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Av. Franklin D. Roosevelt 5828  
(C1431BZV) - Buenos Aires  
email: [lobov@lobov.com.ar](mailto:lobov@lobov.com.ar)  
web: [www.lobov.com.ar](http://www.lobov.com.ar)

Tel: (54 11) 4574-3500

Biologix Corporation  
No.2766 Ying Xiu Road  
High-Tech Industrial Development Zone  
Jinan, Shandong 250101  
P.R. China

[Inquiry@BiologixGroup.com](mailto:Inquiry@BiologixGroup.com)  
[Support@CryoKING.com](mailto:Support@CryoKING.com)

 CRYO KING by BIOLOGIX

**CryoKING Low Temperature Storage System**

[www.BiologixGroup.com](http://www.BiologixGroup.com) [www.CryoKING.com](http://www.CryoKING.com)

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**BIOLOGIX**

Introduction



Biologix Group Limited is specialized in the research, production, and sales of high-quality laboratory supplies and instruments, and concentrated to the complete biobanking solutions. The class 100,000 cleanroom is in compliance with GMP standards. Biologix most products manufactured in our FDA and ISO certified facilities are certified sterile, DNase and RNase free and non-pyrogenic using the highest quality medical-grade plastic materials. Biologix strives to offer high quality and competitive products for customers, and the products and services can be customized according to various demands. Biologix has developed a focus on meticulous control and constant improvement and innovation, as well as standards of excellence in our industry. We are proud to serve thousands of laboratories, as well as hundreds of distributors, all around the world.

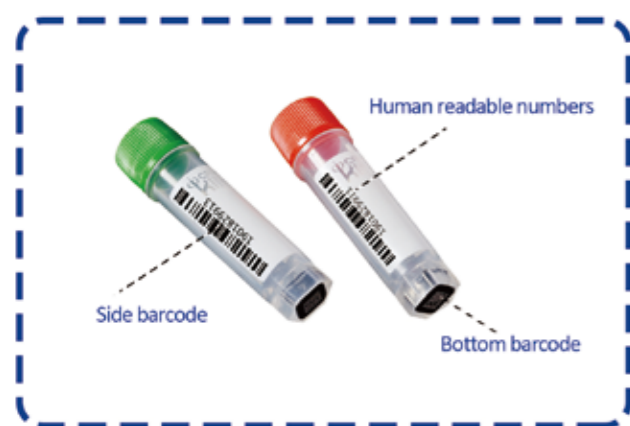
CryoKING is a cold chain and biobanking brand by Biologix. CryoKING products focus and concentrate on standardization, formalization and digitalization of biobank. Its advantage is based on upstream industry, research and market integration, covering the downstream industry to offer complete and one-stop 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.



CRYOKING COMPLETE BIOBANKING PRODUCTS

# Multi-coded Cryogenic Vials

Each multi-coded cryogenic vial has the bottom 2D barcode, side 1D barcode and human-readable numbers to enable unity and uniqueness of codes on one vial. Multi codes can be read by various scanners and can effectively lower the risks of information loss. Multi-coded cryogenic vials enable the storage security and enhance biobanking management.



Multi-coded Cryogenic Vials



Scanner 3.0

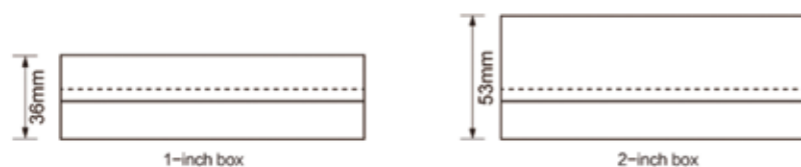


Scanner for Individual Vials

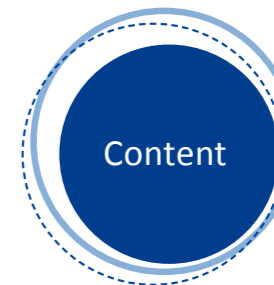
## ONE-INCH REVOLUTION



CryoKING One-Inch Revolution doubles your sample storage with half of the space and cost. 34032 extra samples can be stored per freezer.



