

BREEDER DEWARS SOLUTION

By Antech Scientific



► Company Profile

ANTECH Group is committed to offering high quality laboratory instruments and medical products while matching to the unique needs of customer. Our dedication is to provide quality instruments with lifetime care.

Antech Group sets its production facilities in 5 cities. The product lines include:

Cold storage - Cryogenic freezer, ULT freezer, deep freezer, pharmacy refrigerator, blood bank refrigerator, vaccine refrigerator, mortuary freezer and cold room

Cryogenic storage - liquid nitrogen freezer, liquid nitrogen container and Dewar vessel

In accordance to our unique business philosophy, we always remind ourselves to avoid any short-sighted activities and to focus on long-term success and growth.

We Antech team treat our customers as long-term partners & life-time friends. We are very clear that any of our success comes and will come from satisfaction of our partners and customers. "Quality instruments, lifetime care" is commitment to our partners, as well as to ourselves.



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Introduction

CryoMajor series are economical small and medium size liquid nitrogen containers for long term static state storage. CryoMajor series are made of high strength and lightweight aluminum alloy. There is multilayer superior performance thermal insulation inside.

Various accessories are optional. Mainly apply to animal husbandry and laboratories.

Key Features

- | | |
|--|---|
| 1 High strength and lightweight aluminum construction | 5 Lockable lids |
| 2 Ultra-low evaporation losses | 6 Straw storage |
| 3 Numbered index canisters | 7 LN ₂ dispenser (optional) |
| 4 Mobile roller bases optional | 8 5 year vacuum warranty |

Important Accessories

1. 600mm Liquid Level Ruler
2. 1000mm Liquid Level Ruler
3. LN₂ Dispenser



CryoMajor series

Technical Parameters

| Model | CryoMajor 2/30 | CryoMajor 2/35 | CryoMajor 3/50 | CryoMajor 6/50 | CryoMajor 8/80 | CryoMajor 10/50 |
|---------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| Maximum Storage Capacity | | | | | | |
| Number of Canisters | 3 | 3 | 6 | 6 | 6 | 6 |
| Number of Straws (0.5ml) | 90 | 165 | 792 | 792 | 2244 | 792 |
| Number of Straws (0.25ml) | 204 | 330 | 1788 | 1788 | 5022 | 1788 |
| Performance | | | | | | |
| Liquid N2 Capacity(L) | 2 | 2 | 3.1 | 6 | 8 | 10 |
| Static Evaporation(L/D) | 0.07 | 0.08 | 0.12 | 0.12 | 0.21 | 0.12 |
| Static Holdover time(Day) | 28 | 24 | 26 | 52 | 38 | 86 |
| Dimensions | | | | | | |
| Neck Diameter (mm) | 30 | 35 | 50 | 50 | 80 | 50 |
| Overall Height(mm) | 399 | 428 | 435 | 482 | 502 | 552 |
| External Diameter (mm) | 223 | 204 | 223 | 300 | 300 | 300 |
| Canister Diameter(mm) | 19 | 25 | 38 | 38 | 63 | 38 |
| Canister Height (mm) | 120 | 120 | 120 | 120 | 120 | 120 |
| Weight Empty (KG) | 2.8 | 2.6 | 3.1 | 4.8 | 5.9 | 5.9 |
| Weight Full (KG) | 4.4 | 4.2 | 5.6 | 9.7 | 12.5 | 14.1 |

| Model | | CryoMajor 10/80 | CryoMajor13/50L | CryoMajor15/50 | CryoMajor15/80 | CryoMajor 20/50(L) |
|-------------------------------------|--------|-----------------|-----------------|----------------|----------------|--------------------|
| Maximum Storage Capacity | | | | | | |
| No. of Canister | | 6 | 6 | 6 | 6 | 6 |
| No. of Straws (1-level Canister) | 0.5ml | 2244 | — | 792 | 2244 | 792 |
| | 0.25ml | 5022 | — | 1788 | 5022 | 1788 |
| No. of Straws (2-level Canister) | 0.5ml | — | 1284 | — | — | 1284 |
| | 0.25ml | — | 2832 | — | — | 2832 |
| Performance | | | | | | |
| Liquid Nitrogen Capacity (L) | | 10 | 13 | 15 | 15 | 20 |
| Static Evaporation (L/day) | | 0.21 | 0.12 | 0.11 | 0.21 | 0.12 |
| Static Holdover time(Day) | | 48 | 109 | 134 | 71 | 168 |
| Dimensions | | | | | | |
| Neck Opening (mm) | | 80 | 50 | 50 | 80 | 50 |
| Overall Height (mm) | | 557 | 623 | 591 | 595 | 672 |
| External Diameter (mm) | | 300 | 310 | 394 | 394 | 394 |
| Canister External Diameter (mm) | | 63 | 38 | 38 | 63 | 38 |
| Canister Height (mm) | | 120 | 276 | 120 | 120 | 120/276 |
| Weight Empty (kg) | | 5.9 | 6.3 | 8.5 | 8.6 | 9.5 |
| Weight Liquid Full (kg) | | 14.1 | 16.6 | 18.2 | 18.2 | 22.3 |

