



## CryoKING Liquid Nitrogen Tanks

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

Ver. 2022



# BIOLOGIX<sup>®</sup>

## Introduction



Biologix is specialized in the R & D and production of disposable medical detection reagents & supplies, laboratory supplies & instruments, and complete biobanking solutions. Biologix has the standard class 100,000 clean room which are compliant with GMP standards and number of professional R & D testing laboratories which are all ISO 9001, CE, and FDA registered, and follow the strict CDC guidelines for purity and efficiency. Biologix is committed to the design and manufacture of high-quality products, enriching product lines, and strengthening the service of complete solutions.

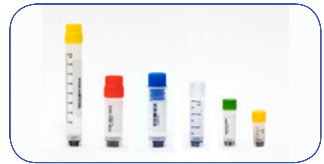
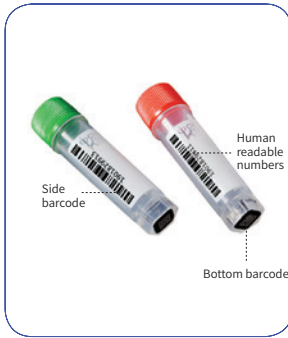
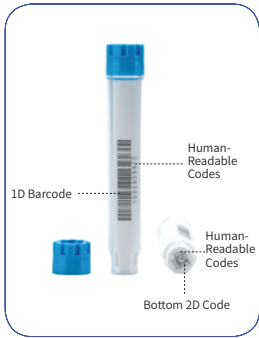
CryoKING is a cold chain and biobanking brand by Biologix. CryoKING products focus and concentrate on standardization, formalization and digitalization of biobank. Its advantage is based on upstream industry, research and market integration, covering the downstream industry to offer complete and one-stop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

# CRYOKING MULTI-CODED CRYOGENIC VIALS ENHANCE BIOBANKING MANAGEMENT

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.



Cryogenic Vials with 3 Codes



Scanner CKS-1301



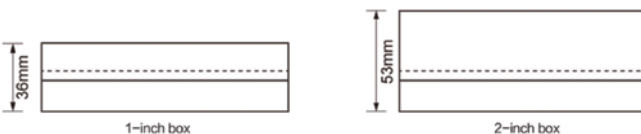
Scanner CKS-0101

## 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 (10x10) can store 23% more samples compared with 81-welled cryogenic boxes (9x9).



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CKD-V035S013



CKD-V045S013



CKD-V180S013

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  $-150\text{ }^{\circ}\text{C}$  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  $\pm 1\text{ }^{\circ}\text{C}$ . 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- V130S014 CKD- V160S014 CKD- V180S014
Vertical type racks					
25ml blood bags					
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		
Neck opening (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			27000		
Racks with 5x5 boxes	4			4			12		
Racks with 10x10 boxes	12			12			24		
5x5 boxes	40			56			120		
10x10 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 (91-5025)	1296	6	216	1728	8	216	2376	6	396
50ml (91-5050)	792	6	132	1056	8	132	1416	6	236
200ml (91-5200)	168	3	56	280	5	56	336	3	112
250ml (91-5250)	300	3	100	500	5	100	552	3	184
500ml(91-5500)	192	3	64	320	5	64	408	3	136
700ml(91-5700)	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			465			465		
Neck opening (mm)	828			773			900		
Outer diameter (mm)	1104			1190			1190		
Overall height(mm)	1591			1559			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	37800			42900			51000		
Racks with 5x5 boxes	12			4			16		
Racks with 10x10 boxes	24			32			30		
5x5 boxes	168			52			240		
10x10 boxes	336			416			480		
Boxes per rack	14			13			15		
Max. straw holding capacity									
0.5ml straw	253800			304920			381996		
0.25ml straw	585680			699360			879972		
Ø76 racks	112			120			136		
Ø63 racks	0			16			6		
Ø38 racks	24			40			30		
Rack layers	5			5			6		
Rack height	135			135			135		
Maximum blood bag capacity									
血袋规格	Total Bags	Bags/Frame	No.Frames	Total Bags	Bags/Frame	No.Frames	Total Bags	Bags/Frame	No.Frames
25ml (91-5025)	3168	8	396	3360	7	480	4356	9	484
50ml (91-5050)	1888	8	236	2072	7	296	2682	9	298
200ml (91-5200)	560	5	112	544	4	136	670	5	134
250ml (91-5250)	920	5	184	944	4	236	1180	5	236
500ml(91-5500)	680	5	136	640	4	160	810	5	162
700ml(91-5700)	272	4	68	320	4	80	400	5	80