In the same storage space, 100-welled cryogenic boxes (10×10) can store 23% more samples compared with 81-welled cryogenic boxes (9×9).



## CryoKING Low Temperature Storage System-Liquid Nitrogen Tanks

- Biobank Series 01-07
- **Laboratory Series 08-10**
- Portable Storage Series 11
- **Static Storage Series 12-14**
- Special Transport Series 15-16
- **Air Transport Series 17-18**
- Liquid Nitrogen Filling Series 19-20
- **Cryogenic Vial Canes 21**
- Accessories 22



### Introduction:

Biobank Series provide users with automatic, secure and reliable cryogenic liquid nitrogen freezing systems. Tanks are made of high quality stainless steel, equipped with casters and brakes, and wide neck opening for easy to pick and place specimen.

Specimen could be stored in liquid or vapor, and control system provides high convenience and security. To achieve the most economical operation, our design ensures the lowest consumption of liquid nitrogen and the maximum storage capacity of the specimen. Biobank Series uses advanced evacuation technology, adiabatic technology and high vacuum retention technology to ensure the safe storage of specimen, good uniform temperature and the lowest liquid nitrogen consumption. When specimen in vapor storage, the entire storage area temperature differences do not exceed 10 °C, and the top of the frozen rack lowest temperature can reach -190 °C. Biobank Series provides you with the best storage experience: fast specimen access, reliable protection, convenient liquid nitrogen auto filling and flexible storage capacity.

### ✓ Features:

- ◆ Compatible with vapor and liquid storage modes
- ◆ Various capacity optional to meet your storage requirements
- ◆ More specimen capacity in a limited space to reduce the storage costs
- ◆ Excellent temperature uniformity and stability
- ◆ Excellent temperature stability after opening lid
- ◆ Can be equipped with advanced temperature monitoring system, liquid level monitoring system, alarming system and remote monitor
- ◆ Can be equipped with automatic liquid nitrogen filling system
- ◆ Controlling system can permanently store operating data
- ◆ One button to demist, easy to search, pick and place specimen
- ◆ User-friendly design, comfortable operation
- ◆ Lockable lid, fully guarantee the safety of the specimen
- ◆ Equipped with folding steps and work bench
- ◆ CE certified

### 👑 Characteristics:



#### Big storage capacity

Compared with similar products, our products need less space and could store more samples; save space and also reduce the cost;



#### Excellent temperature uniformity

Vacuum insulated stainless steel structure, high vacuum coverage to ensure excellent insulation properties;



#### Stable open cover temperature

Innovative lid and excellent small neck openings design can greatly reduce the liquid nitrogen evaporation rate. Even keep the lid open for a long time, the temperature inside the tank can still be very stable; temperature could be not higher than -150 °C with in 48 hours;



#### Advanced temperature monitoring system (CKN-SU2700)

Microprocessor-based control system and the vertical double platinum resistance temperature probe can display realtime temperature, accuracy of ±1 °C. The user can set their own alarm temperature value, with alarm mute option;



#### Automatic filling liquid nitrogen and liquid level monitoring system (CKN-SU2700)

Based on the differential pressure sensor, level monitoring system could display real-time liquid level, to ensure that the liquid nitrogen automatic filling process safe and reliable. 10-inch LCD touch screen display: temperature of the top, bottom temperature, liquid level, and operating status etc.



#### Hot gas bypass

The hot gas bypass can remove nitrogen which is at indoor temperature before the liquid nitrogen is filled, to ensure that only liquid nitrogen is filled into the tank and avoid temperature fluctuations in the liquid nitrogen tank during the filling process. It would make sure the safety of the sample and also reduce the additional Liquid nitrogen consumption.



#### A number of human design

Stainless steel auxiliary table, can be used for temporary placement for the racks to speed up the sample picking and placing; folding steps reduce the height of the operation platform; spare opening on the internal tray for easy to find inadvertently dropped samples.



