

STATEBOURNE
cryogenics

Biorack Series

Liquid and Vapour

High Thermal Efficiency

Goblet Storage

Cryobox Storage

Security

Auto Fill

5 Year Vacuum Warranty

MDD 93/42/EEC

Falcon tubes

Data Logging

Durability

Blood Bags



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, 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
- 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
PART NUMBER	9902132	9902149	9902154	9902144
LN2 Capacity (litres)	35	85	131	160
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 Inc Mains adapter Part Numbers	8602622 8602623	8602622 8602623	8602622 8602623	8602622 8602623
Temperature Logger Part Number	9701321	9701321	9701321	9701321

Note: ¹Working 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

Liquid & Vapour storage

Biorack range Liquid phase

If space is at a premium look at the Biorack range. The Bioracks can hold up to 98 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. 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.



Cryobox storage



Baxter bag storage.



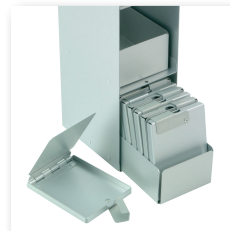
50 ml Falcon Tube storage.



Straw storage.



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



Cassette storage



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

Easy withdrawal



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

Roller Base



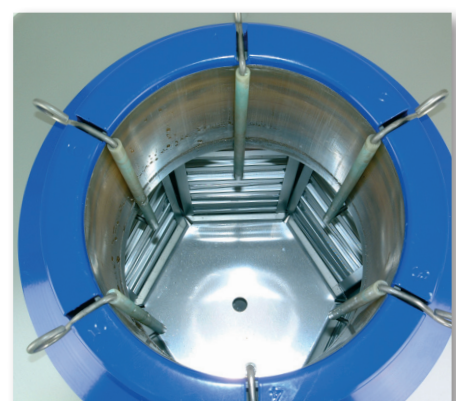
All BioRack models have a roller base option for easy manoeuvrability.

Autofill & Alarms



BioRack Autofill connected to Data logger, low level alarm and autodialler.

Quick easy storage



















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

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	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

Dealer Information.

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