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# CryoKING Low Temperature Storage System

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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

## **Brand Introduction**

# 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.





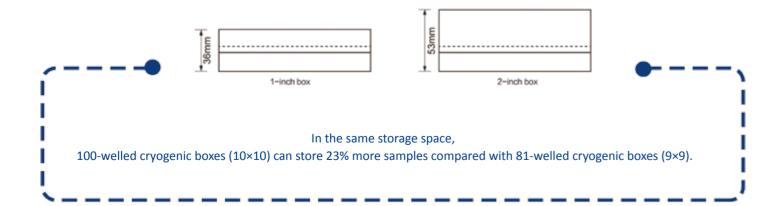


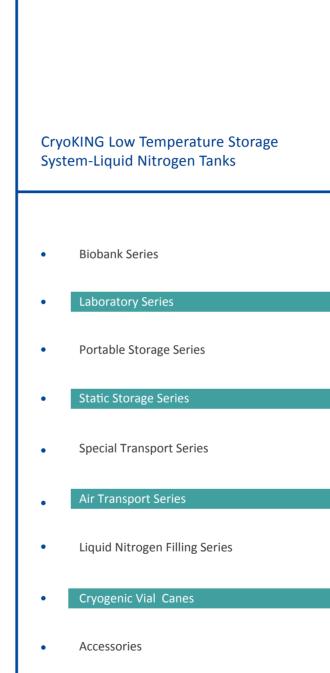
scanner 3.0

## 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.







| 01-07 |
|-------|
| 08-10 |
| 11    |
| 12-14 |
| 15-16 |
| 17-18 |
| 19-20 |
| 21    |
|       |

22

## **Biobank Series**





CKD-V045S013





CKD-V180S013

#### 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





#### 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;

| $\bigcirc$  |  |
|-------------|--|
| √(-150°C)/√ |  |

#### 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  $\degree$  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-inchLCD 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.

## **Biobank Series**



## 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





|                              | CKD- V035S013<br>CKD- V045S013 | CKD- V055S013<br>CKD- V075S013 | CKD- V085S013<br>CKD- V100S013 | CKD- V130S013<br>CKD- V160S013<br>CKD- V180S013 | CKD-V1805014 |
|------------------------------|--------------------------------|--------------------------------|--------------------------------|---|--------------|
| Vertical type<br>racks       |                                |                                |                                |   |              |
| Canisters<br>(0.25ml, 0.5ml) |                                |                                |                                |   |              |
| 50ml blood<br>bags           |                                |                                |                                |   |              |

# **Biobank Series**

| Cat#  | Ck         | D-V035S01  | .3         | Ck         | D-V045S01  | 3         | C          | KD-V055S(  | )13       |  |
|---|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|--|
|   |            | ι          | Unit parar | neter      |            |           |            |            |           |  |
| 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        | k. 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. st    | raw holdi  | ng capacit | у          |           |            |            |           |  |
| 0.5ml straw                                     |            | 111312     |            |            | 131220     |           |            | 203040     | 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        |           |  |
|   |            | Maxim      | um blood   | bag capac  | ity        |           |            |            |           |  |
| 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 |            | 236       |  |
| 200ml(DF-200)                                   | 168        | 3          | 56         | 280        | 5          | 56        | 336        | 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#  | СКЕ        | -V075S013  |             | CKI          | D-V085S013 |           | CI         | KD-V100S01 | .3        |  |
|---|------------|------------|-------------|--------------|------------|-----------|------------|------------|-----------|--|
|   | 1          | U          | nit param   | eter         |            | I         |            |            |           |  |
| 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 o | apacity      |            |           |            |            |           |  |
| 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. str   | aw holdin   | g 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        |           |  |
|   |            | Maximu     | um blood    | bag capacit  | .y         |           |            |            |           |  |
| Blood Bag Type                                  | Total Bags | Bags/Frame | No.Frames   | s 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        |  |