✓ Features:

- ◆ Automatic liquid nitrogen filling
- ◆ Platinum resistance temperature sensor
- ◆ Differential pressure level sensor
- ◆ Hot air bypass function
- ◆ Automatically record the liquid level, temperature and other data
- ◆ Local monitoring center
- ◆ Cloud monitoring and management center
- ◆ A variety of alarm self-diagnosis
- ◆ Operation permission settings
- ◆ Run / alarm parameter settings
- ◆ Sound and light abnormal alarm to remind
- ◆ Backup power supply and UPS power supply




⚙️ Racks Layout

	CKD- V035S013 CKD- V045S013	CKD- V055S013 CKD- V075S013	CKD- V085S013 CKD- V100S013	CKD- V130S013 CKD- V160S013 CKD- V180S013	CKD-V180S014
Vertical type racks					
Canisters (0.25ml, 0.5ml)					
50ml blood bags					

 Order Information-Parameter List

Cat#	CKD-V035S013			CKD-V045S013			CKD-V055S013		
Unit parameter									
LN2 capacity under platform vapor storage (L)	55			55			80		
LN2 capacity(L)	350			460			587		
Neck opening (mm)	326			326			445		
Usable internal height(mm)	600			828			600		
Outer diameter (mm)	875			875			1104		
Overall height(mm)	1326			1558			1321		
Empty weight (kg)	219			277			328		
Weight liquid full (mm)	1263			1212			1266		
Door width requirement (kg)	502			649			802		
Door width ≥ (mm)	895			895			1124		
Max. storage capacity									
1.2ml,1.8ml,2ml internal thread cryogenic vials	13000			18200			26000		
Racks with 5×5 boxes	4			4			8		
Racks with 10×10 boxes	12			12			24		
5×5 boxes	40			56			80		
10×10 boxes	120			168			240		
Boxes per rack	10			14			10		
Max. straw holding capacity									
0.5ml straw	111312			131220			203040		
0.25ml straw	254592			301120			468544		
Ø76 racks	52			52			112		
Ø63 racks	8			8			0		
Ø38 racks	28			12			24		
Rack layers	4			5			4		
Rack height	135			135			135		
Maximum blood bag capacity									
Blood Bag Type	Total Bags	Bags/Frame	No.Frames	Total Bags	Bags/Frame	No.Frames	Total Bags	Bags/Frame	No.Frames
25ml(791 OS/U)	1296	6	216	1728	8	216	2376	6	396
50ml(4R9951)	792	6	132	1056	8	132	1416	6	236
200ml(DF-200)	168	3	56	280	5	56	336	3	112
250ml(4R9953)	300	3	100	500	5	100	552	3	184
500ml(4R9955)	192	3	64	320	5	64	408	3	136
700ml(DF-700)	96	3	32	128	4	32	204	3	68

 Order Information-Parameter List


Cat#	CKD-V075S013			CKD-V085S013			CKD-V100S013		
Unit parameter									
LN2 capacity under platform vapor storage (L)	80			135			135		
LN2 capacity (L)	783			890			1014		
Neck opening (mm)	445			773			465		
Usable internal height (mm)	828			1190			900		
Outer diameter (mm)	1104			1559			1190		
Overall height (mm)	1591			1558			1827		
Empty weight (kg)	372			441			495		
Weight liquid full (mm)	1216			980			950		
Door width requirement (kg)	1005			1160			1314		
Door width ≥ (mm)	1124			1210			1210		
Max. storage capacity									
1.2ml,1.8ml,2ml internal thread cryogenic vials	36400			42900			49500		
Racks with 5×5 boxes	8			4			4		
Racks with 10×10 boxes	24			32			32		
5×5 boxes	112			52			60		
10×10 boxes	336			416			480		
Boxes per rack	14			13			15		
Max. straw holding capacity									
0.5ml straw	253800			304920			365904		
0.25ml straw	585680			699360			839232		
Ø76 racks	112			120			120		
Ø63 racks	0			16			16		
Ø38 racks	24			40			40		
Rack layers	5			5			6		
Rack height	135			135			135		
Maximum blood bag capacity									
Blood Bag Type	Total Bags	Bags/Frame	No.Frames	Total Bags	Bags/Frame	No.Frames	Total Bags	Bags/Frame	No.Frames
25ml(791 OS/U)	3168	8	396	3360	7	480	4320	9	480
50ml(4R9951)	1888	8	236	2072	7	296	2664	9	296
200ml(DF-200)	560	5	112	544	4	136	680	5	136
250ml(4R9953)	920	5	184	944	4	236	1180	5	236
500ml(4R9955)	680	5	136	640	4	160	800	5	160
700ml(DF-700)	272	4	68	320	4	80	400	5	80