Technical Parameters

| Model | | CryoMajor 20/80(L) | CryoMajor 25/50(L) | CryoMajor 25/80(L) | CryoMajor 30/50(L) | CryoMajor 30/80(L) |
|-------------------------------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Maximum Storage Capacity | | | | | | |
| No. of Canister | | 6 | 6 | 6 | 6 | 6 |
| No. of Straws (1-level Canister) | 0.5ml | 2244 | 792 | 2244 | 792 | 2244 |
| | 0.25ml | 5022 | 1788 | 5022 | 1788 | 5022 |
| No. of Straws (2-level Canister) | 0.5ml | 3624 | 1284 | 3624 | 1284 | 3624 |
| | 0.25ml | 8460 | 2832 | 8460 | 2832 | 8460 |
| Performance | | | | | | |
| Liquid Nitrogen Capacity (L) | | 20 | 25 | 25 | 31.5 | 31.5 |
| Static Evaporation (L/day) | | 0.21 | 0.12 | 0.21 | 0.12 | 0.21 |
| Static Holdover time(Day) | | 95 | 208 | 119 | 254 | 147 |
| Dimensions | | | | | | |
| Neck Opening (mm) | | 80 | 50 | 80 | 50 | 80 |
| Overall Height (mm) | | 676 | 700 | 705 | 706 | 710 |
| External Diameter (mm) | | 394 | 394 | 394 | 462 | 462 |
| Canister External Diameter (mm) | | 63 | 38 | 63 | 38 | 63 |
| Canister Height (mm) | | 120/276 | 120/276 | 120/276 | 120/276 | 120/276 |
| Weight Empty (kg) | | 9.5 | 10.7 | 10.9 | 12.9 | 13.1 |
| Weight Liquid Full (kg) | | 22.3 | 26.4 | 26.4 | 31.7 | 31.7 |

| Model | | CryoMajor 30/125(L) | CryoMajor 35/50(L) | CryoMajor35/125T(L) | CryoMajor47/127T(L) | CryoMajor50B/50(L) | CryoMajor50B/125(L) |
|-------------------------------------|--------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|
| Maximum Storage Capacity | | | | | | | |
| No. of Canister | | 6 | 6 | 10 | 10 | 6 | 6 |
| No. of Straws (1-level Canister) | 0.5ml | 5124 | 792 | 5124 | 4310 | 792 | 5124 |
| | 0.25ml | 11952 | 1788 | 11952 | 10320 | 1788 | 11952 |
| No. of Straws (2-level Canister) | 0.5ml | 9048 | 1284 | 9048 | 8200 | 1284 | 9048 |
| | 0.25ml | 19944 | 2832 | 19944 | 17810 | 2832 | 19944 |
| Performance | | | | | | | |
| Liquid Nitrogen Capacity (L) | | 31.5 | 35.5 | 35.5 | 47 | 50 | 50 |
| Static Evaporation (L/day) | | 0.35 | 0.12 | 0.36 | 0.36 | 0.23 | 0.45 |
| Static Holdover time(Day) | | 90 | 286 | 97 | 130 | 213 | 110 |
| Dimensions | | | | | | | |
| Neck Opening (mm) | | 125 | 50 | 125 | 127 | 50 | 125 |
| Overall Height (mm) | | 705 | 750 | 740 | 718 | 811 | 818 |
| External Diameter (mm) | | 462 | 462 | 55 | 508 | 462 | 462 |
| Canister External Diameter (mm) | | 38 | 70 | 97 | 72 | 63 | 97 |
| Canister Height (mm) | | 120/276 | 120/276 | 120/276 | 120/276 | 120/276 | 120/276 |
| Weight Empty (kg) | | 12.9 | 14.2 | 14.8 | 15 | 15.2 | 15.4 |
| Weight Liquid Full(kg) | | 38.7 | 35.0 | 43.31 | 53.54 | 55.4 | 56.2 |