# **Biobank Series**

| Cat#  | CKD-       | V130S0         | 13            | CKD-        | V160S0         | )13           | CKD        | -V180S(        | 014           | CKD-       | V180S(         | 013           |
|---|------------|----------------|---------------|-------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|
|   |            |                |               | Unit pa     | ramete         | r             |            |                |               |            |                |               |
| 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)                             | -          | L398           |               |             | 1589           |               |            | 1883           |               |            | 1883           |               |
| Empty weight (kg)                               |            | 851            |               |             | 914            |               |            | 985            |               |            | 985            |               |
| Weight liquid full (mm)                         |            | 997            |               |             | 967            |               |            | 1097           |               |            | 1097           |               |
| Door width requirement(kg)                      |            | L934           |               |             | 2255           |               |            | 2504           |               |            | 2504           |               |
| Door width ≥ (mm)                               |            | L585           |               |             | 1585           |               |            | 1585           |               |            | 1585           |               |
|   |            |                | Μ             | lax. storag | ge capa        | city          |            |                |               |            |                |               |
| 1.2ml,1.8ml,2ml internal thread cryogenic vials | 6          | 3250           |               | 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 holo  | ding cap       | bacity        |            |                |               |            |                |               |
| 0.5ml straw                                     | 44         | 17444          | -             | 559305      |                |               |            | 720252         |               | 671166     |                |               |
| 0.25ml straw                                    | 10         | 29256          |               |             | 128657         | '0            | 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 holo  | ding cap       | pacity        |            |                |               |            |                |               |
| Blood Bag Type                                  | Total Bags | Bags/<br>Frame | No.<br>Frames | Total Bags  | Bags/<br>Frame | No.<br>Frames | Total Bags | Bags/<br>Frame | No.<br>Frames | Total Bags | Bags/<br>Frame | No.<br>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.



|                   | Cat#                           | CKS-<br>L010Q125 | CKS-<br>L030Q125  | CKS-<br>L035Q125 | CKS-<br>L047W127 | CKS-<br>L065Q216 |  |  |  |  |
|-------------------|--------------------------------|------------------|-------------------|------------------|------------------|------------------|--|--|--|--|
|                   | Unit parameter                 |                  |                   |                  |                  |                  |  |  |  |  |
| LN2 ca            | apacity(L)                     | 10               | 31.5              | 35.5             | 47               | 65               |  |  |  |  |
| Neck o            | opening(mm)                    | 125              | 125               | 125              | 127              | 216              |  |  |  |  |
| Static e          | evaporation Rate(L/Day)        | 0.42             | 0.35              | 0.36             | 0.36             | 0.78             |  |  |  |  |
| Static h          | nolding time (Day)             | 24               | 90                | 97               | 130              | 83               |  |  |  |  |
|                   |                                |                  | Storage capaci    | ty               | '<br>            |                  |  |  |  |  |
|                   | Number of racks (ea)           | 1                | 6                 | 6                | 6                | 6                |  |  |  |  |
| Racks             | Dimension of racks (mm)        | 82×84            | 82x84             | 82x84            | 105x100          | 142×144          |  |  |  |  |
|                   | Dimension of boxes (mm)        | 76×76            | 76x76             | 76x76            | 76x76            | 134×134          |  |  |  |  |
| boxes             | 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 o           | diameter (mm)                  | 300              | 462               | 462              | 508              | 681              |  |  |  |  |
| Empty             | weight (kg)                    | 5.9              | 13                | 14.6             | 18.2             | 38.3             |  |  |  |  |
|                   |                                |                  | Accessories Inclu | ıded             |                  |                  |  |  |  |  |
| Lockab            | le lid                         | V                | V                 | V                | V                | V                |  |  |  |  |
| Protective PU bag |                                | V                | V                 | V                | _                |                  |  |  |  |  |
|                   |                                |                  | Optional accesso  | ories            |                  |                  |  |  |  |  |
| Intellig          | ent monitor                    | V                | V                 | V                | V                | V                |  |  |  |  |
| Carryir           | ng cart                        | _                | V                 | V                | V                | V                |  |  |  |  |