 Order Information-Parameter List

Cat#	CKD-V130S013	CKD-V160S013	CKD-V180S014	CKD-V180S013								
Unit parameter												
LN2 capacity under platform vapor storage(L)	265	300	320	320								
LN2 capacity(L)	1340	1660	1880	1880								
Neck opening (mm)	635	635	635	635								
Usable internal height (mm)	620	791	900	900								
Outer diameter (mm)	1565	1565	1565	1565								
Overall height (mm)	1398	1589	1883	1883								
Empty weight (kg)	851	914	985	985								
Weight liquid full (mm)	997	967	1097	1097								
Door width requirement(kg)	1934	2255	2504	2504								
Door width ≥ (mm)	1585	1585	1585	1585								
Max. storage capacity												
1.2ml,1.8ml,2ml internal thread cryogenic vials	63250	82225	87750	94875								
Racks with 5×5 boxes	13	13	18	13								
Racks with 10×10 boxes	60	60	54	60								
5×5 boxes	130	169	270	195								
10×10 boxes	600	780	810	900								
Boxes per rack	10	13	15	15								
Max. straw holding capacity												
0.5ml straw	447444	559305	720252	671166								
0.25ml straw	1029256	1286570	1651500	1543884								
Ø76 racks	232	232	234	232								
Ø63 racks	24	24	42	24								
Ø38 racks	39	39	54	39								
Rack layers	4	4	6	6								
Rack height	135	135	135	135								
Max. straw holding capacity												
Blood Bag Type	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(791 OS/U)	5172	6	862	6034	7	862	7074	9	786	7758	9	862
50ml(4R9951)	3270	6	545	3815	7	545	4374	9	486	4905	9	545
200ml(DF-200)	774	3	258	1032	4	258	1110	5	222	1290	5	258
250ml(4R9953)	1257	3	419	1676	4	419	1950	5	390	2095	5	419
500ml(4R9955)	912	3	304	1216	4	304	1380	5	276	1520	5	304
700ml(DF-700)	465	3	155	620	4	155	660	5	132	775	5	155



The laboratory series have advantages of low liquid nitrogen consumption and medium storage capacity. It has the advantages of small space requirement and efficient storage of large capacity samples, which can meet the different needs .

 Features :

- ◆ Durable aluminum structure;
- ◆ Equipped with racks and vial boxes;
- ◆ Large capacity, low liquid nitrogen consumption;
- ◆ Lockable lid is optional, to keep the safety of samples;
- ◆ Temperature monitoring system (CKN-ZT1001) is optional;
- ◆ Carrying cart is optional;
- ◆ CE certified;
- ◆ Five years vacuum warranty;



\*Temperature monitoring system is optional for real time temperature monitoring and along with sound and light alarm. When the temperature is high, there would be sound and alarm to remind.

 Order Information-Parameter List

Cat#		CKS-L010Q125	CKS-L030Q125	CKS-L035Q125	CKS-L047W127	CKS-L065Q216
Unit parameter						
LN2 capacity(L)		10	31.5	35.5	47	65
Neck opening(mm)		125	125	125	127	216
Static evaporation Rate(L/Day)		0.42	0.35	0.36	0.36	0.78
Static holding time (Day)		24	90	97	130	83
Storage capacity						
Racks and vial boxes	Number of racks (ea)	1	6	6	6	6
	Dimension of racks (mm)	82x84	82x84	82x84	105x100	142x144
	Dimension of boxes (mm)	76x76	76x76	76x76	76x76	134x134
	Number of layers per rack (ea)	4	4	5	5	4
	Number of vials (ea)	100	600	750	750	2400
Containers						
Height (mm)		554	704	748	718	765
Outer diameter (mm)		300	462	462	508	681
Empty weight (kg)		5.9	13	14.6	18.2	38.3
Accessories Included						
Lockable lid		√	√	√	√	√
Protective PU bag		√	√	√	—	—
Optional accessories						
Intelligent monitor		√	√	√	√	√
Carrying cart		—	√	√	√	√