Remark:

1. Model number end without "L" are supplied with 120ml length canister. One layer of straws can be loaded.
2. Model number end with "L" are supplied with 276ml length canister. Two layers of straws can be loaded.
3. For example, CryoMajor30/50 is supplied with canister height 120mm, while CryoMajor 30/50L is supplied with canister height 276mm.

New Products and Canes

Technical Parameters



(CryoMajor 35/125T)

CryoMajor series will be also used to store 0.5ML-5ML vials with cane. The storage quantity shown in the table below:

| Vials Model | Length 120mm, Diameter 38mm (50 neck opening) | | | | Length 276mm, Diameter 38mm (50 neck opening) | | | |
|-------------|---|-----------------------|---------------------------|-----------------------|---|-----------------------|---------------------------|-----------------------|
| | Number of Cane/ Canister | Number of Vials/ Cane | Number of Vials/ Canister | Number of Vials/ Tank | Number of Cane/ Canister | Number of Vials/ Cane | Number of Vials/ Canister | Number of Vials/ Tank |
| 0.5ml | 3 | 3 | 9 | 54 | 3 | 6 | 18 | 108 |
| 1.5ml | 3 | 3 | 9 | 54 | 3 | 6 | 18 | 108 |
| 2ml | 3 | 3 | 9 | 54 | 3 | 6 | 18 | 108 |
| 3ml | 3 | 3 | 9 | 54 | 3 | 6 | 18 | 108 |
| 5ml | 3 | 1 | 3 | 18 | 3 | 3 | 9 | 54 |

| Vials Model | Length 120mm, Diameter 63mm (80 neck opening) | | | | Length 276mm, Diameter 63mm (80 neck opening) | | | |
|-------------|---|-----------------------|---------------------------|-----------------------|---|-----------------------|---------------------------|-----------------------|
| | Number of Cane/ Canister | Number of Vials/ Cane | Number of Vials/ Canister | Number of Vials/ Tank | Number of Cane/ Canister | Number of Vials/ Cane | Number of Vials/ Canister | Number of Vials/ Tank |
| 0.5ml | 11 | 3 | 33 | 198 | 11 | 6 | 66 | 396 |
| 1.5ml | 11 | 3 | 33 | 198 | 11 | 6 | 66 | 396 |
| 2ml | 11 | 3 | 33 | 198 | 11 | 6 | 66 | 396 |
| 3ml | 11 | 3 | 33 | 198 | 11 | 6 | 66 | 396 |
| 5ml | 11 | 1 | 11 | 66 | 11 | 3 | 33 | 198 |

| Vials Model | Length 120mm, Diameter 97mm (125 neck opening) | | | | Length 276mm, Diameter 97mm (125 neck opening) | | | |
|-------------|--|-----------------------|---------------------------|-----------------------|--|-----------------------|---------------------------|-----------------------|
| | Number of Cane/ Canister | Number of Vials/ Cane | Number of Vials/ Canister | Number of Vials/ Tank | Number of Cane/ Canister | Number of Vials/ Cane | Number of Vials/ Canister | Number of Vials/ Tank |
| 0.5ml | 27 | 3 | 81 | 486 | 27 | 6 | 162 | 972 |
| 1.5ml | 27 | 3 | 81 | 486 | 27 | 6 | 162 | 972 |
| 2ml | 27 | 3 | 81 | 486 | 27 | 6 | 162 | 972 |
| 3ml | 27 | 3 | 81 | 486 | 27 | 6 | 162 | 972 |
| 5ml | 27 | 1 | 27 | 162 | 27 | 3 | 81 | 486 |

Introduction

CryoTrans series is designed for storage and short-distance transportation of small amount of liquid nitrogen. It is equipped with rubber protection rings and prefixed bottom pad for safety. Stainless steel roller base is optional for convenient transportation. Cryo Trans series is widely used in animal husbandry and laboratories.

