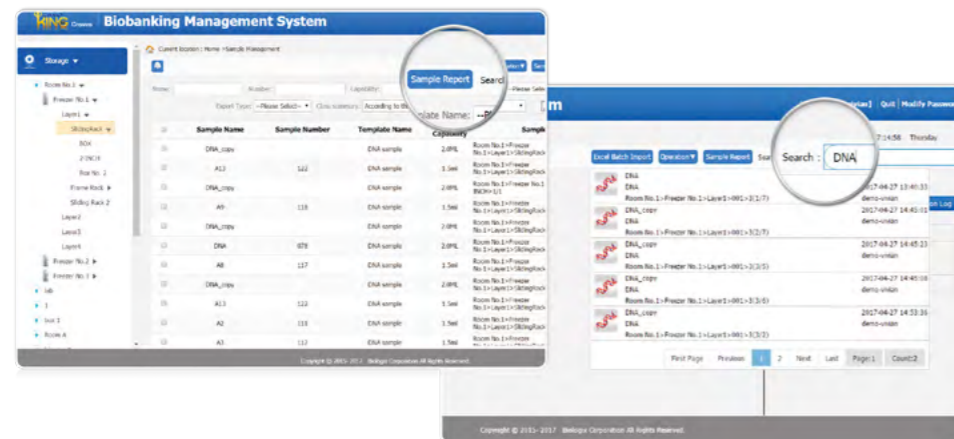
The database of CryoKING Crown biobanking management software adopts B/S framework, supports multiple browsers. HTML language



Information and data are accordant with international relevant laws and regulations

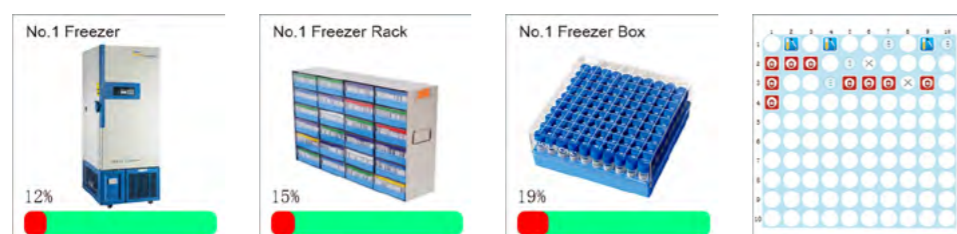
Information Query

Efficient information query can improve work efficiency.



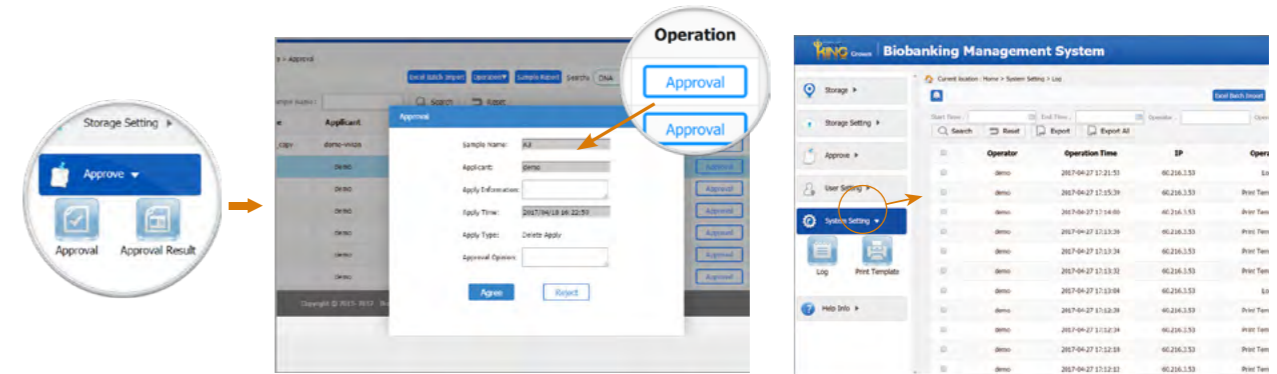
Graphic Management

Display sample storage states directly



Approval and Operation Logs

CryoKING database has the perfect approval function, and keep track original data, data changes, operator and changes. Read only.



Permission Settings

CryoKING sets different roles, including buttons, textboxes, lists and so on, according to different situations to enhance data security and sample information privacy.



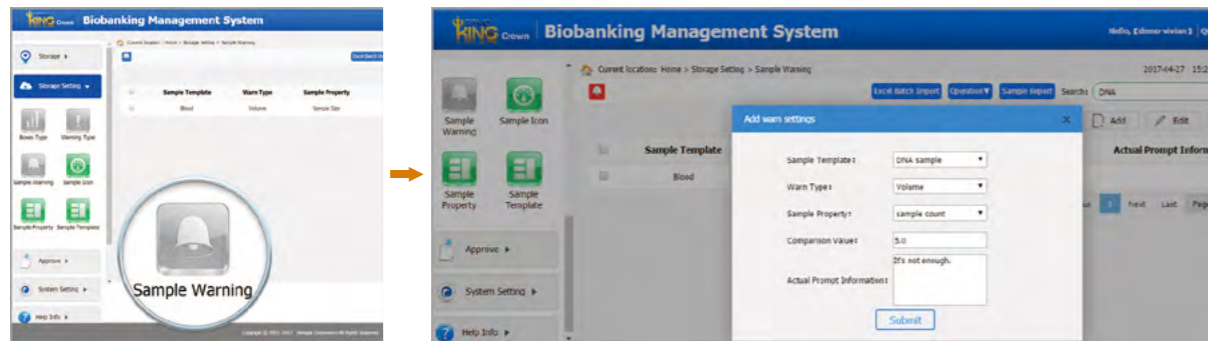
Batch Import and System Interface

Convenient and fast to import or export data information directly by files.



Warning Mechanism

When it appears data anomaly status, there will be alert alarm showed in the software to ensure database security.