\*CKS-L047W127: Empty tank only. Racks and boxes need to be ordered separately

 Order Information-Parameter List

Cat#		CKS-L095Q216	CKS-L115Q216	CKS-L175Q216
Unit parameter				
LN2 capacity(L)		95	115	175
Neck opening(mm)		216	216	216
Static evaporation Rate (L/Day)		0.97	0.94	0.95
Static holding time (Day)		98	122	184
Storage capacity				
Racks and vial boxes	Number of racks (ea)	6	6	6
	Dimension of racks (mm)	142x144	142x144	142x144
	Dimension of boxes (mm)	134x134	134x134	134x134
	Number of layers per rack (ea)	5	6	10
	Number of vials (ea)	3000	3600	6000
Containers				
Height (mm)		774	846	1060
Outer diameter (mm)		681	681	681
Empty weight (kg)		41.3	42.3	53.8
Accessories Included				
Lockable lid		√	√	√
Protective PU bag		—	—	—
Optional accessories				
Intelligent monitor		√	√	√
Carrying cart		√	√	√





The portable series is an economical and practical small liquid nitrogen tank designed specifically for biological samples that require frequent moving. Small size, light weight, high-strength light weight aluminum alloy and multi-layer insulation to make sure the safety, light weight and efficient, and it has a variety of accessories optional.

✓ Features:

- ◆ High strength, light weight, small size aluminum structure
- ◆ Ultra-low evaporation loss
- ◆ Number coding for canister place
- ◆ Lockable lid is optional to prevent unauthorized open
- ◆ CE certified
- ◆ Five years vacuum warranty



Static storage series are economic small liquid nitrogen tanks, specifically designed for long-term static storage of biological samples. It has large capacity and long storage time two types. This series is made of high strength and light weight aluminum alloy, containing multi-layer insulation to make the product safe, lightweight and efficient, and it has a variety of accessories optional.

✓ Features:

- ◆ High strength, light weight and small size aluminum structure
- ◆ Ultra low evaporation loss
- ◆ Large straw capacity
- ◆ Vials tube is optional
- ◆ Lockable lid is optional to prevent unauthorized open
- ◆ Temperature monitoring system (CKN-ZT1001) is optional
- ◆ Carrying cart is optional
- ◆ Liquid nitrogen pump is optional
- ◆ CE certified
- ◆ Five years vacuum warranty



Order Information-Parameter List

Cat#	CKS-P302Z030	CKS-P302Z035	CKS-P603Z050	CKS-P606Z050	CKS-P610Z050
Unit Parameter					
LN2 capacity (L)	2	2	3	6	10
Neck opening (mm)	30	35	50	50	50
Static evaporation rate(L/Day)	0.07	0.08	0.12	0.12	0.12
Static holding time (Day)	28	24	26	52	86
Storage capacity					
Canister outer diameter (mm)	19	25	38	38	38
Canister height(mm)	120	120	120	120	120
Number of canisters (ea)	3	3	6	6	6
Straw holding capacity (singlelayer)	0.5ml (ea)	90	165	792	792
	0.25ml (ea)	204	330	1788	1788
Straw holding capacity (double layers)	0.5ml (ea)	—	—	—	—
	0.25m (ea)	—	—	—	—
Containers					
Height(mm)	399	428	435	482	552
Outer diameter(mm)	223	204	223	300	300
Empty weight(kg)	2.8	2.6	3.1	4.8	6.1
Accessories Included					
Lockable lid	√	√	√	√	√
Protective PU bag	√	√	√	√	√