\*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 capa     | acity(L)                       | 95                  | 115          | 175          |
| Neck ope     | ening(mm)                      | 216                 | 216          | 216          |
| Static eva   | aporation Rate (L/Day)         | 0.97                | 0.94         | 0.95         |
| Static ho    | lding time (Day)               | 98                  | 122          | 184          |
|              |                                | Storage capacity    |              |              |
|              | Number of racks (ea)           | 6                   | 6            | 6            |
| Racks        | Dimension of racks (mm)        | 142×144             | 142×144      | 142×144      |
| and vial     | Dimension of boxes (mm)        | 134×134 134×134     |              | 134×134      |
| boxes        | Number of layers per rack (ea) | 5                   | 6            | 10           |
|              | Number of vials (ea)           | 3000 3600           |              | 6000         |
|              |                                | Containers          |              |              |
| Height (mn   | ו)                             | 774                 | 846          | 1060         |
| Outer diam   | eter (mm)                      | 681                 | 681          | 681          |
| Empty weig   | ght (kg)                       | 41.3                | 42.3         | 53.8         |
|              |                                | Accessories Include | d            |              |
| Lockable lic | 1                              | V                   | V            | V            |
| Protective I | PU bag                         | _                   | _            | _            |
|              |                                | Optional accessorie | S            |              |
| Intelligent  | monitor                        | V                   | $\checkmark$ | V            |
| Carrying ca  | rt                             | V                   |              | V            |

# Laboratory Series

## Portable Storage Series



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      |              | 1            | 1            |
| LN2 capacity (L)            |             | 2            | 2                   | 3            | 6            | 10           |
| Neck opening (mn            | ר)          | 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 dia          | ameter (mm) | 19           | 25                  | 38           | 38           | 38           |
| Canister height(n           | nm)         | 120          | 120                 | 120          | 120          | 120          |
| Number of canist            | ers (ea)    | 3            | 3                   | 6            | 6            | 6            |
| Straw holding               | 0.5ml (ea)  | 90           | 165                 | 792          | 792          | 792          |
| capacity<br>(singlelayer)   | 0.25ml (ea) | 204          | 330                 | 1788         | 1788         | 1788         |
| Straw holding               | 0.5ml (ea)  | _            |                     | _            | _            |              |
| capacity<br>(double layers) | 0.25m (ea)  | _            | _                   | _            | _            |              |
|                             |             |              | Containers          |              |              |              |
| Height(mm)                  |             | 399          | 428                 | 435          | 482          | 552          |
| Outer diameter(n            | nm)         | 223          | 204                 | 223          | 300          | 300          |
| Empty weight(kg)            |             | 2.8          | 2.6                 | 3.1          | 4.8          | 6.1          |
|                             |             |              | Accessories Include | d            |              |              |
| Lockable lid                |             | V            | V                   | V            | V            | V            |
| Protective PU bag           | 5           | V            | V                   | V            | V            | V            |