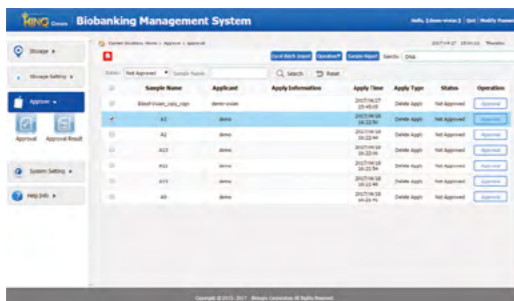
System Introduction



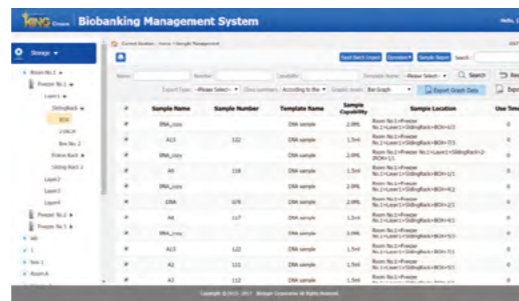
Login Name and Password, Chinese or English Language



Function Modular Display



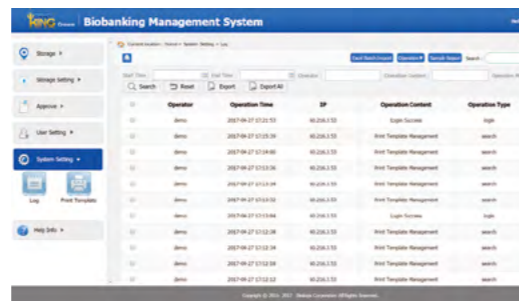
Approval



Export



Print Template and Barcodes Printing Setting



Real-time Operating Log

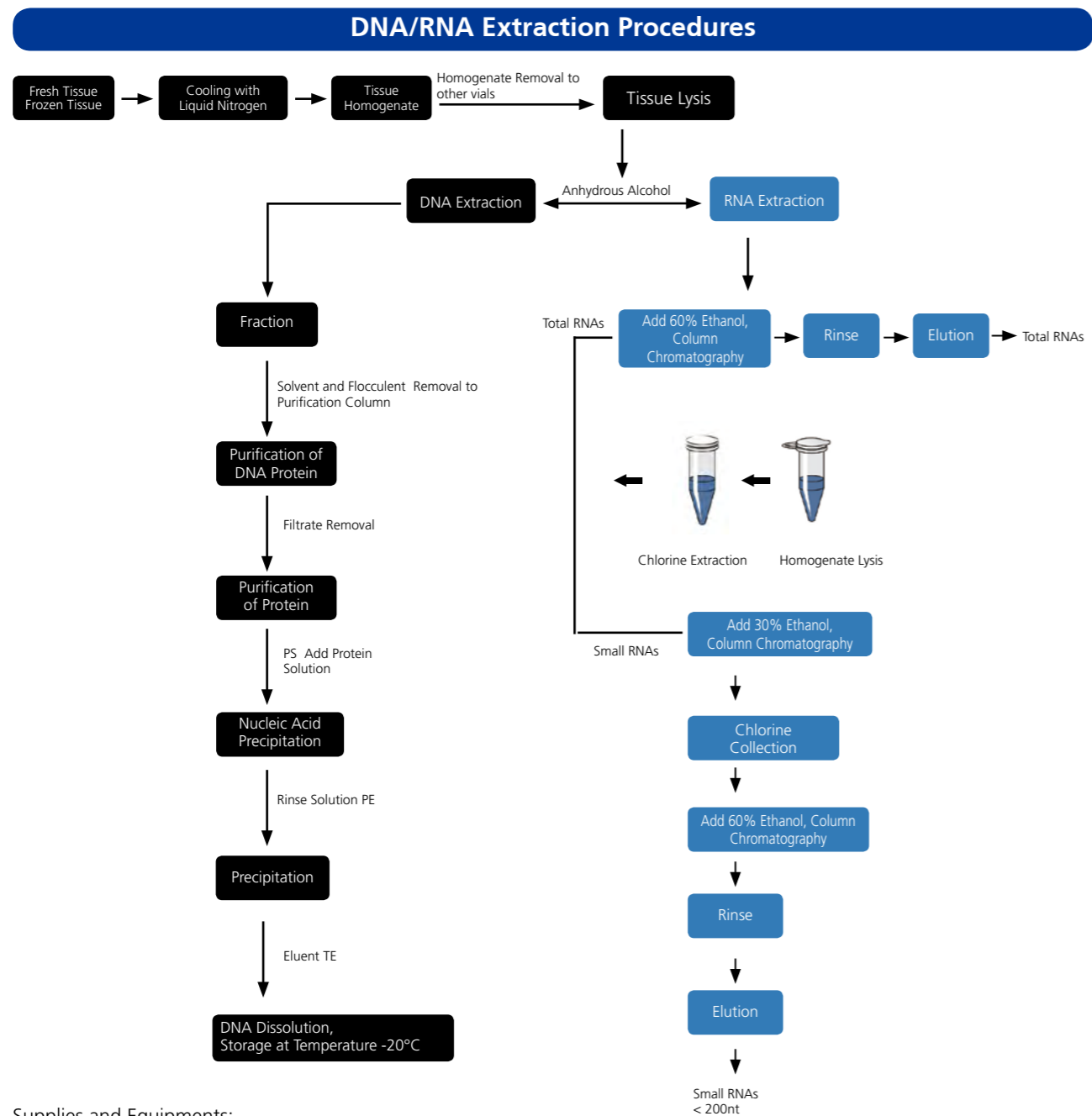


Research on Post Processing of Biospecimens

The research on post processing is the most important section in biobanking management. With biobanking information, researchers can get complete data of relevant active components of DNA and RNA, and analyze biospecimen properties.

Biobanking Application

In order to protect biological stability and integrity, besides the strict and canonical sample extraction and application, instruments, supplies and reagents also demand high design and production standards and requirements. Biologix offers advanced instruments and high-purity supplies for sample post processing.



Supplies and Equipments:

Liquid Nitrogen Tank, Cryogenic Vials, EP Vilas, Mortar and pestle, Purification Column, Centrifuge, Pipettes Tips, Sealing Machine, Cryogenic Boxes, Racks, Scanners, Freezers, Biobanking Management Software and more.

Visit www.Biologixgroup.com and www.CryoKING.com for more information

CRYO KING[®]

