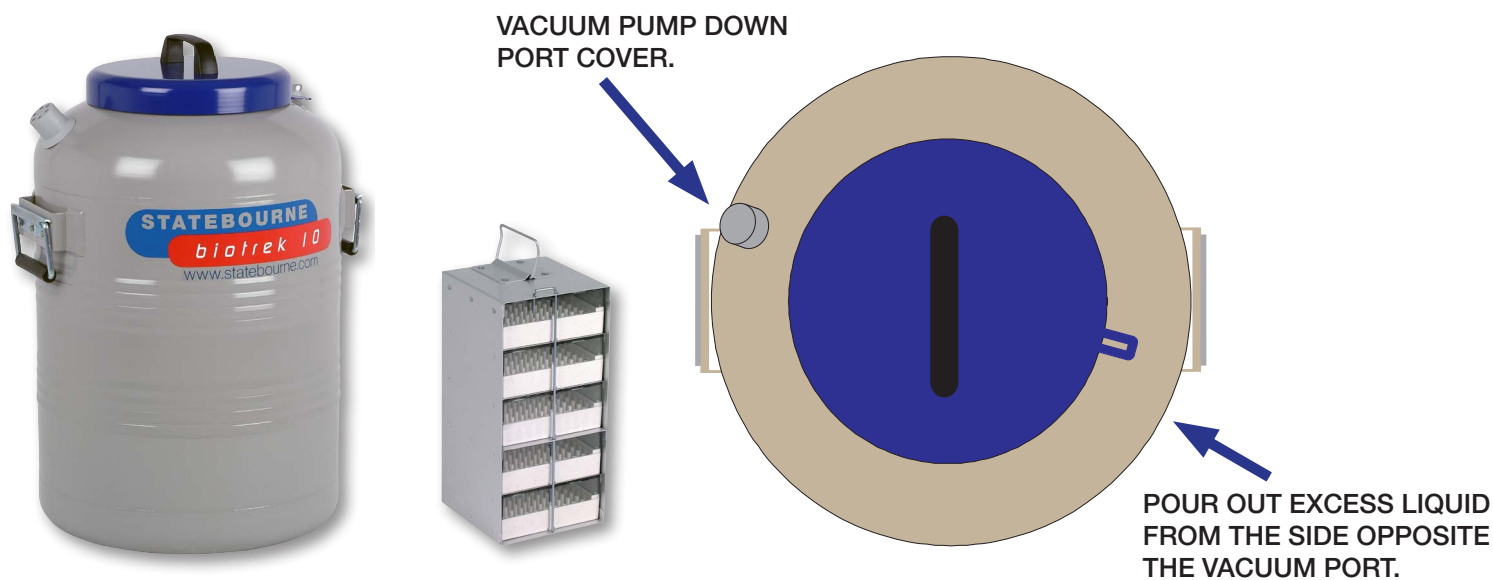


Operating instructions

BIOTREK 10



Safety

The wearing of a suitable pair of gloves is essential for day to day operations with liquefied gases. Heavy-duty leather or thermally insulated gloves or gauntlets are ideal for this purpose.

Clear visors and thermal aprons can be worn to protect the face and body from liquid splashes. Appropriate footwear should be worn at all times.

For further information on our range of safety clothing and equipment please contact us, at the address shown at the top of this page or visit our web site at www.statebourne.com

Use extreme care to prevent spilling and splashing during transfer and removal of storage contents and holders. Immediate medical attention should be sought for any frostbite injuries due to Liquid Nitrogen.

Nitrogen gas can deplete oxygen levels within confined unventilated areas, always consult an Expert or Health & Safety operative before attempting to operate equipment which contains liquid nitrogen as O2 deficiency monitoring equipment may also be required for safe operation.

Transport

Biotrek 10 vessels are designed to be transported, however care should be taken to avoid heavy physical shocks, tipping and rolling. Whilst a vessel which tips over will not lose its contents, the liquid nitrogen loss rate will rise.

General

If the unit is used with good care and the above instructions are followed, then it will give trouble-free operation. Please bear in mind that the unit is a vacuum vessel and should be treated with this in mind. If further information is required please do not hesitate to contact our sales department.

Operating instructions

Filling Instructions

As with any vacuum vessel, never overfill your Biotrek 10.

Filling a Biotrek 10 should take longer than a normal cryogenic container because of the retaining absorbent used.

To fill, simply remove the polystyrene neck plug and pour in liquid nitrogen using a suitable stainless steel pan or ladle, following the procedure given below.

Never use a pressure vessel to fill a Biotrek 10.

1. Fill to just below the bottom of the stainless steel neck with liquid nitrogen and leave to absorb for 1 hour, topping back up to the bottom of the neck during that period.
2. Empty the excess liquid nitrogen by inverting and pouring away after the hour. The liquid should be poured from the side of the neck opposite the vacuum pump down port (see diagram on front page). Disposal of liquid nitrogen should preferably be done outdoors on gravel or bare earth where it can evaporate without causing damage.
3. Your Biotrek 10 is now ready for use.

Technical Specifications

Model	Biotrek 10
Liquid capacity, litres	13
Static evaporation rate, litres/day	0.70
Static holding time, days	18
Field working time, days	11
Weight empty, Kg	16.5
Weight full, Kg	27
Overall diameter, mm	408
Overall height, mm	658
Neck diameter, mm	216
Internal dimensions, mm	215 dia. x 290 high
Number of canisters	5
Canister size, mm	73 dia. x 275 high
Total Vial capacity in canes	510 (2ml)
Total straw capacity (0.25cc)	8200
Total blood bag capacity	12 (approx.)
Cryobox storage	1 rack holding 5 cryoboxes (10x10)
Total straw capacity (0.25cc)	8200
Rack dimensions, mm	140w x142d x 286h
Total vial capacity in cryoboxes	500 (2ml)
Part No.	9915510