Key Features

- 1 Strong, lightweight aluminum construction
- 2 Low liquid nitrogen evaporation
- 3 Special liquid nitrogen transportation design
- 4 CE Certificate
- 5 5-year vacuum warranty

Important Accessories

1. Liquid nitrogen level ruler
2. Roller base.



Technical Parameters

| Model | CryoTrans 3 | CryoTrans 6 | CryoTrans 10 | CryoTrans 20 | CryoTrans 30 | CryoTrans 35 | CryoTrans 50 |
|---------------------------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Performance | | | | | | | |
| Capacity (L) | 3 | 6 | 10 | 20 | 30 | 35 | 50 |
| Neck Diameter (mm) | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Static Evaporation Rate (L/day) | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.23 |
| Unit Dimensions | | | | | | | |
| Overall Height (mm) | 435 | 482 | 552 | 672 | 706 | 750 | 811 |
| External Diameter (mm) | 223 | 300 | 300 | 394 | 462 | 462 | 462 |
| Weight Empty (KG) | 3.1 | 4.8 | 5.9 | 10.1 | 13.3 | 14.4 | 15.4 |
| Weight Full (KG) | 5.56 | 9.72 | 14.1 | 25.9 | 37.5 | 42.9 | 56.4 |

CryoTrans series



CryoCarrier series

Introduction

CryoCarrier series is dry shipper containers. It is designed for biology, livestock breeding, research and medical fields and enables the biological samples, straws, cryovials or blood bags to transport below -150 °C environment. There is liquid nitrogen absorbent materials placed in the inner tank, which avoids the risk of outflow of liquid nitrogen. The CryoCarrier dry shipper meets the IATA and protect your valuable samples in safe conditions for both users and transporters during transportation.

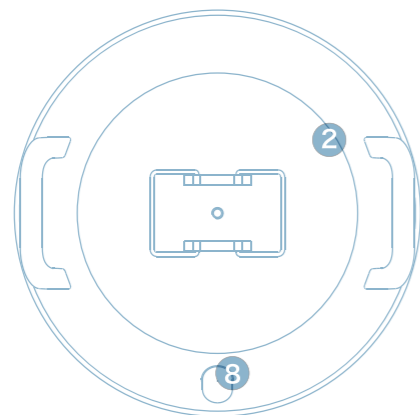
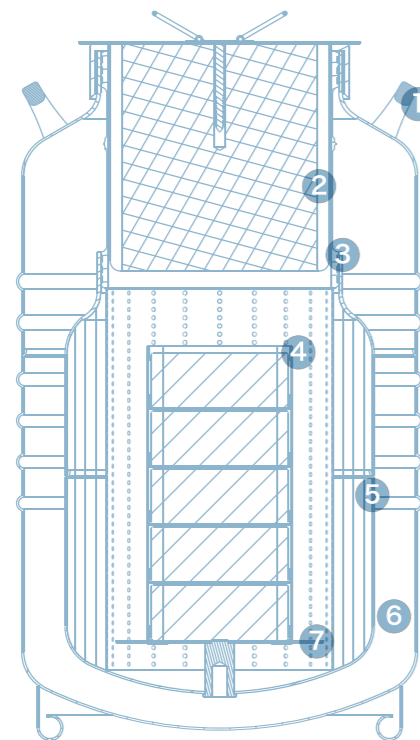
Key Features

- 1 Vapor phase cryogenic storage
- 2 Robust and durable aluminum construction
- 3 Lockable lids
- 4 No spillage of liquid nitrogen
- 5 Available for biological samples straws, cryovials or blood bags
- 6 3 years vacuum warranty



Advantages

- 1 Reliable absorption materials, rapid absorption of liquid N2
- 2 Meet the standard of IATA (The international Transport Association)
- 3 Excellent products construction and superior vacuum performance to ensures the maximum storage time
- 4 Unique stainless steel screen construction ensures samples storage space clean
- 5 All models optional equipped with liquid level monitor



1. Handles
2. Cap Plug
3. Neck Tube
4. Canister
5. Liquid Nitrogen Absorption Layer
6. Vacuum Jacket
7. Stage
8. Vacuum Sealing Joint