Consultation, Services and Training

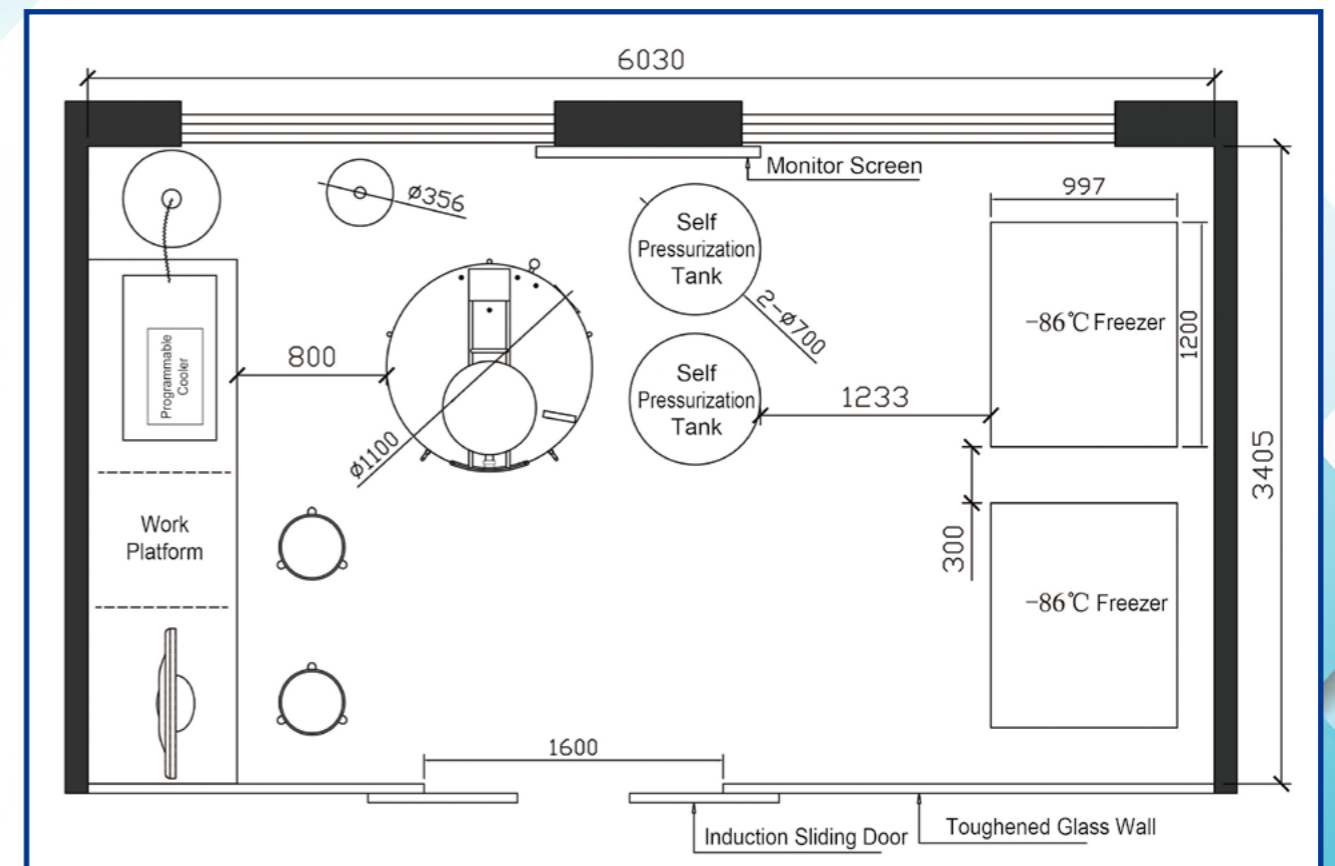
Biologix is concentrated on biobanking services with professional techniques, practice and complete biobanking system. Our skilled technicians will supply your biobanking products and service designed for you.

Application-Biobank Construction

Small Scale Biobank Infrastructure- Infrastructure Design

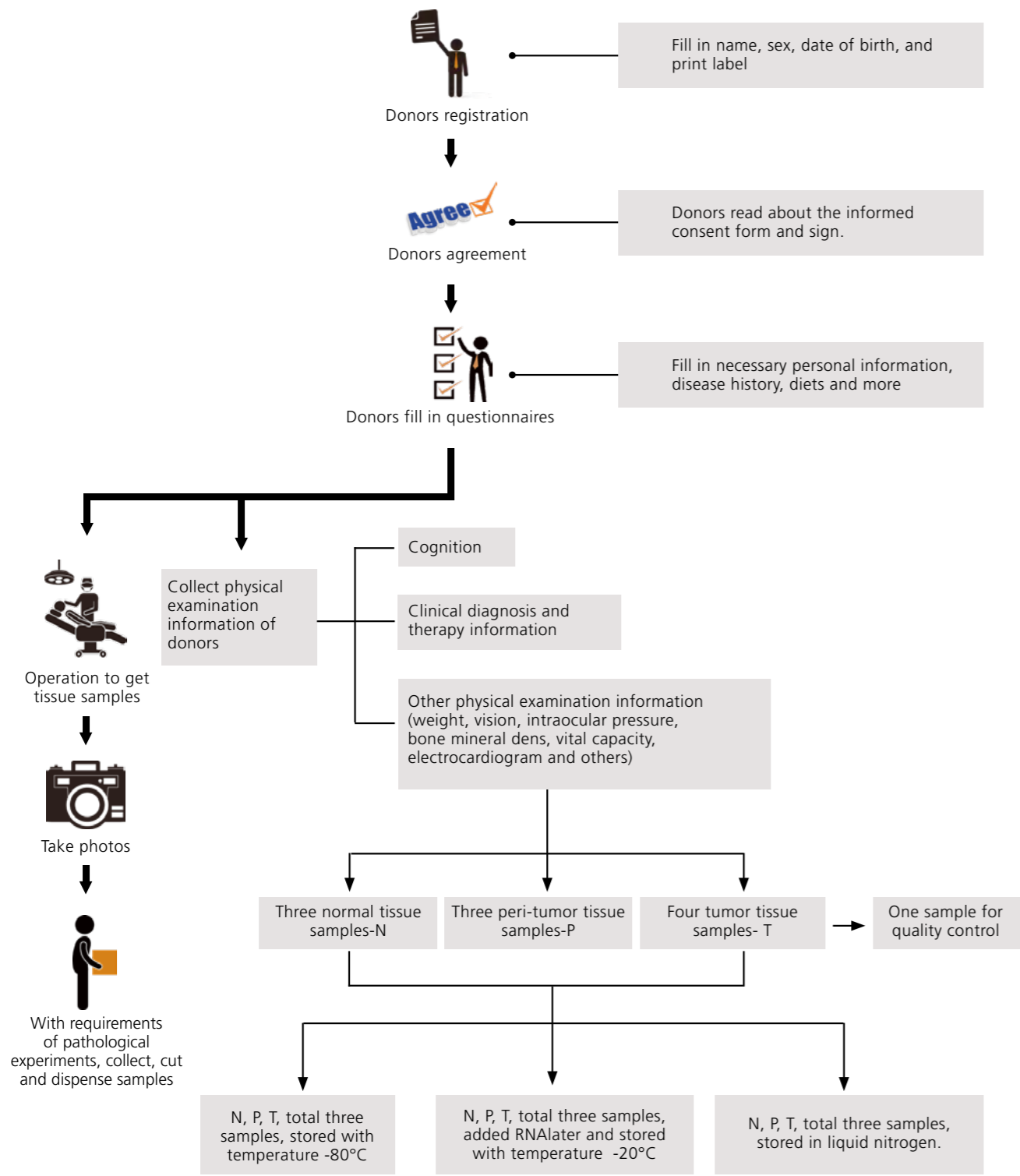


- Design of biobank infrastructure
 - Design of Biobanking workflow SOP
 - Consultation of operating mechanism
 - On-site guidance
 - Biobanking planning for short, medium and long term
-
- Guidance of biospecimen collection, storage and application
 - Consultation of cryogenic preservation techniques
 - Regular training for biobanking staff
 - Cooperative research of biospecimen
 - Collaboration services of follow-up research
-
- Complete cryogenic supplies
 - Maintenance and repair of storage equipments
 - Installation, trial and upgrade of management software
 - Follow up service and regular maintenance and repair



