

Portable Water Laboratory

Portable testing laboratory designed to assess suitability of drinking water on-site, even in remote areas.

- Meets WHO and EU standards requirements
- Provides bacteriological and physico-chemical testing facilities

Bacteriological Testing

Uses the accepted method of membrane filtration and incubation of faecal and total coliforms as an indicator of the presence of other harmful bacteria and viruses. A manual vacuum filtration unit allows a measured sample to be drawn through a sterile membrane filter. The membrane is then placed on a growth pad soaked in media with a reusable, 55 mm diameter, aluminium petri dish and incubated in a portable incubator compartment. Up to 50 dishes can be incubated simultaneously in two compartments. Membrane pads and media, sufficient to carry out 200 tests, are provided. Instructions for field sterilisation of both filter and petri dishes are included.

Physico-Chemical Testing

Instruments and apparatus are provided enabling measurement of pH, ORP, temperature, conductivity, TDS, turbidity and colorimetric testing of chlorine (DPD), nitrate, ammonia and fluoride. A separate arsenic testing meter is also provided.

Portable Water Testing Laboratory

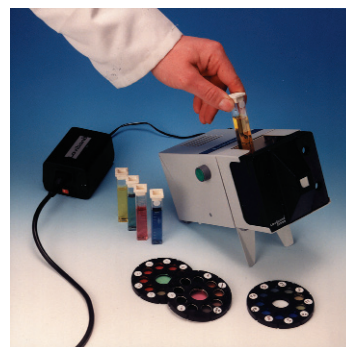
Comprising manual filtration unit, twin-chamber portable incubator with switchable +37°C or +44°C setting per chamber and LCD display (chamber accuracy $\pm 0.1^\circ\text{C}$). Also included are pH/mV/°C, conductivity/TDS, and turbidity meters, photometer with reagents for testing chlorine, nitrate, nitrite, ammonia and fluoride levels, Arsenator® digital arsenic tester and necessary equipment

and reagents to conduct up to 50 bacteriological tests simultaneously (200 total), all contained in a rugged aluminium case. Overall 600 x 400 x 300 mm w x d x h. Weight 20kg. The incubator requires a 110-220V 50/60Hz single phase supply or can be run from a 12V vehicle battery using the cigar lighter or crocodile clip attachments provided. A rechargeable battery is also included for temporary field use.

Product no	Description
11401/01	Portable test kit

Spares and accessories

Product no	Description
11401/02	Lauryl sulphate broth, pack of 200 tests
11401/03	Absorbent pads and membranes, pack of 200
11401/04	Coliform starter, pack of 200 tests
11401/05	Faecal streptococci starter pack, pack of 200 tests



Comparator

Comparator System

The Lovibond Comparator 2000 is a flexible, well established system for reliable and accurate determination of chemical concentrations in water samples by visual colorimetric analysis. Reagents are used to develop a colour in the sample proportional to the concentration of the chemical being measured. This colour is then matched against precalibrated glass standards mounted conveniently in a disc. The use of a reference sample enables compensation for turbid or tinted samples.

- Easy to use, producing dependable and repeatable results
- Minimum set-up and running costs
- Easy and inexpensive upgrades for additional test parameters
- May be used to test over 50 different water quality parameters
- Compact, easily portable and robust for multi-location testing
- Tableted reagents are quick and easy to use in the laboratory or in field
- May be used with turbid samples (unlike photometers)
- Benchtop and portable lighting units available to standardise test conditions

A new user will require :

One Lovibond 2000+ Comparator
One comparator disc for each parameter/range to be measured
Glass Cells to contain sample water (choose size according to the disc)
Reagent tablets for each parameter/range
Any other accessories to meet particular needs (see following pages)

Product No 11402/01

Lovibond 2000+ Comparator

This is the high quality instrument at the heart of the system. The integral ultrasonically sealed prism provides the user with overlapping sample and comparison fields, allowing enhanced colour discrimination and more sensitive colour matching, especially useful when measuring turbid samples. The cell compartment is adjustable to accept cells up to 40mm path length for greater sensitivity when comparing pale samples. The viewing windows are of polycarbonate with a scratch-proof coating for maximum durability