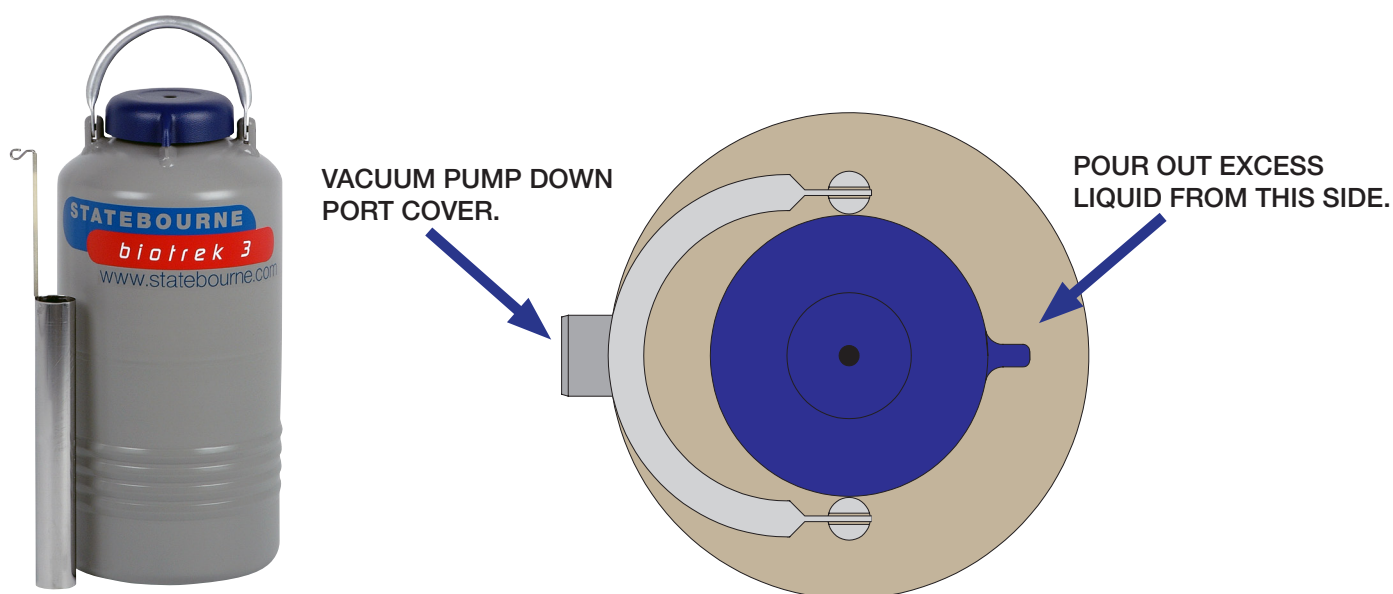


# Operating instructions

## Biotrek 3



## 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](http://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 3 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 3.

Filling a Biotrek 3 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 3.

1. Fill to just below the bottom of the fibre glass 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 3 is now ready for use.

## Technical Specifications

Model	Biotrek 3
Liquid capacity, litres	4.2
Static evaporation rate, litres/day	0.14
Static holding time, days	30
Field working time, days	18
Weight empty, Kg	5.1
Weight full, Kg	8.5
Overall diameter, mm	216
Overall height, mm	455
Neck diameter, mm	51
Internal dimensions, mm	47 dia. x 278 high
Number of canisters	1
Canister size, mm	38 dia. x 275 high
Total Vial capacity in canes	30 (2ml)
Total straw capacity (0.25cc)	400
Part No.	9903030