Technical Parameters

| Model | | CryoCarrier 3 | CryoCarrier 5 | CryoCarrier 8 | CryoCarrier 10 | CryoCarrier 15 | CryoCarrier 20 | CryoCarrier 25 |
|---------------------------------|---------------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|
| Maximum Storage Capacity | | | | | | | | |
| Straws | Number of Canister | 1 | 1 | 1 | 1 | — | — | 1 |
| | Number of Straws (0.5ml) | 132 | 214 | 820 | 1508 | — | — | — |
| | Number of Straws (0.25ml) | 298 | 472 | 1780 | 3324 | — | — | — |
| Vials | No. of Rack | — | — | — | 1 | 1 | 1 | 1 |
| | Layer of Rack | — | — | — | 4 | 3 | 4 | 5 |
| | 1.2ml/2ml Vials | — | — | — | 100 | 300 | 400 | 500 |
| Blood Bags (25ml) | No. of Rack | — | — | — | 1 | 1 | 1 | 1 |
| | Layer of Rack | — | — | — | 2 | 1 | 2 | 3 |
| | Number of 25ml bags | — | — | — | 6 | 15 | 30 | 45 |
| Blood Bags (50ml) | No. of Rack | — | — | — | 1 | 1 | 1 | 1 |
| | Layer of Rack | — | — | — | 1 | 1 | 1 | 2 |
| | Number of 50ml bags | — | — | — | 3 | 15 | 15 | 30 |

| Performance | | | | | | | |
|---------------------------------|------|------|------|------|------|------|------|
| Capacity (L) | 3 | 5 | 7.5 | 10 | 15 | 20 | 25 |
| Static Evaporation Rate (L/Day) | 0.16 | 0.17 | 0.20 | 0.43 | 0.84 | 0.84 | 0.84 |
| Static holdover time (Day) | 20 | 31 | 37 | 23 | 18 | 25 | 29 |

| Dimensions | | | | | | | |
|------------------------|-----|-----|-----|-----|------|------|------|
| Neck Diameter (mm) | 50 | 50 | 80 | 125 | 216 | 216 | 216 |
| Overall Height (mm) | 428 | 495 | 487 | 555 | 580 | 660 | 678 |
| External Diameter (mm) | 223 | 223 | 300 | 300 | 394 | 394 | 394 |
| Canister Diameter (mm) | 38 | 38 | 63 | 97 | — | — | — |
| Canister Height (mm) | 120 | 276 | 120 | 276 | — | — | — |
| Weight Empty (KG) | 3.2 | 3.4 | 4.9 | 5.9 | 8.5 | 9.7 | 11.2 |
| Weight Full (KG) | 4.3 | 6.5 | 7.3 | 8.7 | 13.8 | 17.1 | 19.0 |

★ Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the condition of container usage, atmospheric conditions, and manufacturing tolerances.

★★ Normal Working Duration is just an arbitrary reference, applying to estimate container performance under normal operating conditions. Actual working time may vary due to atmospheric conditions, container usage history, manufacturing tolerances and individual patterns of usage. Divide static holding days by 1.6, and you get empirical value.

Introduction

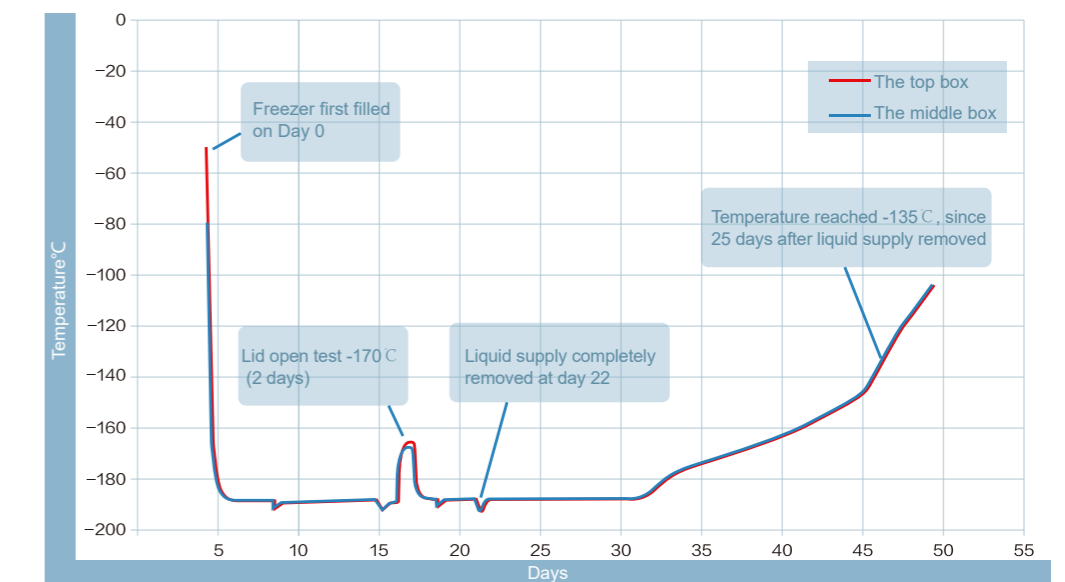
CryoMatrix series breeder tanks provide the user with a fully automatic, safe and reliable cryogenic liquid nitrogen storage system. The sample can be stored either in liquid phase (-196°C) or vapor phase (-180°C). Microcomputer touch control system CryMonitor 3000 provides convenience and security.

