



**Wolflabs**

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**STATEBOURNE**  
cryogenics

# *Biorack Series*

New for 2011  
Biorack 4800

Liquid and Vapour

High Thermal Efficiency

Goblet Storage

Cryobox Storage

Security

Auto Fill

5 Year Vacuum Warranty

MDD 93/42/EEC

Data Logging

Durability

Blood Bags



STATEBOURNE

# 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 an 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.



## Product Features

- 5 YEAR VACUUM WARRANTY
- 4 models from 750 to 6000 cryovial capacity.
- Strong, lightweight aluminium construction.
- High thermal efficiency
- 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



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.

## Technical Data

| MODEL                          | Bio Rack 750 *   | Bio Rack 3000    | Bio Rack 4800    | Bio Rack 6000    |
|--------------------------------|------------------|------------------|------------------|------------------|
| <b>PART NUMBER</b>             | <b>9902132</b>   | <b>9902149</b>   | <b>9902154</b>   | <b>9902144</b>   |
| 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  | 9702000          | 9702000          | 9702000          | 9702000          |
| Mains Cryoguard Part Number    | 9702041          | 9702041          | 9702041          | 9702041          |
| 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 Bio Rack 750

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

### Easy withdrawal



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

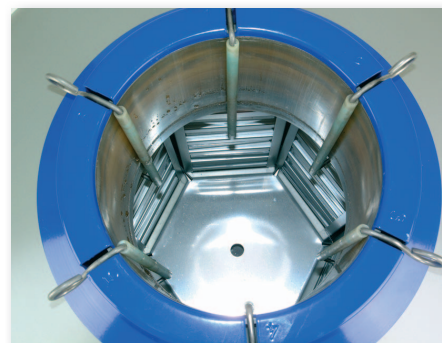
### Goblet storage for straws



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

## Cryobox storage

### Quick easy storage



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

## 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           | N/A           | N/A           |
|                           |  | N/A          | 108           | N/A           | N/A           |

 = 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