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

# Static Storage Series



| Ca                              | t#             | CKS-S610Z080 | CKS-S613T050 | CKS-S615Z050 | CKS-S620Z050 | CKS-S625T050 | CKS-S630T050 |
|---------------------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                 |                | J            | Unit Pa      | arameter     |              |              |              |
| LN2 capacity (L                 | _)             | 10           | 13           | 15           | 20           | 25           | 31.5         |
| Neck opening                    | (mm)           | 80           | 50           | 50           | 50           | 50           | 50           |
| Static evaporatic               | on rate(L/Day) | 0.21         | 0.12         | 0.11         | 0.12         | 0.14         | 0.12         |
| Static holding t                | time (Day)     | 48           | 109          | 134          | 168          | 180          | 254          |
|                                 |                |              | Storage      | e capacity   |              |              |              |
| Canister outer<br>diameter (mm) | )              | 63           | 38           | 38           | 38           | 38           | 38           |
| Canister height                 | t(mm)          | 120          | 276          | 120          | 120          | 276          | 276          |
| Number of canisters (ea)        |                | 6            | 6            | 6            | 6            | 6            | 6            |
| Straw holding<br>capacity       | 0.5ml (ea)     | 2244         | —            | 792          | 792          | _            | _            |
| (single layer)                  | 0.25ml (ea)    | 5022         | —            | 1788         | 1788         | _            | _            |
| Straw holding<br>capacity       | 0.5ml (ea)     | —            | 1284         | _            | —            | 1284         | 1284         |
| (double<br>layers)              | 0.25m (ea)     | _            | 2832         | _            | _            | 2832         | 2832         |
|                                 |                |              | Cont         | tainers      |              |              |              |
| Height(mm)                      |                | 557          | 623          | 591          | 672          | 700          | 705          |
| Outer diamete                   | r(mm)          | 300          | 310          | 394          | 394          | 394          | 462          |
| Empty weight(                   | kg)            | 6.2          | 6.3          | 8.5          | 9.5          | 10.7         | 12.9         |
|                                 |                |              | Accessori    | es Included  |              |              |              |
| Lockable lid                    |                | V            | V            | V            | V            | V            | V            |
| Protective PU bag               |                | V            | V            | V            | V            | V            | V            |
|                                 |                |              | Optional     | accessories  |              |              |              |
| Intelligent mor                 | nitor          | ٧            | V            | V            | V            | V            | ٧            |
| Carrying cart                   |                |              | —            | —            | —            | —            | V            |

# Order Information-Parameter List

| Ca                          | at#            | CKS-S630T080 | CKS-S630Z125 | CKS-S635T050 | CKS-S635T080 | CKS-S635T125 | CKS-S947T127 |
|-----------------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                             |                |              | Unit Pa      | arameter     |              |              |              |
| LN2 capacity (I             | _)             | 31.5         | 31.5         | 35.5         | 35.5         | 35.5         | 47           |
| Neck opening                | (mm)           | 80           | 125          | 50           | 80           | 125          | 127          |
| Static evaporatic           | on rate(L/Day) | 0.21         | 0.35         | 0.12         | 0.22         | 0.37         | 0.36         |
| Static holding t            | time (Day)     | 147          | 90           | 286          | 159          | 97           | 130          |
|                             |                |              | Storage      | e capacity   |              |              |              |
| Canister outer diameter (mm | )              | 63           | 97           | 38           | 63           | 97           | 72           |
| Canister height             | t(mm)          | 276          | 120          | 276          | 276          | 276          | 276          |
| Number of<br>canisters (ea) |                | 6            | 6            | 6            | 6            | 6            | 10           |
| Straw holding capacity      | 0.5ml (ea)     | _            | 5124         | _            | _            | _            | -            |
| (single layer)              | 0.25ml (ea)    | _            | 11952        | _            | _            | _            | _            |
| Straw holding capacity      | 0.5ml (ea)     | 3624         | _            | 1284         | 3624         | 9048         | 8200         |
| (double<br>layers)          | 0.25m (ea)     | 8460         | _            | 2832         | 8460         | 20760        | 16400        |
|                             |                |              | Cont         | tainers      |              |              |              |
| Height(mm)                  |                | 705          | 705          | 750          | 754          | 748          | 718          |
| Outer diamete               | r(mm)          | 462          | 462          | 462          | 462          | 462          | 508          |
| Empty weight(               | kg)            | 13           | 12.9         | 14.2         | 14.5         | 14.6         | 18.2         |
|                             |                |              | Accessori    | es Included  |              |              |              |
| Lockable lid                |                | V            | V            | V            | V            | V            | V            |
| Protective PU               | bag            | V            | V            | V            | V            | V            | -            |
|                             |                |              | Optional     | accessories  |              |              |              |
| Intelligent mor             | nitor          | ٧            | V            | V            | V            | V            | V            |
| Carrying cart               |                | V            | V            | V            | V            | V            | V            |