Biobank Infrastructure of a Hospital- Partial designs of Procedures

Tissue Sample Collection Procedures of a Hospital



Partners

Biologix has been offering the complete biobanking services for many scientific research institutes from home and abroad, and recognized by our customers because of the safety, advance and high efficiency



Parameter List

Traditional ---Cryogenic Screw Cap Microtubes (Working Temperature: -86°C ~121°C)

Cat #	Type	Volume	Height (mm)	Color	Writing Area	Bottom	Sterile	Unit
81-0053	Screw Cap Microtubes	0.5ml	30.0	Clear	No	Conical	No	500 /Bag, 10 Bags/Case
81-0054	Screw Cap Microtubes	0.5ml	31.0	Clear	No	Self-Standing	No	500 /Bag, 10 Bags/Case
81-0055	Screw Cap Microtubes	0.5ml	47.5	Brown	No	Self-Standing	No	500 /Bag, 10 Bags/Case
81-0056	Screw Cap Microtubes	0.5ml	47.5	Clear	No	Self-Standing	No	500 /Bag, 10 Bags/Case
81-0153	Screw Cap Microtubes	1.5ml	46.5	Clear	No	Conical	No	500 /Bag, 10 Bags/Case
81-0154	Screw Cap Microtubes	1.5ml	47.5	Clear	No	Self-Standing	No	500 /Bag, 10 Bags/Case
81-0203	Screw Cap Microtubes	2.0ml	46.1	Clear	No	Conical	No	500 /Bag, 10 Bags/Case
81-0204	Screw Cap Microtubes	2.0ml	47.5	Clear	No	Self-Standing	No	500 /Bag, 10 Bags/Case
81-0205	Screw Cap Microtubes	2.0ml	47.5	Brown	No	Self-Standing	No	500 /Bag, 10 Bags/Case
81-000X	Caps	--	--	--	--	--	No	500 /Bag, 10 Bags/Case
81-0006	Caps	--	--	Brown	--	--	No	500 /Bag, 10 Bags/Case
81-7053	Cryogenic Vials	0.5ml	30.0	Clear	No	Conical	Yes	50 Sets/Bag, 40 Bags/Case
81-7054	Cryogenic Vials	0.5ml	31.0	Clear	No	Self-Standing	Yes	50 Sets/Bag, 40 Bags/Case
81-7055	Cryogenic Vials	0.5ml	47.5	Brown	No	Self-Standing	Yes	50 Sets/Bag, 40 Bags/Case
81-7056	Cryogenic Vials	0.5ml	47.5	Clear	No	Self-Standing	Yes	50 Sets/Bag, 40 Bags/Case
81-7153	Cryogenic Vials	1.5ml	46.5	Clear	No	Conical	Yes	50 Sets/Bag, 40 Bags/Case
81-7154	Cryogenic Vials	1.5ml	47.5	Clear	No	Self-Standing	Yes	50 Sets/Bag, 40 Bags/Case
81-7203	Cryogenic Vials	2.0ml	46.1	Clear	No	Conical	Yes	50 Sets/Bag, 40 Bags/Case
81-7204	Cryogenic Vials	2.0ml	47.5	Clear	No	Self-Standing	Yes	50 Sets/Bag, 40 Bags/Case
81-7205	Cryogenic Vials	2.0ml	47.5	Brown	No	Self-Standing	Yes	50 Sets/Bag, 40 Bags/Case
81-8204	Cryogenic Vials	2.0ml	47.5	Clear	Yes	Self-Standing	Yes	50 Sets/Bag, 40 Bags/Case

X--Cap Color : 0-Clear, 1-Pink, 2-Green, 3-Blue, 4-Yellow, 5-Assorted

Classical -- Patent Design -- Cryogenic Vials (Working Temperature: -196°C ~121°C)



Cat #	Type	Thread Type	Volume	Bottom	Side Barcode	Writing Area	Sterile	Unit
88-321X	Cryogenic Vials	Internal	2ml	Self-Standing	No	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-320X	Cryogenic Vials	External	2ml	Self-Standing	No	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-350X	Cryogenic Vials	External	5ml	Self-Standing	No	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-621X	Cryogenic Vials	Internal	2ml	Self-Standing	Yes	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-620X	Cryogenic Vials	External	2ml	Self-Standing	Yes	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-650X	Cryogenic Vials	External	5ml	Self-Standing	Yes	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-600X	Color marker	-	-	-	-	-	-	100 Sets/Bag, 10 Bags/Case

X--Color of Caps or Color markers : 0-White, 1-Red, 2-Green, 3-Blue, 4-Yellow, 5-Purple

CryoKING Cryogenic Vials—Patent Design (Working Temperature: -196°C ~121°C)



Cat #	Thread Type	Volume	Bottom	Bottom Barcode	Side Barcode	Writing Area	Sterile	Unit
88-005X	External	0.5ml	Self-Standing	No	No	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-010X	External	1.0ml	Self-Standing	No	No	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-015X	External	1.5ml	Self-Standing	No	No	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-020X	External	2.0ml	Self-Standing	No	No	Yes	Yes	25 Sets/Bag, 40 Bags/Case
88-021X	Internal	2.0ml	Self-Standing	No	No	Yes	Yes	25 Sets/Bag, 40 Bags/Case

CryoKING Combo (Working Temperature: -196°C ~121°C)

