

STATEBOURNE

cryogenics

Biorack Series

High Thermal Efficiency

5 Year Vacuum Warranty

Cryobox Storage

Goblet Storage

Straw Storage

5ml Tubes

Falcon Tubes

96 Well Plates

Blood Bags

Cord Blood Storage

Cane Storage

Liquid or Vapour

MDD 93/42/EEC Compliant

Suitable for IVF Samples

Durability

Data Logging

Auto Fill

Lockable Lid

Vial Storage



*Cryogenic innovation & technology
you can trust...*

Biorack Series

The Biorack series of refrigerators provide highly efficient storage of bulk quantities of cryovials
Racking systems housed within these ultra-low loss cryogenic refrigerators enable users to store large quantities of Biomedical material over long periods of time, safe in the knowledge that storage temperatures even in the vapour phase, will be below -190°C

Advanced super insulation and ultra high vacuum techniques allow storage times between refills of up to 6 months

The Biorack Series are available in four sizes, with 750, 3000, 4800 and 6000 x 2ml Cryovial capacities
All Bioracks are supplied complete with racks and polycarbonate cryoboxes



Temperature Logger Alarm Unit



Part Number 9701321

Providing continuous dependable monitoring of the temperature within the refrigerator, the CryoGuard data logger is the ideal choice for users who want to record sample temperature over long periods

The unit has a 3 way audible alarm for:

- Low LN2 Level
- High temperature
- Low battery power

Cryoguard

All Biorack Series units are available with an optional Cryoguard low level alarm, this fitted together with an alarm plug can be calibrated for both Liquid and Vapour phase low level alarm.
(Alarm plugs supplied Free when the Biorack and Alarm is ordered together.)

Part Number 8602622



Product Features

- 5 YEAR VACUUM WARRANTY
- 4 models from 750 to 6000 cryovial capacity
- Durable aluminium construction
- Space saving for storage of IVF samples
- Ultra-low evaporative losses
- Compatible with all major cryobox brands
- Heavy duty lockable enclosure offers excellent security
- Liquid or vapour phase option available
- Temperature data-logging device available
- Storage of 96 well plates, straws, 5ml tubes, blood bags, canes and cord blood bags

CE
93/42/EC

Technical Data

| MODEL | Biorack 750 * | Biorack 3000 | Biorack 4800 | Biorack 6000 |
|--------------------------------------|--|--|--|--|
| PART NUMBER | 9902132 | 9902149 | 9902154 | 9902144 |
| | INCLUDES 5 RACKS & 30 5X5 CRYOBOXES | INCLUDES 6 RACKS & 30 10X10 CRYOBOXES | INCLUDES 6 RACKS & 48 10X10 CRYOBOXES | INCLUDES 6 RACKS & 60 10X10 CRYOBOXES |
| LN2 Capacity (litres) liquid phase | 35 | 85 | 131 | 160 |
| LN2 Capacity (litres) vapour phase | 14 | 25 | 25 | 25 |
| Evaporation Rate (litres/day) | 0.30 | 0.63 | 0.63 | 0.63 |
| Static Holding Time (days) | 117 ¹ | 135 ¹ | 208 ¹ | 254 ¹ |
| Weight Empty (Kg) | 19 | 42 | 46 | 64 |
| Weight Full (kg) | 47 | 110 | 152 | 193 |
| Neck diameter (mm) | 120 | 216 | 216 | 216 |
| Overall Height (mm) | 747 | 738 | 913 | 1027 |
| Overall Diameter (mm) | 480 | 646 | 646 | 648 |
| Total 2ml Cryovial Capacity | 750 | 3000 | 4800 | 6000 |
| Cryobox Format | 5x5 | 10x10 | 10x10 | 10x10 |
| Roller Base Part Number | 9902112 | 9902147 | 9902147 | 9902147 |
| Battery Cryoguard Part Number | 8602622 | 8602622 | 8602622 | 8602622 |
| Cryoguard Mains adapter Part Numbers | 8602623 | 8602623 | 8602623 | 8602623 |
| Temperature Logger Part Number | 9701321 | 9701321 | 9701321 | 9701321 |

Note: ¹Working times will vary according to container usage

Add 99mm to the height if you include a roller base

Autofill with Cryostor option



The Autofill accessory option is particularly useful for the long-term storage of samples within vapour phase environments

The system works by continuously monitoring the LN2 within the Biorack and topping up the unit when natural evaporation causes the level to fall below a safe set-point, vital for the long term viability of the material being stored

This method is less economical in terms of LN2 consumption but provides the user with the ability to finely control the level within the unit over extended periods of up to 8 weeks between supply reservoir refills

Please note that the Autofill is designed to be used with the Cryostor Series and is available for the 3000,4800 and the 6000.

Liquid & Vapour Storage

Biorack range Liquid phase

If space is at a premium look at the Biorack range. The Bioracks can hold up to 72 Goblets (65mm) with a loss rate of less than 1 litre per day, making Bioracks a good space saving option for expanding laboratories. The Bioracks can also store 2ml cryovials, and racks can be mixed to make the best use of a vessel.

Biorack range vapour phase

Bioracks can store samples in vapour phase with a storage temperature of -185°C , and the Biorack design enables samples to have a built in reservoir of LN₂.

The Biorack 3,000 stores all goblets at one level, so there is no removal of any samples to access goblets at lower levels so excellent for Embryo storage. The Biorack 4800 can store cassettes in vapour phase, as well as 48 goblets, and the Biorack 6,000 can store up to 72 goblets (65mm).