Cryomatrix series adopt advanced technology and super vacuum thermal insulation technology to assure the safety of the barrier-free sample storage and good properties uniform temperature and characteristics of the minimum consumption of liquid nitrogen. Even if it is gas storage, the whole storage area temperature difference is less than 10°C.

Key Features

- 1 Dry sample storage
- 2 -190°C at top
- 3 Maximum capacity of liquid nitrogen storage capacity below rotating tray
- 4 One-piece folding stage
- 5 Automatically liquid nitrogen supply
- 6 Storage a variety of blood bags
- 7 De-Fog and liquid nitrogen splash proof
- 8 5 years vacuum warranty
- 9 CE certification

Temperature Test Graph



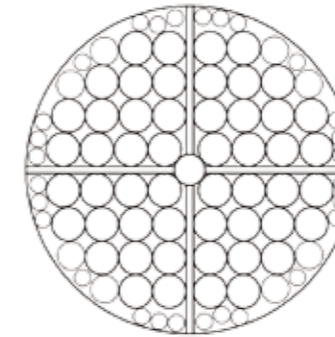
CryoMatrix series

CryoMonitor 3000 Intelligent Control System

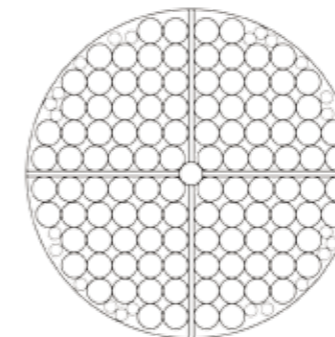


- | | |
|--|---|
| 1 Automatically filling liquid nitrogen | 8 Self-diagnosis |
| 2 Liquid nitrogen splash proof structure | 9 User authority setting |
| 3 Triple solenoid valve structure | 10 Run/alarm parameters setting |
| 4 Platinum resistance temperature sensor | 11 Abnormal alarm to reminder |
| 5 Differential pressure type liquid level sensor | 12 Standby power and UPS power |
| 6 Recording temperature and alarm data, automatically | 13 Cloud storage database center(optional) |
| 7 Remote monitoring | |