Cat #	Volume	Thread Type	Bottom Barcode on Vials	Side Barcode on Vials	Wells	Dimensions(mm)	Unit
89-305X	0.5ml Vials + 1 in Box	External	Yes	No	100-well	133x133x36	100 Sets Vials+ 1 Box/Bag, 6 Bags/Pack, 2 Packs/Case, 1200 Sets Vials+ 12 Boxes/Case
89-310X	1.0ml Vials + 2 in Box	External	Yes	No	100-well	133x133x52	
89-315X	1.5ml Vials + 2 in Box	External	Yes	No	100-well	133x133x52	
89-320X	2.0ml Vials + 2 in Box	External	Yes	No	100-well	133x133x52	
89-321X	2.0ml Vials + 2 in Box	Internal	Yes	No	100-well	133x133x52	
89-350X	5.0ml Vials + 3.75 in Box	External	Yes	No	81-well	133x133x95	
89-905X	0.5ml Vials + 1 in Box	External	Yes	Yes	100-well	133x133x36	
89-910X	1.0ml Vials + 2 in Box	External	Yes	Yes	100-well	133x133x52	
89-915X	1.5ml Vials + 2 in Box	External	Yes	Yes	100-well	133x133x52	
89-920X	2.0ml Vials + 2 in Box	External	Yes	Yes	81-well	133x133x52	
89-921X	2.0ml Vials + 2 in Box	Internal	Yes	Yes	81-well	133x133x52	
89-950X	5.0ml Vials + 3.75 in Box	External	Yes	Yes	81-well	133x133x95	

X--Cap Color : 0-White, 1-Red, 2-Green, 3-Blue, 4-Yellow, 5-Purple

96-well SBS Cryogenic Vials (Working Temperature: -196°C ~121°C)

Cat #	Type	Thread Type	Volume	Bottom	Bottom Barcode	Writing Area	Sterile	Unit
88-403X	Vials	Internal	300µl	Self-Standing	Yes	No	Yes	96 Sets/Bag, 10 Bags/Pack, 2 Packs/Case
88-405X	Vials	Internal	500µl	Self-Standing	Yes	No	Yes	96 Sets/Bag, 10 Bags/Pack, 2 Packs/Case
88-408X	Vials	Internal	750µl	Self-Standing	Yes	No	Yes	96 Sets/Bag, 10 Bags/Pack, 2 Packs/Case
88-410X	Vials	Internal	1000µl	Self-Standing	Yes	No	Yes	96 Sets/Bag, 10 Bags/Pack, 2 Packs/Case

X--Cap Color : 0-White,1-Red,2-Green,3-Blue,4-Yellow,5-Purple

SBS Format Cryogenic Racks (Working Temperature: -196°C ~121°C)

Cat #	Vial Volume	Wells	Color	Dimensions(mm)	Unit
98-4117	300µl & 500µl	96-well	Blue	128x85x35	10/Pack , 2 Packs/Case
98-4217	750µl & 1000µl	96-well	Blue	128x85x54	10/Pack , 2 Packs/Case

SBS Format Combo (Working Temperature: -196°C ~121°C)

Cat #	Description	Bottom Barcode	Side Barcode	Wells	Dimensions(mm)	Unit
89-403X	300µl Vials+Rack	Yes	No	96-well	128x85x35	96 Sets Vials+1 Rack/Bag, 10 Bags/Pack, 2 Packs/Case, 1920 Sets Vials+20 Racks/Case
89-405X	500µl Vials+Rack	Yes	No	96-well	128x85x35	
89-408X	750µl Vials+Rack	Yes	No	96-well	128x85x54	
89-410X	1000µl Vials+Rack	Yes	No	96-well	128x85x54	

X--Cap Color : 0-White, 1-Red, 2-Green, 3-Blue, 4-Yellow, 5-Purple

Premium Cardboard Cryogenic Boxes (Working Temperature: -196°C ~121°C)

Cat #	Height	Wells	Description	Color	Dimensions(mm)	Unit
90-2281	2 in	81-well	White coating, Plastic coating	White	133x133x52	5 /Bag, 20 Bags/Case
90-5281	2 in	81-well	Rainbow outer coating, matte coating	Assorted Colors	133x133x52	5 /Bag, 20 Bags/Case
90-2200	2 in	100-well	White coating, Plastic coating	White	133x133x52	5 /Bag, 20 Bags/Case
90-5200	2 in	100-well	Rainbow outer coating, matte coating	Assorted Colors	133x133x52	5 /Bag, 20 Bags/Case
90-2381	3 in	81-well	White coating, Plastic coating	White	133x133x76	5 /Bag, 20 Bags/Case
90-2300	3 in	100-well	White coating, Plastic coating	White	133x133x76	5 /Bag, 20 Bags/Case

ID-Color Cardboard Cryogenic Boxes (Working Temperature: -86°C ~121°C)

Cat #	Height	Wells	Divider Material	Dimensions(mm)	Unit
90-6100	1 in	100-well	ABS	133x133x36	5 /Bag, 4 Packs/Case
90-8100	1 in	100-well	PP	133x133x36	5 /Bag, 4 Packs/Case
90-6281	2 in	81-well	ABS	133x133x52	5 /Bag, 4 Packs/Case
90-8281	2 in	81-well	PP	133x133x52	5 /Bag, 4 Packs/Case
90-6200	2 in	100-well	ABS	133x133x52	5 /Bag, 4 Packs/Case
90-8200	2 in	100-well	PP	133x133x52	5 /Bag, 4 Packs/Case
90-8381	3.75 in	81-well	PP	133x133x95	5 /Bag, 4 Packs/Case

PC Cryogenic Boxes (Working Temperature: -196°C ~121°C)

Cat #	Height	Wells	Color	Dimensions(mm)	Unit
98-0113	1 in	100-well	Blue	133x133x36	3 /Bag, 4 Bags/Case
90-9250	2 in	25-well	Assorted Colors	75x75x52	5 /Bag, 6 Bags/Case
90-9009	2 in	81-well	Assorted Colors	133x133x52	5 /Bag, 4 Bags/Case
98-0213	2 in	100-well	Blue	133x133x52	3 /Bag, 4 Bags/Case
98-1213	2 in	81-well	Blue	133x133x52	3 /Bag, 4 Bags/Case
90-9210	2 in	100-well	Assorted Colors	133x133x52	5 /Bag, 4 Bags/Case
90-9381	3.75 in	81-well	Assorted Colors	133x133x95	5 /Bag, 4 Bags/Case
98-0313	3.75 in	81-well	Blue	133x133x95	3 /Bag, 4 Bags/Case

PP Cryogenic Boxes (Working Temperature: -86°C ~121°C)

Cat #	Height	Wells	Color	Dimensions(mm)	Unit
90-9025	2 in	25-well	Assorted Colors	75x75x52	5 /Bag, 6 Bags/Case
90-9081	2 in	81-well	Assorted Colors	133x133x52	5 /Bag, 4 Bags/Case
90-9100	2 in	100-well	Assorted Colors	141x154x55	5 /Bag, 4 Bags/Case
90-9200	2 in	100-well	Assorted Colors	133x133x52	5 /Bag, 4 Bags/Case