For vapour phase storage it is recommended that a low level alarm is fitted.



Features

Autofill & Alarms



Biorack Autofill and Cryostor option (see next page) connected to Data logger low level alarm and autodialler.

Easy withdrawal



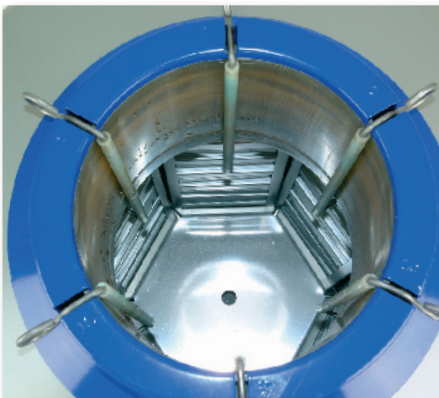
Quick, easy storage and withdrawal of racks, combined with exceptional holding times make the Biorack Series a leading choice.

Roller Base



All Biorack models have a roller base option for easy manoeuvrability.

Quick easy storage



All Biorack series feature extra-wide openings for easy sample storage, access and retrieval.

Alarm plug and standard neck plug WALL RACK




Biorack alarm plug and standard neck plug rack, fits easily onto wall and stops any damage to sensors whilst accessing samples.


Biorack 3000-4800-6000 Part No. 6401169

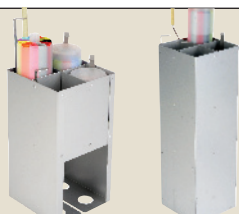
Biorack 750 Part No. 6401238





Individual rack storage part numbers


| | | | | |
|---|--------------------|---------------------|---------------------|---------------------|
| 2 ML Cryovials  | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
| | 5801564 | 5801250 | 5801525 | 5801236 |

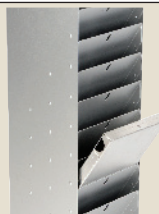
| | | | | |
|---|--------------------|---------------------|---------------------|---------------------|
| 5 ML Cryovials  | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
| | N/A | 5801428 | 5801527 | 5801426 |


| | | | | |
|--|--------------------|---------------------|---------------------|---------------------|
| Goblet Straw Storage Rack  | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
| | N/A | 5801639 | 5801725 | 5801723 |

















| | | | | |
|--|--------------------|---------------------|---------------------|---------------------|
| 50 MI FALCON TUBES  | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
| | N/A | 5801581 | 5801682 | 5801681 |

| | | | | |
|---|--------------------|---------------------|---------------------|---------------------|
| 96 Well Plates (127x85x52)  | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
| | N/A | 5801628 | 5801727 | 5801729 |

| | | | | |
|---|--------------------|---------------------|---------------------|---------------------|
| 25ML Cord Blood Bags  | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
| | N/A | 5801555 | 5801554 | 5801553 |

| | | | | |
|---|--------------------|---------------------|---------------------|---------------------|
| Blood Bags  | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
| | N/A | N/A | 5801566 | 5801487 |

| | | | | |
|--|--------------------|---------------------|---------------------|---------------------|
| Cane Storage  <p><small>Canes with sleeves = 15mm diameter</small></p> | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
| | N/A | 5801730 | 5801731 | N/A |

| MODEL | | Biorack 750 | Biorack 3000 | Biorack 4800 | Biorack 6000 |
|--|---|-------------|---------------|---------------|---------------|
| 2ml CRYOVIALS |  | 750 | 3000 | 4800 | 6000 |
| |  | 500 | 1800 | 3600 | 4800 |
| PART NUMBER | | 9902132 | 9902149 | 9902154 | 9902144 |
| 5ml CRYOVIALS |  | N/A | 972 | 1944 | 2430 |
| |  | N/A | 486 | 1458 | 1944 |
| PART NUMBER | | N/A | 9902149-5ml | 9902154-5ml | 9902144-5ml |
| 0.25cc STRAWS |  | N/A | 19680 | 59040 | 78720 |
| |  | N/A | 19680 | 39360 | 59040 |
| PART NUMBER | | N/A | 9902149-G | 9902154-G | 9902144-G |
| 0.5cc STRAWS |  | N/A | 8760 | 26280 | 35040 |
| |  | N/A | 8760 | 17520 | 26280 |
| PART NUMBER | | N/A | 9902149-G | 9902154-G | 9902144-G |
| *BLOOD BAGS |  | N/A | N/A | **60 | **96 |
| |  | N/A | N/A | **36 | **72 |
| PART NUMBER | | N/A | 9902149-BB | 9902154-BB | 9902144-BB |
| Pall 25mm CORD BLOOD BAGS |  | N/A | ***120 | ***240 | ***300 |
| |  | N/A | ***120 | ***180 | ***240 |
| PART NUMBER | | N/A | 9902149-CB | 9902154-CB | 9902144-CB |
| 50ml FALCON TUBES |  | N/A | 108 | On Request. | On Request. |
| |  | N/A | 108 | On Request. | On Request. |
| PART NUMBER | | N/A | 9902149-50MLF | 9902154-50MLF | 9902144-50MLF |
| CANE STORAGE <small>For 285mm canes inside 15mm plastic sleeves</small> |  | N/A | 480 | 480 | N/A |
| |  | N/A | 480 | 480 | N/A |
| PART NUMBER | | N/A | 9902149-15C | 9902154-15C | N/A |

* Based on bag size of 222mm x 130mm ** Dependent on volume of contents *** Based on cassette size 81mmH x 95mmW x 12mmD

 Vapour phase

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Liquid phase