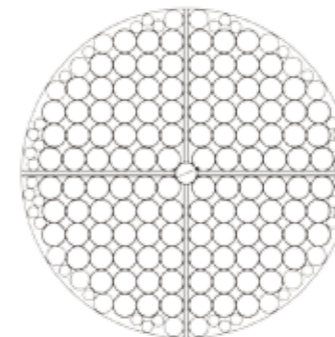
RackLayouts



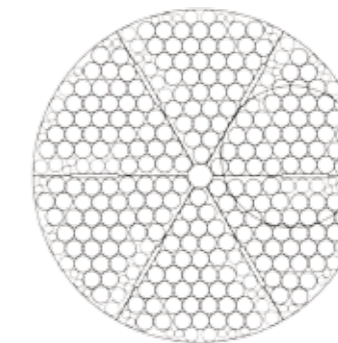
CryoMatrix 13k/19K



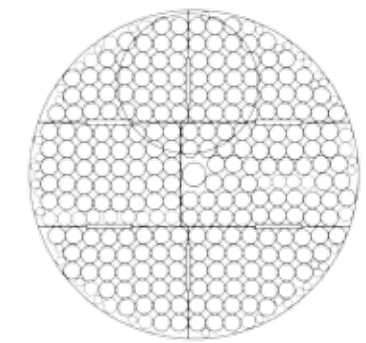
CryoMatrix 26k/36K



CryoMatrix 43k/50K



CryoMatrix 59k/76K/88K



CryoMatrix 95K



Technical Parameters

Model CryoMatrix 13K CryoMatrix 19K CryoMatrix 26K CryoMatrix 36K CryoMatrix 43K

| Maximum storage capacity | | | | | |
|----------------------------|--------|--------|--------|--------|--------|
| Number of Straws (0.5ml) | 111312 | 131220 | 203040 | 253800 | 304920 |
| Number of Straws (0.25ml) | 254592 | 301120 | 468544 | 585680 | 699360 |
| Number of Canister (Φ76) | 52 | 52 | 112 | 112 | 120 |
| Number of Canister (Φ63) | 8 | 8 | 0 | 0 | 16 |
| Number of Canister (Φ38) | 28 | 12 | 24 | 24 | 40 |
| Number of Canister storey | 4 | 5 | 4 | 5 | 5 |
| Canister storey Height(mm) | 135 | 135 | 135 | 135 | 135 |

| Performance | | | | | |
|--|------|------|------|------|------|
| Liquid nitrogen capacity (L) (Liquid phase storage) | 350 | 460 | 587 | 783 | 890 |
| Liquid nitrogen capacity (L) (Vapor phase storage) | 55 | 55 | 80 | 80 | 135 |
| Static evaporation (%) | 1.55 | 1.45 | 1.35 | 1.25 | 0.85 |

| Unit Dimensions | | | | | |
|-------------------------------|------|------|------|------|------|
| Neck Diameter (mm) | 326 | 326 | 445 | 445 | 465 |
| Overall Height (mm) | 1326 | 1558 | 1321 | 1591 | 1559 |
| Operated Height (mm) | 1263 | 1212 | 1266 | 1216 | 980 |
| Outside Diameter (mm) | 875 | 875 | 1104 | 1104 | 1190 |
| Door Width Requirement** (mm) | 895 | 895 | 1124 | 1124 | 1210 |
| Weight Empty (kg) | 219 | 277 | 328 | 372 | 441 |
| Weight Liquid Full* (kg) | 502 | 649 | 802 | 1005 | 1160 |

★Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the condition of container usage, atmospheric conditions and manufacturing tolerances.

Technical Parameters

Model CryoMatrix 50K CryoMatrix 59K CryoMatrix 76K CryoMatrix 95K CryoMatrix128K

| Maximum storage capacity | | | | | |
|----------------------------|--------|---------|---------|---------|---------|
| Number of Straws (0.5ml) | 365904 | 480168 | 600210 | 671166 | 919548 |
| Number of Straws (0.25ml) | 839232 | 1101000 | 1376250 | 1543884 | 2119096 |
| Number of Canister (Φ76) | 120 | 234 | 234 | 232 | 282 |
| Number of Canister (Φ63) | 16 | 42 | 42 | 24 | 16 |
| Number of Canister (Φ38) | 40 | 54 | 54 | 39 | 44 |
| Number of Canister storey | 6 | 4 | 5 | 6 | 7 |
| Canister storey Height(mm) | 135 | 135 | 135 | 135 | 135 |

| Performance | | | | | |
|--|------|------|------|------|------|
| Liquid nitrogen capacity (L) (Liquid phase storage) | 1014 | 1340 | 1660 | 1880 | 2270 |
| Liquid nitrogen capacity (L) (Vapor phase storage) | 135 | 265 | 300 | 320 | 262 |
| Static evaporation (%) | 0.82 | 0.95 | 0.75 | 0.75 | 0.65 |

| Unit Dimensions | | | | | |
|-------------------------------|------|------|------|------|------|
| Neck Diameter (mm) | 465 | 635 | 635 | 635 | 635 |
| Overall Height (mm) | 1704 | 1398 | 1589 | 1883 | 1679 |
| Operated Height (mm) | 950 | 997 | 967 | 1097 | 1120 |
| Outside Diameter (mm) | 1190 | 1565 | 1565 | 1565 | 1565 |
| Door Width Requirement** (mm) | 1210 | 1585 | 1585 | 1585 | 1705 |
| Weight Empty (kg) | 495 | 851 | 914 | 985 | 920 |
| Weight Liquid Full* (kg) | 1314 | 1934 | 2255 | 2504 | 2754 |

★Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the condition of container usage, atmospheric conditions and manufacturing tolerances.