Cryogenic Racks (Biologix offer custom designed racks)

Cat #	Type	Material	Volume	Dimensions(mm)(DxWxH)	Storage box size(mm)
99-1216	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 4	564 x 141 x 229	133 x 133 x 52
99-1220	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 5	564 x 141 x 285	133 x 133 x 52
99-1224	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 6	564 x 141 x 341	133 x 133 x 52
99-1124	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 6	564 x 141 x 245	133 x 133 x 36
99-1128	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 7	564 x 141 x 285	133 x 133 x 36
99-1132	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 8	564 x 141 x 325	133 x 133 x 36
99-7216	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 4	564 x 141 x 229	133 x 133 x 52
99-7220	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 5	564 x 141 x 285	133 x 133 x 52
99-7224	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 6	564 x 141 x 341	133 x 133 x 52
99-7124	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 6	564 x 141 x 245	133 x 133 x 36
99-7128	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 7	564 x 141 x 285	133 x 133 x 36
99-7132	Sliding Drawer	Corrosion-resistant Stainless Steel	4 x 8	564 x 141 x 325	133 x 133 x 36
99-5212	Side Access Drawer	Corrosion-resistant Stainless Steel	3 x 4	420 x 140 x 240	133 x 133 x 52
99-5215	Side Access Drawer	Corrosion-resistant Stainless Steel	3 x 5	420 x 140 x 300	133 x 133 x 52
99-5216	Side Access Drawer	Corrosion-resistant Stainless Steel	4 x 4	560 x 140 x 240	133 x 133 x 52
99-5220	Side Access Drawer	Corrosion-resistant Stainless Steel	4 x 5	560 x 140 x 300	133 x 133 x 52
99-2118	Frame Type	Corrosion-resistant Stainless Steel	3 x 6	420 x 137 x 244	133 x 133 x 36
99-2121	Frame Type	Corrosion-resistant Stainless Steel	3 x 7	420 x 137 x 284	133 x 133 x 36
99-2120	Frame Type	Corrosion-resistant Stainless Steel	4 x 5	560 x 137 x 204	133 x 133 x 36
99-2124	Frame Type	Corrosion-resistant Stainless Steel	4 x 6	560 x 137 x 244	133 x 133 x 36
99-2128	Frame Type	Corrosion-resistant Stainless Steel	4 x 7	560 x 137 x 284	133 x 133 x 36

Cat #	Type	Material	Volume	Dimensions(mm)(DxWxH)	Storage box size(mm)
99-2132	Frame Type	Corrosion-resistant Stainless Steel	4 x 8	560 x 137 x 315	133 x 133 x 36
99-2212	Frame Type	Corrosion-resistant Stainless Steel	3 x 4	422 x 137 x 229	133 x 133 x 52
99-2215	Frame Type	Corrosion-resistant Stainless Steel	3 x 5	422 x 137 x 284	133 x 133 x 52
99-2216	Frame Type	Corrosion-resistant Stainless Steel	4 x 4	560 x 137 x 229	133 x 133 x 52
99-2220	Frame Type	Corrosion-resistant Stainless Steel	4 x 5	560 x 137 x 284	133 x 133 x 52
99-2224	Frame Type	Corrosion-resistant Stainless Steel	4 x 6	560 x 137 x 339	133 x 133 x 52
99-2230	Frame Type	Corrosion-resistant Stainless Steel	5 x 6	700 x 137 x 339	133 x 133 x 52
99-6206	Vertical Type	Corrosion-resistant Stainless Steel	1 x 6	338 x 140 x 140	133 x 133 x 52
99-6207	Vertical Type	Corrosion-resistant Stainless Steel	1 x 7	394 x 140 x 140	133 x 133 x 52
99-6208	Vertical Type	Corrosion-resistant Stainless Steel	1 x 8	450 x 140 x 140	133 x 133 x 52
99-6209	Vertical Type	Corrosion-resistant Stainless Steel	1 x 9	506 x 140 x 140	133 x 133 x 52
99-6210	Vertical Type	Corrosion-resistant Stainless Steel	1 x 10	562 x 140 x 140	133 x 133 x 52
99-6211	Vertical Type	Corrosion-resistant Stainless Steel	1 x 11	618 x 140 x 140	133 x 133 x 52
99-6212	Vertical Type	Corrosion-resistant Stainless Steel	1 x 12	674 x 140 x 140	133 x 133 x 52
99-6213	Vertical Type	Corrosion-resistant Stainless Steel	1 x 13	730 x 140 x 140	133 x 133 x 52
96-1216	Sliding Drawer	Aluminum	4 x 4	564 x 141 x 229	133 x 133 x 52
96-1220	Sliding Drawer	Aluminum	4 x 5	564 x 141 x 285	133 x 133 x 52
96-1224	Sliding Drawer	Aluminum	4 x 6	564 x 141 x 341	133 x 133 x 52
96-1124	Sliding Drawer	Aluminum	4 x 6	564 x 141 x 245	133 x 133 x 36
96-1128	Sliding Drawer	Aluminum	4 x 7	564 x 141 x 285	133 x 133 x 36
96-1132	Sliding Drawer	Aluminum	4 x 8	564 x 141 x 325	133 x 133 x 36
96-7216	Sliding Drawer	Aluminum	4 x 4	564 x 141 x 229	133 x 133 x 52
96-7220	Sliding Drawer	Aluminum	4 x 5	564 x 141 x 285	133 x 133 x 52
96-7224	Sliding Drawer	Aluminum	4 x 6	564 x 141 x 341	133 x 133 x 52
96-7124	Sliding Drawer	Aluminum	4 x 6	564 x 141 x 245	133 x 133 x 36
96-7128	Sliding Drawer	Aluminum	4 x 7	564 x 141 x 285	133 x 133 x 36
96-7132	Sliding Drawer	Aluminum	4 x 8	564 x 141 x 325	133 x 133 x 36
96-5212	Side Access Drawer	Aluminum	3 x 4	420 x 140 x 240	133 x 133 x 52
96-5215	Side Access Drawer	Aluminum	3 x 5	420 x 140 x 300	133 x 133 x 52
96-5216	Side Access Drawer	Aluminum	4 x 4	560 x 140 x 240	133 x 133 x 52
96-5220	Side Access Drawer	Aluminum	4 x 5	560 x 140 x 300	133 x 133 x 52
96-2118	Frame Type	Aluminum	3 x 6	420 x 137 x 244	133 x 133 x 36
96-2121	Frame Type	Aluminum	3 x 7	420 x 137 x 284	133 x 133 x 36
96-2120	Frame Type	Aluminum	4 x 5	560 x 137 x 204	133 x 133 x 36
96-2124	Frame Type	Aluminum	4 x 6	560 x 137 x 244	133 x 133 x 36
96-2128	Frame Type	Aluminum	4 x 7	560 x 137 x 284	133 x 133 x 36
96-2132	Frame Type	Aluminum	4 x 8	560 x 137 x 315	133 x 133 x 36
96-2212	Frame Type	Aluminum	3 x 4	422 x 137 x 229	133 x 133 x 52
96-2215	Frame Type	Aluminum	3 x 5	422 x 137 x 284	133 x 133 x 52
96-2216	Frame Type	Aluminum	4 x 4	560 x 137 x 229	133 x 133 x 52
96-2220	Frame Type	Aluminum	4 x 5	560 x 137 x 284	133 x 133 x 52
96-2224	Frame Type	Aluminum	4 x 6	560 x 137 x 339	133 x 133 x 52
96-2230	Frame Type	Aluminum	5 x 6	700 x 137 x 339	133 x 133 x 52
96-6206	Vertical Type	Aluminum	1 x 6	338 x 140 x 140	133 x 133 x 52
96-6207	Vertical Type	Aluminum	1 x 7	394 x 140 x 140	133 x 133 x 52
96-6208	Vertical Type	Aluminum	1 x 8	450 x 140 x 140	133 x 133 x 52
96-6209	Vertical Type	Aluminum	1 x 9	506 x 140 x 140	133 x 133 x 52

