

**STATEBOURNE**

**cryogenics**

# *Biorack Series*

High Thermal Efficiency

5 Year Vacuum Warranty

Cryobox Storage

Goblet Storage

Liquid or Vapour

MDD 93/42/EEC Compliant

Suitable for IVF Samples

Durability

Data Logging

Auto Fill

Lockable Lid

Vial Storage

Straw Storage

5ml Tubes

Falcon Tubes

96 Well Plates

Blood Bags

Cord Blood 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



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



## Product Features

- 5 YEAR VACUUM WARRANTY
- 4 models from 750 to 6000 cryovial capacity
- Durable aluminium construction
- Storage of 96 well plates, straws, 5ml tubes, blood bags and cord blood bags
- 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 and cord blood bags



# 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.

## Technical Data

MODEL	Bio Rack 750 *	Bio Rack 3000	Bio Rack 4800	Bio Rack 6000
<b>PART NUMBER</b>	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)	35	85	131	160
Evaporation Rate (litres/day)	0.30	0.63	0.63	0.63
Static Holding Time (days)	117 <sup>1</sup>	135 <sup>1</sup>	208 <sup>1</sup>	254 <sup>1</sup>
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 Inc Mains adapter Part Numbers	8602622 8602623	8602622 8602623	8602622 8602623	8602622 8602623
Temperature Logger Part Number	9701321	9701321	9701321	9701321

Note: <sup>1</sup>Working times will vary according to container usage  
 \*The Autofill option is not available for the BioRack 750  
 Add 99mm to the height if you include a roller base

# 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  $-185^{\circ}\text{C}$ , and the Biorack design enables samples to have a built in reservoir of LN<sub>2</sub>.

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



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

### Easy withdrawal



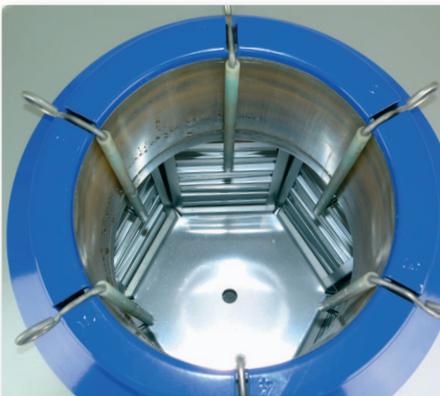
Quick, easy storage and withdrawal of racks, combined with exceptional holding times make the BioRack Series a leading choice.

### Roller Base



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

### Quick easy storage



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

### Alarm plug wall rack



Bio Rack alarm plug rack, fits easily onto wall and stops any damage to sensors whilst accessing samples.

### Neck plug wall rack



Bio Rack alarm plug rack. Can also be used with a standard neck plug.

## Various Rack Storage

### Supplied Racks



Supplied racks inc 2ml and 5ml cryovial storage in Cryoboxes.

### 50 ML Falcon Tubes



50 ml Falcon Tube storage.  
(3000 illustrated)

### Straw Storage



Straw storage including lifters.  
(3000 illustrated)

### 25 ML Cord Blood Bags



25 ML Cord blood bag storage  
(4800 illustrated)

### 96 Well Plates



96 well plate storage.  
(4800 illustrated)

### Straw Storage



Straw storage rack  
(6000 illustrated)

### Blood Bag Storage



Blood bag storage.  
(4800 illustrated)

### Straw Storage



In Place of the racks for storing cryoboxes, six special racks can be supplied, each rack holds four 67mm diameter canisters.

### 5 ML Cryoboxes



5 ml Cryoboxes.  
(4800 illustrated)

Please contact Statebourne to discuss your sample storage requirements.



# Biorack Series Cryobox Storage



## BioRack Sample Storage Capacities

MODEL		Bio Rack 750	Bio Rack 3000	Bio Rack 4800	Bio Rack 6000
2ml Cryovials		750	3000	4800	6000
		500	1800	3600	4800
5ml Cryovials		N/A	972	1944	2430
		N/A	486	1458	1944
0.25cc Straws		N/A	19680	59040	78720
		N/A	19680	39360	59040
0.5cc Straws		N/A	8760	26280	35040
		N/A	8760	17520	26280
*Blood Bags		N/A	N/A	**60	**96
		N/A	N/A	**36	**72
Pall 25mm Cord Blood Bags		N/A	***120	***240	***300
		N/A	***120	***180	***240
50ml Falcon Tubes		N/A	108	On Request.	On Request.
		N/A	108	On Request.	On Request.

= Liquid phase

\* 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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