# Static Storage Series



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-<br>T620Z050 | CKS-<br>T630Z050 | CKS-<br>T635Z050 | CKS-<br>T335R080 | CKS-<br>T650Z050 |  |  |  |  |
|-----------------------------|----------------------|------------------|------------------|------------------|------------------|------------------|--|--|--|--|
| Unit Parameter              |                      |                  |                  |                  |                  |                  |  |  |  |  |
| LN2 capacity (              | L)                   | 20               | 20 31.5 35.5     |                  | 35.5             | 50               |  |  |  |  |
| Neck opening(               | mm)                  | 50               | 50               | 50               | 80               | 50               |  |  |  |  |
| Static evaporat<br>(L/Day)  | tion rate            | 0.20             | 0.20             | 0.20             | 0.30             | 0.24             |  |  |  |  |
| Static holding t            | 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              |  |  |  |  |
| Canisters(ea)               |                      | 6                | 6                | 6                | 6                | 6                |  |  |  |  |
| Straw holding               | 0.5ml (ea)           | 792              | 792              | 792              | 2244             | 792              |  |  |  |  |
| capacity<br>(single layer)  | 0.25ml (ea)          | 1788             | 1788             | 1788             | 5022             | 1788             |  |  |  |  |
|                             |                      |                  | Cont             | tainers          |                  |                  |  |  |  |  |
| Height(mm)                  |                      | 672              | 705              | 749              | 753              | 810              |  |  |  |  |
| Outer diamete               | er(mm)               | 394              | 462              | 462              | 462              | 462              |  |  |  |  |
| Empty weight(               | kg)                  | 9.5              | 12.9             | 14.2             | 14.5             | 17.4             |  |  |  |  |
|                             |                      |                  | Accesso          | ries Included    |                  |                  |  |  |  |  |
| Lockable lid                |                      | V                | V                | V                | V                | V                |  |  |  |  |
| Protective PU Bag           |                      | V                | V                | V                | V                | v                |  |  |  |  |
|                             | Optional accessories |                  |                  |                  |                  |                  |  |  |  |  |
| Intelligent mor             | nitor                | V                | V                | V                | V                | V                |  |  |  |  |
| Carrying cart               |                      | _                | V                | V                | V                | v                |  |  |  |  |

| Cat#                           |             | CKS-<br>T620Z050 | CKS-<br>T630Z050 | CKS-<br>T635Z050 | CKS-<br>T335R080 | CKS-<br>T650Z050 |  |  |  |  |
|--------------------------------|-------------|------------------|------------------|------------------|------------------|------------------|--|--|--|--|
| Unit Parameter                 |             |                  |                  |                  |                  |                  |  |  |  |  |
| LN2 capacity (                 | L)          | 20               | 31.5             | 35.5             | 35.5             | 50               |  |  |  |  |
| Neck opening(                  | mm)         | 50               | 50               | 50               | 80               | 50               |  |  |  |  |
| Static evaporat<br>(L/Day)     | tion rate   | 0.20             | 0.20             | 0.20             | 0.30             | 0.24             |  |  |  |  |
| Static holding t               | time (Day)  | 101              | 159              | 179              | 119              | 213              |  |  |  |  |
|                                |             |                  | Storage          | capacity         |                  |                  |  |  |  |  |
| Canister outer<br>diameter (mm |             | 38               | 38               | 38               | 63               | 38               |  |  |  |  |
| Canister height (mm)           |             | 120              | 120              | 120              | 120              | 120              |  |  |  |  |
| Canisters(ea)                  |             | 6                | 6                | 6                | 6                | 6                |  |  |  |  |
| Straw holding                  | 0.5ml (ea)  | 792              | 792              | 792              | 2244             | 792              |  |  |  |  |
| capacity<br>(single layer)     | 0.25ml (ea) | 1788             | 1788             | 1788             | 5022             | 1788             |  |  |  |  |
|                                |             |                  | Cont             | tainers          |                  |                  |  |  |  |  |
| Height(mm)                     |             | 672              | 705              | 749              | 753              | 810              |  |  |  |  |
| Outer diamete                  | er(mm)      | 394              | 462              | 462              | 462              | 462              |  |  |  |  |
| Empty weight(                  | (kg)        | 9.5              | 12.9             | 14.2             | 14.5             | 17.4             |  |  |  |  |
|                                |             |                  | Accesso          | ries Included    |                  |                  |  |  |  |  |
| Lockable lid                   |             | V                | V                | V                | V                | V                |  |  |  |  |
| Protective PU Bag              |             | V                | v                | V                | V                | V                |  |  |  |  |
| Optional accessories           |             |                  |                  |                  |                  |                  |  |  |  |  |
| Intelligent mor                | nitor       | V                | V                | V                | V                | V                |  |  |  |  |
| Carrying cart                  |             | _                | V                | V                | V                | v                |  |  |  |  |