Cat #	Type	Material	Volume	Dimensions(mm)(DxWxH)	Storage box size(mm)
96-6210	Vertical Type	Aluminum	1 x 10	562 x 140 x 140	133 x 133 x 52
96-6211	Vertical Type	Aluminum	1 x 11	618 x 140 x 140	133 x 133 x 52
96-6212	Vertical Type	Aluminum	1 x 12	674 x 140 x 140	133 x 133 x 52
96-6213	Vertical Type	Aluminum	1 x 13	730 x 140 x 140	133 x 133 x 52

CryoKING Scanners

Cat #	Description	Type
CKS-0101	CryoKING Wired Handheld Scanner	Individual Vial
CKS-0201	CryoKING Adept	Individual Vial
CKS-1101	CryoKING Scanner	Entire Box
CKS-1102	CryoKING Maestro Laptop Scanner	Entire Box or Individual Vial

CryoKING Crown Biobank Management Software

Cat #	Type	Description
CKC-1101	CryoKING Crown Silver-- Public Cloud	Storage Space Setting, Sample Management, Approval Setting, Alarm Setting, Printing Management, Sample Date Import and Export, Sample Data Analysis.
CKC-1201	CryoKING Crown Silver-- Private Cloud / Private Server	Storage Space Setting, Sample Management, Approval Setting, Alarm Setting, Printing Management, Sample Date Import and Export, Sample Data Analysis.
CKC-1301	CryoKING Crown Silver-- Service Fee	Service in storage space setting, sample date importing and priting setting, etc.
CKC-2101	CryoKING Crown Glod-- Public Cloud	Storage Space Setting, Sample Management, Approval Setting, Alarm Setting, Printing Management, Sample Date Import and Export, Sample Data Analysis, Quality Control Management, Follow-up Management, HIS/LIS Docking, Temperature Control Management, and other customs demand setting.
CKC-2201	CryoKING Crown Gold -- Private Cloud / Private Server	Storage Space Setting, Sample Management, Approval Setting, Alarm Setting, Printing Management, Sample Date Import and Export, Sample Data Analysis, Quality Control Management, Follow-up Management, HIS/LIS Docking, Temperature Control Management, and other customs demand setting.

Ultra Low Temperature Freezers

Cat #	Capacity (L)	Input Power (W)	Temperature	External Size (WxDxH mm)	Internal Size (WxDxH mm)	Weight (N.t)
CKF-UW138	138	1050	-10~-86°C	1320x890x1009	490x470x570	215
CKF-UW328	328	1050	-10~-86°C	2005x1035x1120	1140x410x552	260
CKF-UW438	438	1050	-10~-86°C	2005x890x1009	1270x540x590	258
CKF-UL668	668	1950	-10~-86°C	2033x1190x1037	1200x815x610	390
CKF-UL100	100	1000	-10~-86°C	1066x742x820	450x439x514	120
CKF-UL290	290	1050	-10~-86°C	755x846x1797	470x588x1047	227
CKF-UL340	340	1050	-10~-86°C	755x846x1982	470x578x1250	300
CKF-UL508	508	2000	-10~-86°C	1200x897x1999	Up: 880x504x570 Down: 880x504x514	375
CKF-UL538	538	2000	-10~-86°C	842x989x2023	662x600x1344	320
CKF-UL540	540	1950	-10~-86°C	840x918x1984	695x625x1330	330
CKF-UL398	398	1000	-10~-86°C	785x1041x1947	440x696x1266	252
CKF-UL528	528	1050	-10~-86°C	930x1041x1947	585x696x1266	283
CKF-UL678	678	1550	-10~-86°C	1090x998x1968	750x696x1268	380
CKF-UL778	778	1550	-10~-86°C	1205x998x1968	865x696x1268	390
CKF-UL858	858	1550	-10~-86°C	1218x997x1998	877x696x1378	440
CKF-UL1008	1008	1950	-10~-86°C	1363x997x1998	1022x696x1378	480
CKF-UL828	828	1900	-10~-86°C	996x1230x1997	930x710x1308	420
CKF-UW258	258	9500	-10~-86°C	2251x1034x1117	1140x410x552	330

Liquid Nitrogen Containers

Cat#	CKD-V035S013	CKD-V055S013	CKD-V130S013						
Unit parameter									
Liquid nitrogen capacity under the tray (L)	55	80	265						
Liquid Nitrogen Capacity (L)	350	587	1340						
Neck diameter (mm)	326	445	635						
Inner usable height (mm)	600	600	620						
Outer diameter (mm)	875	1104	1565						
Height (mm)	1326	1321	1398						
Empty weight (kg)	219	328	851						
Operation height (mm)	1263	1266	997						
Full Weight (kg)	502	802	1934						
Door width ≥ (mm)	895	1124	1585						
Max. storage capacity									
1.2ml,1.8ml,2ml internal thread cryogenic vials	13000	26000	58500						
Racks with 5x5 boxes	4	8	18						
Racks with 10x10 boxes	12	24	54						
5x5 boxes	40	80	180						
10x10 boxes	120	240	540						
Boxes per rack	10	10	10						
Max. straw holding capacity									
0.5ml straw	111312	203040	480168						
0.25ml straw	254592	468544	1101000						
Ø76 racks	52	112	234						
Ø63 racks	8	0	42						
Ø38 racks	28	24	54						
Rack layers	4	4	4						
Layer height	135	135	135						
Max. blood bag holding capacity									
Blood bag types	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames
25ml (91-5025)	1296	6	216	2376	6	396	4716	6	786
50ml (91-5050)	792	6	132	1416	6	236	2916	6	486
200ml (91-5200)	168	3	56	336	3	112	666	3	222
250ml (91-5250)	300	3	100	552	3	184	1170	3	390
500ml (91-5500)	192	3	64	408	3	136	828	3	276
700ml (91-5700)	96	3	32	204	3	68	396	3	132