## Order Information-Parameter List

Cat#	CKD-V130S013	CKD-V160S013	CKD-V180S013	CKD-V180S014								
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								
Neck opening (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	58500	76050	87750	94875								
Racks with 5x5 boxes	18	18	18	13								
Racks with 10x10 boxes	54	54	54	60								
5x5 boxes	180	234	270	195								
10x10 boxes	540	702	810	900								
Boxes per rack	10	13	15	15								
Max. straw holding capacity												
0.5ml straw	480168	600210	720252	671166								
0.25ml straw	1101000	1376250	1651500	1543884								
Ø76 racks	234	234	234	232								
Ø63 racks	42	42	42	24								
Ø38 racks	54	54	54	39								
Rack layers	4	4	6	6								
Rack height	135	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	Total Bags	Bags/ Frame	No. Frames
25ml (91-5025)	4716	6	786	5502	7	786	7074	9	786	7758	9	862
50ml (91-5050)	2916	6	486	3402	7	486	4374	9	486	4905	9	545
200ml (91-5200)	666	3	222	888	4	222	1110	5	222	1290	5	258
250ml (91-5250)	1170	3	390	1560	4	390	1950	5	390	2095	5	419
500ml(91-5500)	828	3	276	1104	4	276	1380	5	276	1520	5	304
700ml(91-5700)	396	3	132	528	4	132	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
- ◆ Carrying cart is optional
- ◆ CE certified
- ◆ Five years vacuum warranty





## Order Information-Parameter List

Cat#	CKS- L010Q125	CKS- L030Q125	CKS- L035Q125	CKS- L047W127	CKS- T350Q125	CKS- L065Q216	
Unit parameter							
LN2 capacity(L)	10	31.5	35.5	47	50	65	
Neck opening(mm)	125	125	125	127	125	216	
Static evaporation Rate(L/Day)	0.42	0.35	0.36	0.36	0.45	0.78	
Static holding time (Day)	24	90	97	130	110	83	
Storage capacity							
Racks and vial boxes	Number of racks (ea)	1	6	6	-	6	6
	Dimension of racks (mm)	82×84	82×84	82×84	-	82×84	142×144
	Dimension of boxes (mm)	75×75	75×75	75×75	-	75×75	133×133
	Number of layers per rack (ea)	4	4	5	-	6	4
	Number of vials (ea)	100	600	750	-	900	1944
Containers							
Height (mm)	625	704	748	718	818	712	
Outer diameter (mm)	300	462	462	508	462	681	
Empty weight (kg)	6.3	13	14.6	18.2	17.3	38.3	
Accessories Included							
Lockable lid	√	√	√	-	√	√	
Protective PU bag	-	√	√	-	√	√	
Optional accessories							
Carrying cart	-	√	√	√	√	√	



## Order Information-Parameter List

Cat#		CKS-L095Q216	CKS-L115Q216	CKS-L145Q216	CKS-L175Q216
Unit parameter					
LN2 capacity(L)		95	115	145	175
Neck opening(mm)		216	216	216	216
Static evaporation Rate(L/Day)		0.97	0.94	0.96	0.95
Static holding time (Day)		98	122	151	184
Storage capacity					
Racks and vial boxes	Number of racks (ea)	6	6	6	6
	Dimension of racks (mm)	142x144	142x144	142x144	142x144
	Dimension of boxes (mm)	133x133	133x133	133x133	133x133
	Number of layers per rack (ea)	5	6	8	10
	Number of vials (ea)	2430	2916	3888	4860
Containers					
Height (mm)		774	846	946	1060
Outer diameter (mm)		681	681	681	681
Empty weight (kg)		41.3	42.3	48.9	53.8
Accessories Included					
Lockable lid		√	√	√	√
Protective PU bag		-	-	-	-
Optional accessories					
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





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	52	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)	-	-	-	-
	0.25ml (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	√	-	√	√	√

## Static Storage Series



Static storage series are economic small liquid nitrogen tanks, specifically designed for long-term static storage of biological samples. There are two types: large capacity and long storage time. 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
- ◆ Lockable lid is optional to prevent unauthorized open
- ◆ Carrying cart is optional
- ◆ Liquid nitrogen pump is optional
- ◆ CE certified
- ◆ Five years vacuum warranty





## 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	1284
	0.25ml (ea)	-	2832	-	-	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	-	-	-	-	-	√	