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

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

# Special Transport Series

# Air transport Series



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 absorbent 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-<br>A103Z050   | CKS-<br>A106Z080 | CKS-<br>A108Z080 | CKS-<br>A110T125 | CKS-<br>A110Q125 | CKS-<br>A125Q216 |         |
|---------------------|-------------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|---------|
|                     |                               |                    | 1                | Unit             | Parameter        | 1                |                  | ,       |
| LN2 capa            | city (L)                      |                    | 1.3              | 2.9              | 3                | 3.4              | 3.4              | 9       |
| Neck ope            | ening (mn                     | n)                 | 50               | 80               | 80               | 125              | 125              | 216     |
| Static eva          | poration ra                   | ate(L/Day)         | 0.16             | 0.20             | 0.22             | 0.43             | 0.43             | 0.84    |
| Static ho           | lding tim                     | e (Day)            | 8                | 14               | 14               | 8                | 8                | 11      |
|                     |                               |                    |                  | Stora            | ge capacity      |                  |                  |         |
|                     | Caniste<br>diamete            | r outer<br>er (mm) | 38               | 63               | 63               | 97               | _                | _       |
|                     |                               | r height(mm)       | 120              | 120              | 120              | 276              | _                | _       |
| Canisters           | Caniste                       | rs (ea)            | 1                | 1                | 1                | 1                | _                | _       |
|                     | Straw<br>holding              | 0.5ml(ea)          | 132              | 374              | 820              | 854              | _                | _       |
|                     | capacity<br>(single<br>layer) | 0.25ml(ea)         | 298              | 837              | 1780             | 1940             | _                | _       |
| Racks               | Racks (ea)                    |                    | _                | _                | _                | _                | 1                | 1       |
| and                 | Box size (ea)                 |                    | _                | _                | _                | _                | 76×76            | 134×134 |
| vial<br>boxes       | Layers per racks (ea)         |                    | _                | _                | _                | _                | 4                | 5       |
|                     | Vials(ea)                     |                    | _                | _                | _                | _                | 100              | 500     |
|                     | Racks(e                       | a)                 | —                | _                | _                | _                | 1                | 1       |
| 25ml                | Layers o                      | of racks(ea)       | —                | _                | —                | —                | 2                | 3       |
| 23111               | Boxes p                       | er rack(ea)        | _                | _                | —                | _                | 3                | 15      |
|                     | Blood b                       | ags(ea)            | _                | _                | _                | _                | 6                | 45      |
|                     | Racks (e                      | ea)                | —                | _                | _                | _                | 1                | 1       |
| 50ml                | Layers o                      | f racks (ea)       | _                | _                | —                | _                | 1                | 2       |
| 50111               | Boxes p                       | er rack(ea)        | —                | _                | —                | _                | 3                | 15      |
|                     | Blood b                       | ags (ea)           | _                | _                | _                | _                | 3                | 30      |
|                     |                               |                    |                  | Co               | ontainers        |                  |                  |         |
| Height (r           | nm)                           |                    | 428              | 487              | 509              | 554              | 554              | 716     |
| Outer diameter (mm) |                               | 223                | 300              | 300              | 300              | 300              | 394              |         |
| Empty w             | eight (kg                     | ;)                 | 3.2              | 4.9              | 6.2              | 6.7              | 6.7              | 15      |
|                     |                               |                    |                  | Accesso          | ries Included    |                  |                  |         |
| Lockable            | lid                           |                    | V                | V                | V                | V                | V                | V       |
| Protectiv           | ve PU bag                     | 5                  | V                | V                | ٧                | V                | ٧                | V       |