 Order Information-Parameter List

Cat#	CKS-S610Z080	CKS-S613T050	CKS-S615Z050	CKS-S620Z050	CKS-S625T050	CKS-S630T050
Unit Parameter						
LN2 capacity (L)	10	13	15	20	25	31.5
Neck opening (mm)	80	50	50	50	50	50
Static evaporation rate(L/Day)	0.21	0.12	0.11	0.12	0.14	0.12
Static holding time (Day)	48	109	134	168	180	254
Storage capacity						
Canister outer diameter (mm)	63	38	38	38	38	38
Canister height(mm)	120	276	120	120	276	276
Number of canisters (ea)	6	6	6	6	6	6
Straw holding capacity (single layer)	0.5ml (ea)	2244	—	792	792	—
	0.25ml (ea)	5022	—	1788	1788	—
Straw holding capacity (double layers)	0.5ml (ea)	—	1284	—	—	1284
	0.25m (ea)	—	2832	—	—	2832
Containers						
Height(mm)	557	623	591	672	700	705
Outer diameter(mm)	300	310	394	394	394	462
Empty weight(kg)	6.2	6.3	8.5	9.5	10.7	12.9
Accessories Included						
Lockable lid	√	√	√	√	√	√
Protective PU bag	√	√	√	√	√	√
Optional accessories						
Intelligent monitor	√	√	√	√	√	√
Carrying cart	—	—	—	—	—	√

 Order Information-Parameter List

Cat#	CKS-S630T080	CKS-S630Z125	CKS-S635T050	CKS-S635T080	CKS-S635T125	CKS-S947T127
Unit Parameter						
LN2 capacity (L)	31.5	31.5	35.5	35.5	35.5	47
Neck opening (mm)	80	125	50	80	125	127
Static evaporation rate(L/Day)	0.21	0.35	0.12	0.22	0.37	0.36
Static holding time (Day)	147	90	286	159	97	130
Storage capacity						
Canister outer diameter (mm)	63	97	38	63	97	72
Canister height(mm)	276	120	276	276	276	276
Number of canisters (ea)	6	6	6	6	6	10
Straw holding capacity (single layer)	0.5ml (ea)	—	5124	—	—	—
	0.25ml (ea)	—	11952	—	—	—
Straw holding capacity (double layers)	0.5ml (ea)	3624	—	1284	3624	9048
	0.25m (ea)	8460	—	2832	8460	20760
Containers						
Height(mm)	705	705	750	754	748	718
Outer diameter(mm)	462	462	462	462	462	508
Empty weight(kg)	13	12.9	14.2	14.5	14.6	18.2
Accessories Included						
Lockable lid	√	√	√	√	√	√
Protective PU bag	√	√	√	√	√	—
Optional accessories						
Intelligent monitor	√	√	√	√	√	√
Carrying cart	√	√	√	√	√	√



The transport storage series are economical small liquid nitrogen tanks designed specifically for biological samples static storage and for transporting biological samples. This series is made of high strength and lightweight aluminum alloy, containing multi-layer insulation to make the product safe, lightweight and efficient, and it has a variety of accessories optional.

**✓ Features :**

- ◆ High strength, light weight and small size aluminum structure
- ◆ Ultra low evaporation loss
- ◆ Large straw capacity
- ◆ Canes are optional
- ◆ Lockable lid is optional to prevent unauthorized open
- ◆ Temperature monitoring system (CKN-ZT1001) is optional
- ◆ Carrying cart is optional
- ◆ Liquid nitrogen pump is optional
- ◆ CE certified
- ◆ Five years vacuum warranty

**📄 Order Information-Parameter List**

Cat#	CKS-T620Z050	CKS-T630Z050	CKS-T635Z050	CKS-T335R080	CKS-T650Z050
<b>Unit Parameter</b>					
LN2 capacity (L)	20	31.5	35.5	35.5	50
Neck opening(mm)	50	50	50	80	50
Static evaporation rate (L/Day)	0.20	0.20	0.20	0.30	0.24
Static holding time (Day)	101	159	179	119	213
<b>Storage capacity</b>					
Canister outer diameter (mm)	38	38	38	63	38
Canister height (mm)	120	120	120	120	120
Canisters(ea)	6	6	6	6	6
Straw holding capacity (single layer)	0.5ml (ea)	792	792	2244	792
	0.25ml (ea)	1788	1788	5022	1788
<b>Containers</b>					
Height(mm)	672	705	749	753	810
Outer diameter(mm)	394	462	462	462	462
Empty weight(kg)	9.5	12.9	14.2	14.5	17.4
<b>Accessories Included</b>					
Lockable lid	√	√	√	√	√
Protective PU Bag	√	√	√	√	√
<b>Optional accessories</b>					
Intelligent monitor	√	√	√	√	√
Carrying cart	—	√	√	√	√

\*Double-layer canister need to be ordered separately. CKS-T335R080 doesn't include canisters.