## Static Storage Series



### 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
	0.25ml (ea)	8460	-	2832	8460	20760
Containers						
Height(mm)	709	704	749	753	748	718
Outer diameter(mm)	462	462	462	462	462	508
Empty weight(kg)	13	13	14.2	14.5	14.6	18.2
Accessories Included						
Lockable lid	√	√	√	√	√	√
Protective PU bag	√	√	√	√	√	-
Optional accessories						
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
- ◆ Lockable lid is optional to prevent unauthorized open
- ◆ Carrying cart is optional
- ◆ Liquid nitrogen pump is optional
- ◆ CE certified
- ◆ Five years vacuum warranty



## Special Transport Series



### Order Information-Parameter List

Cat#		CKS-T620Z050	CKS-T630Z050	CKS-T635Z050	CKS-T335R080	CKS-T650Z050
Unit Parameter						
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
Storage capacity						
Canister outer diameter (mm)		38	38	38	63	38
Canister height(mm)		120	120	120	120	120
Number of canisters (ea)		6	6	6	0	6
Straw holding capacity (single layer)	0.5ml (ea)	792	792	792	2244	792
	0.25ml (ea)	1788	1788	1788	5022	1788
Containers						
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	17.2
Accessories Included						
Lockable lid		√	√	√	-	√
Protective PU bag		√	√	√	√	√
Optional accessories						
Carrying cart		√	√	√	√	√

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



Air transport series is suitable for cryogenic environment (vapor storage at temperatures below  $-190\text{ }^{\circ}\text{C}$ ) 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 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-A110T125	CKS-A110Q125	CKS-A125Q216	
Unit Parameter							
LN2 capacity (L)		1.3	2.9	3.4	3.4	9	
Neck opening (mm)		50	80	125	125	216	
Static evaporation rate(L/Day)		0.16	0.20	0.43	0.43	0.89	
Static holding time—gas phase (Day)		8	14	8	8	10	
Static holding time—liquid phase (Day)		20	37	23	23	29	
Storage capacity							
Canisters	Canister outer diameter (mm)	38	63	97	—	—	
	Canister height(mm)	120	120	276	—	—	
	Canisters (ea)	1	1	0	—	—	
	Straw holding capacity (single layer)	0.5ml(ea)	132	374	854	—	—
		0.25ml(ea)	298	837	1940	—	—
Racks and vial boxes	Racks (ea)	—	—	—	1	1	
	Box size (ea)	—	—	—	75×75	133×133	
	Layers per racks (ea)	—	—	—	4	5	
	Vials(ea)	—	—	—	100	405	
25ml	Racks(ea)	—	—	—	1	1	
	Layers of racks(ea)	—	—	—	1	2	
	Boxes per rack(ea)	—	—	—	3	15	
	Blood bags(ea)	—	—	—	3	30	
50ml	Racks (ea)	—	—	—	1	1	
	Layers of racks (ea)	—	—	—	1	1	
	Boxes per rack(ea)	—	—	—	3	15	
	Blood bags (ea)	—	—	—	3	15	
Containers							
Height (mm)		435	487	625	625	716	
Outer diameter (mm)		223	300	300	300	394	
Empty weight (kg)		3.2	4.9	6.7	6.7	15	
Accessories Included							
Lockable lid		√	√	√	√	√	
Protective PU bag		√	√	-	-	-	





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. 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
- ◆ Level display is optional
- ◆ Solenoid valve is optional
- ◆ Automatic filling system is optional



## Liquid Nitrogen Filling Series



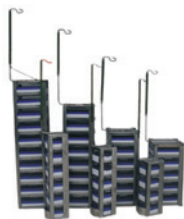
### Order Information-Parameter List

Cat#	CKD-Z100K040	CKD-Z200K040	CKD-Z300K040	CKD-Z500K040
Unit Parameter				
Effective capacity (L)	100	200	300	500
Neck diameter (mm)	40	40	40	40
Daily evaporation loss rate (%) ★	1.3	1.2	1.1	1.1
Liquid nitrogen filling tank				
Height (mm)	1185	1265	1459	1576
Outer diameter (mm)	606	758	857	1008
Weight empty (kg)	75	130	202	255
Standard working pressure (Mpa)	0.05			
Maximum working pressure (Mpa)	0.09			
Setting pressure of the first safety valve (Mpa)	0.099			
Setting pressure of the second safety valve (Mpa)	0.15			
Pressure gauge indication range (Mpa)	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

A Series	K Series
Standard	
Single layer infusion hose {ZG-DN10/1.5}	Single layer infusion hose {ZG-DN10/1.5}, Digital display liquid level meter {DLZ-100} and voltage regulator, Can be used in auto-filling system
Option	
Float level gauge	



Rack with vial boxes



Plug



Lockable lid



Blood bag box



Frame with  
blood bag boxes



Liquid  
nitrogen pump



Cryogenic liquid  
measuring scale



Canister



Carrying cart



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