# Air transport Series



# 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-<br>Z030K040 | CKD-<br>Z050K040 | CKD-<br>Z100K040 | CKD-<br>Z200K040 | CKD-<br>Z300K040 | CKD-<br>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<br>(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<br>{ZG-DN10/1.5} | Single layer infusion hose<br>{ZG-DN10/1.5} | Single layer infusion hose {ZG-DN10/1.5}<br>Digital liquid level meter {DLZ-100}<br>No data remote transmission function | Single layer infusion hose<br>{ZG-DN10/1.5}<br>Digital display liquid level meter<br>and voltage regulator<br>{DLZ-300}<br>Can be used in auto-filling system |  |  |  |  |  |
|   |   | Option   |   |  |  |  |  |  |
| Float level gauge                           | Float level gauge                           |  |   |  |  |  |  |  |

# Liquid Nitrogen Filling Series

Cryogenic vial canes







Rack with vial boxes

Plug

# Order Information-Parameter List

| Canisters          | Length: 120mm Diameter: 38mm (50 Neck diameter) |   |                             |                         |                              | Length: 276mm Diameter: 38mm (50 Neck diameter)  |                         |                              |                         |                                  |
|--------------------|---|---|-----------------------------|-------------------------|------------------------------|--|-------------------------|------------------------------|-------------------------|----------------------------------|
| Cryogenic<br>vials | Canes/<br>Canister                              | Cryogenic<br>vials/Cane                         | Cryogenic<br>vials/Canister | Canisters/<br>Container | Cryogenic<br>vials/Container | Canes/<br>Canister                               | Cryogenic<br>vials/Cane | Cryogenic vials/<br>Canister | Canisters/<br>Container | Cryogenic<br>vials/<br>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          | Leng  | Length: 120mm Diameter: 63mm (80 Neck diameter) |                             |                         |                              |  | ngth: 276mm             | Diameter: 63mm (8            | 80 Neck diame           | eter)                            |
| Cryogenic<br>vials | Canes/<br>Canister                              | Cryogenic<br>vials/Cane                         | Cryogenic<br>vials/Canister | Canisters/<br>Container | Cryogenic<br>vials/Container | Canes/<br>Canister                               | Cryogenic<br>vials/Cane | Cryogenic vials/<br>Canister | Canisters/<br>Container | Cryogenic<br>vials/<br>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          | Lengt   | h: 120mm D                                      | iameter: 97mm (             | 125 Neck dia            | meter)                       | Length: 276mm Diameter: 97mm (125 Neck diameter) |                         |                              |                         |                                  |
| Cryogenic<br>vials | Canes/<br>Canister                              | Cryogenic<br>vials/Cane                         | Cryogenic<br>vials/Canister | Canisters/<br>Container | Cryogenic<br>vials/Container | Canes/<br>Canister                               | Cryogenic<br>vials/Cane | Cryogenic vials/<br>Canister | Canisters/<br>Container | Cryogenic<br>vials/<br>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





Cryogenic liquid measuring scale

# Accessories



Lockable lid



Frame with blood bag boxes

Liquid nitrogen pump

Canister

Carrying cart