Air transport series is suitable for cryogenic environment (vapor storage at temperatures below -190 °C) transportation for samples. It could avoid the risk of the liquid nitrogen releasing during transportation, especially designed for short-term air transport. The internal liquid nitrogen adsorbent can absorb and save liquid nitrogen, even if the container falls down, liquid nitrogen would not pour out. It uses special stainless steel mesh to separate storage space and adsorbent material, to avoid liquid nitrogen absorption material mixed into the sample. Mainly used for laboratory users and short-term delivery of small number samples.

**✓ Features:**

- ◆ Vapor cryogenic storage;
- ◆ Fast liquid nitrogen filling;
- ◆ High strength aluminum construction;
- ◆ Lockable lid;
- ◆ No liquid nitrogen overflow;
- ◆ Straws or vials storage is optional;
- ◆ CE certified;
- ◆ Three years vacuum warranty.



CKS-A108Z080

**Order Information-Parameter List**

Cat#	CKS-A103Z050	CKS-A106Z080	CKS-A108Z080	CKS-A110T125	CKS-A110Q125	CKS-A125Q216	
<b>Unit Parameter</b>							
LN2 capacity (L)	1.3	2.9	3	3.4	3.4	9	
Neck opening (mm)	50	80	80	125	125	216	
Static evaporation rate(L/Day)	0.16	0.20	0.22	0.43	0.43	0.84	
Static holding time (Day)	8	14	14	8	8	11	
<b>Storage capacity</b>							
Canisters	Canister outer diameter (mm)	38	63	63	97	—	—
	Canister height(mm)	120	120	120	276	—	—
	Canisters (ea)	1	1	1	1	—	—
	Straw holding capacity (single layer)	0.5ml(ea)	132	374	820	854	—
0.25ml(ea)		298	837	1780	1940	—	—
Racks and vial boxes	Racks (ea)	—	—	—	—	1	1
	Box size (ea)	—	—	—	—	76×76	134×134
	Layers per racks (ea)	—	—	—	—	4	5
	Vials(ea)	—	—	—	—	100	500
25ml	Racks(ea)	—	—	—	—	1	1
	Layers of racks(ea)	—	—	—	—	2	3
	Boxes per rack(ea)	—	—	—	—	3	15
	Blood bags(ea)	—	—	—	—	6	45
50ml	Racks (ea)	—	—	—	—	1	1
	Layers of racks (ea)	—	—	—	—	1	2
	Boxes per rack(ea)	—	—	—	—	3	15
	Blood bags (ea)	—	—	—	—	3	30
<b>Containers</b>							
Height (mm)	428	487	509	554	554	716	
Outer diameter (mm)	223	300	300	300	300	394	
Empty weight (kg)	3.2	4.9	6.2	6.7	6.7	15	
<b>Accessories Included</b>							
Lockable lid	√	√	√	√	√	√	
Protective PU bag	√	√	√	√	√	√	



**Advantages:**

- ◆ Level display is optional;
- ◆ Regulator is optional for stable pressure;
- ◆ Solenoid valve is optional;
- ◆ Automatic filling system is optional.

Liquid nitrogen filling series is mainly used for liquid nitrogen storage. It uses small amount of liquid nitrogen vaporizing to increase the pressure inside the tank, so that the tank can automatically discharge liquid nitrogen to other containers. The stainless steel structure design is suitable for most environment and reduces the rate of evaporation losses. All the models are equipped with pressure building valve, liquid valve, release valve and pressure gauge; and models over 200 liters are also equipped with bursting disc and muffler. All the models are equipped with 4 rollers at the bottom for easy to move. Mainly applicable to laboratory users and chemical users for liquid nitrogen storage and liquid nitrogen automatic supply.

**Features:**

- ◆ Unique neck design, low evaporation loss rate;
- ◆ A protective operating ring;
- ◆ Safe structure;
- ◆ Stainless steel tank;
- ◆ With carrying cart for easy to move;
- ◆ CE certified;
- ◆ Five years vacuum warranty.