Cat#	CKD-V045S013	CKD-V075S013	CKD-V085S013	CKD-V160S013								
Unit parameter												
Liquid nitrogen capacity under the pallet (L)	55	80	135	300								
Liquid nitrogen capacity (L)	460	783	890	1660								
Neck diameter (mm)	326	445	465	635								
Inner usable height (mm)	828	828	773	791								
Outer diameter (mm)	875	1104	1190	1565								
Height (mm)	1558	1591	1559	1589								
Empty weight (kg)	277	372	441	914								
Operation height (mm)	1212	1216	980	967								
Full Weight (kg)	649	1005	1160	2255								
Door width ≥ (mm)	895	1124	1210	1585								
Max. storage capacity												
1.2ml,1.8ml,2ml internal thread cryogenic vials	18200	36400	42900	76050								
Racks with 5x5 boxes	4	8	4	18								
Racks with 10x10 boxes	12	24	32	54								
5x5 boxes	56	112	52	234								
10x10 boxes	168	336	416	702								
Boxes per rack	14	14	13	13								
Max. straw holding capacity												
0.5ml straw	131220	253800	304920	600210								
0.25ml straw	301120	585680	699360	1376250								
Ø76 racks	52	112	120	234								
Ø63 racks	8	0	16	42								
Ø38 racks	12	24	40	54								
Rack layers	5	5	5	5								
Layer height	135	135	135	135								
Max. blood bag holding capacity												
Blood bag types	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames
25ml (91-5025)	1728	6	216	3168	8	396	3360	7	480	5502	7	786
50ml (91-5050)	1056	6	132	1888	8	236	2072	7	296	3402	7	486
200ml (91-5200)	280	3	56	560	5	112	544	4	136	888	4	222
250ml (91-5250)	500	3	100	920	5	184	944	4	236	1560	4	390
500ml (91-5500)	320	3	64	680	5	136	640	4	160	1104	4	276
700ml (91-5700)	128	3	32	272	4	68	320	4	80	528	4	132

Cat#	CKD-V100S013			CKD-V180S013			CKD-V180S014		
Unit parameter									
Liquid nitrogen capacity under the tray (L)	135			320			320		
Liquid nitrogen capacity (L)	1014			1880			1880		
Neck diameter (mm)	465			635			635		
Inner usable height (mm)	900			900			900		
Outer diameter (mm)	1190			1565			1565		
Height (mm)	1704			1883			1883		
Empty weight (kg)	495			985			985		
Operation height (mm)	950			1097			1097		
Full weight (kg)	1314			2504			2504		
Door width ≥ (mm)	1210			1585			1585		
Max. storage capacity									
1.2ml,1.8ml,2ml internal thread cryogenic vials	49500			87750			94875		
Racks with 5x5 boxes	4			18			13		
Racks with 10x10 boxes	32			54			60		
5x5 boxes	60			270			195		
10x10 boxes	480			810			900		
Boxes per rack	15			15			15		
Max. straw holding capacity									
0.5ml straw	365904			720252			671166		
0.25ml straw	839232			1651500			1543884		
Ø76 racks	120			234			232		
Ø63 racks	16			42			24		
Ø38 racks	40			54			39		
Rack layers	6			6			6		
Layer height	135			135			135		
Max. blood bag holding capacity									
Blood bag types	Total Bags	Bags/Frame	No. Frames	Total Bags	Bags/Frame	No. Frames	Total Bags	Bags/Frame	No. Frames
25ml (91-5025)	4320	9	480	7074	9	786	7758	9	862
50ml (91-5050)	26564	9	296	4374	9	486	4905	9	545
200ml (91-5200)	680	5	136	1110	5	222	1290	5	258
250ml (91-5250)	1180	5	236	1950	5	390	2095	5	419
500ml (91-5500)	800	5	160	1380	5	276	1520	5	304
700ml (91-5700)	400	5	80	660	5	132	775	5	155

Cat#	CKD-V190S014			CKD-V200S014			CKD-V210S014			CKD-V220S014		
Unit parameter												
Liquid nitrogen capacity under the tray (L)	262			262			262			262		
Liquid nitrogen capacity (L)	1946			2041			2156			2270		
Neck diameter (mm)	635			635			635			635		
Inner usable height (mm)	830			880			940			1000		
Outer diameter (mm)	1685			1685			1685			1685		
Height (mm)	1509			1559			1619			1679		
Empty weight (kg)	860			880			900			920		
Operation height (mm)	950			1000			1060			1120		
Full weight (kg)	2432			2529			2642			2754		
Door width ≥ (mm)	1705			1705			1705			1705		
Max. storage capacity												
1.2ml,1.8ml,2ml internal thread cryogenic vials	105700			113250			120800			128350		
Racks with 5x5 boxes	14			14			14			14		
Racks with 10x10 boxes	72			72			72			72		
5x5 boxes	196			210			224			238		
10x10 boxes	1008			1080			1152			1224		
Boxes per rack	14			15			16			17		
Max. straw holding capacity												
0.5ml straw	656820			788184			788184			919548		
0.25ml straw	1513640			1816368			1816368			2119096		
Ø76 racks	282			282			282			282		
Ø63 racks	16			16			16			16		
Ø38 racks	44			44			44			44		
Rack layers	5			6			6			7		
Layer height	135			135			135			135		
Max. blood bag holding capacity												
Blood bag types	Total Bags	Bags/Frame	No. Frames	Total Bags	Bags/Frame	No. Frames	Total Bags	Bags/Frame	No. Frames	Total Bags	Bags/Frame	No. Frames
25ml (91-5025)	8432	8	1054	8432	8	1054	9486	9	1054	10540	10	1054
50ml (91-5050)	5232	8	654	5232	8	654	5886	9	654	6540	10	654
200ml (91-5200)	1510	5	302	1510	5	302	1510	5	302	1812	6	302
250ml (91-5250)	2550	5	510	2550	5	510	2550	5	510	3060	6	510
500ml (91-5500)	1800	5	360	1800	5	360	1800	5	360	2160	6	360
700ml (91-5700)	930	5	186	930	5	186	930	5	186	930	5	186



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