**Order Information-Parameter List**

Cat#	CKD-Z030K040	CKD-Z050K040	CKD-Z100K040	CKD-Z200K040	CKD-Z300K040	CKD-Z500K040
Unit Parameter						
Effective capacity (L)	30	50	100	200	300	500
Neck diameter (mm)	40	40	40	40	40	40
Daily evaporation loss rate (%)	★ 2.5	2	1.3	1.2	1.1	1.1
Liquid velocity (L/min)	—	—	—	—	—	—
Liquid nitrogen filling tank						
Height (mm)	879	991	1185	1265	1459	1576
Outer diameter (mm)	454	506	606	758	857	1008
Weight empty (kg)	32	54	75	130	202	255
Standard working pressure (Mpa)	0.05		0.05			
Maximum working pressure (Mpa)	0.09		0.09			
Setting pressure of the first safety valve (Mpa)	0.099		0.099			
Setting pressure of the second safety valve (Mpa)	0.15		0.15			
Pressure gauge indication range (Mpa)	0~0.25		0~0.25			

★ The above static evaporation loss and static holding time are all based on theoretical values. Actual results are influenced by the operation, atmospheric conditions and manufacture tolerance

**Accessories**

General Series	A Series	E Series	K Series
Standard			
Single layer infusion hose {ZG-DN10/1.5}	Single layer infusion hose {ZG-DN10/1.5}	Single layer infusion hose {ZG-DN10/1.5} Digital liquid level meter {DLZ-100} No data remote transmission function	Single layer infusion hose {ZG-DN10/1.5} Digital display liquid level meter and voltage regulator {DLZ-300} Can be used in auto-filling system
Option			
Float level gauge	Float level gauge		

Cryogenic vial canes



Rack with vial boxes



Plug



Lockable lid

 Order Information-Parameter List

Canisters	Length: 120mm Diameter: 38mm (50 Neck diameter)					Length: 276mm Diameter: 38mm (50 Neck diameter)				
Cryogenic vials	Canes/Canister	Cryogenic vials/Cane	Cryogenic vials/Canister	Canisters/Container	Cryogenic vials/Container	Canes/Canister	Cryogenic vials/Cane	Cryogenic vials/Canister	Canisters/Container	Cryogenic vials/Container
0.5ml	3	3	9	6	54	3	6	18	6	108
1.5ml	3	3	9	6	54	3	6	18	6	108
2ml	3	3	9	6	54	3	6	18	6	108
3ml	3	3	9	6	54	3	6	18	6	108
5ml	3	1	3	6	18	3	2	6	6	36

Canisters	Length: 120mm Diameter: 63mm (80 Neck diameter)					Length: 276mm Diameter: 63mm (80 Neck diameter)				
Cryogenic vials	Canes/Canister	Cryogenic vials/Cane	Cryogenic vials/Canister	Canisters/Container	Cryogenic vials/Container	Canes/Canister	Cryogenic vials/Cane	Cryogenic vials/Canister	Canisters/Container	Cryogenic vials/Container
0.5ml	11	3	33	6	198	11	6	66	6	396
1.5ml	11	3	33	6	198	11	6	66	6	396
2ml	11	3	33	6	198	11	6	66	6	396
3ml	11	3	33	6	198	11	6	66	6	396
5ml	11	1	11	6	66	11	3	33	6	198

Canisters	Length: 120mm Diameter: 97mm (125 Neck diameter)					Length: 276mm Diameter: 97mm (125 Neck diameter)				
Cryogenic vials	Canes/Canister	Cryogenic vials/Cane	Cryogenic vials/Canister	Canisters/Container	Cryogenic vials/Container	Canes/Canister	Cryogenic vials/Cane	Cryogenic vials/Canister	Canisters/Container	Cryogenic vials/Container
1.5ml	27	3	81	6	486	27	6	162	6	972
2ml	27	3	81	6	486	27	6	162	6	972
3ml	27	3	81	6	486	27	6	162	6	972
5ml	27	1	27	6	162	27	3	81	6	486



Blood bag box



Frame with blood bag boxes



Liquid nitrogen pump



Cryogenic liquid measuring scale



Canister



Carrying cart