

POTAFLEX



Microbiological Water Testing Kit

Fully portable kit designed and developed in conjunction with the International Committee of the Red Cross (ICRC) and now in widespread use by their field teams all around the globe.

For the dedicated testing of microbiological parameters.

Unique design features allow a wide range of different bacteria to be tested for. Faecal & Total Coliforms/Faecal Streptococci/Pseudomonas/Salmonella.

Features a digital incubator with LCD display and variable temperature setting between 20 and 50°C - accuracy $\pm 0.1^{\circ}\text{C}$.

- Innovative incubator design with Flexi-Rack System (FRS), which allows a wide range of media options such as pre-prepared Nutri-Discs, pre-prepared Dipslides or traditional aluminium petri dishes
- Can accommodate 20 disposable Nutri-discs, up to 40 re-usable aluminium petri dishes, or up to 10 Dip slides. Or a combination of all three
- 12V DC power supply to incubator via an integral 230V AC mains adaptor/battery charger via vehicle lighter socket
- Supplied with Membrane Filtration Unit, Pistol Grip Vacuum Pump and consumables (media/pads/membranes) for 200 Coliform tests
- Comprehensive but simple to use operation manual included. All components housed in a single, lockable, water-proof aluminium carry case.

Wag-WE10050 Potaflex

(Contact Wagtech for full ordering specification)

(See pages 30-33 for accessories, spares & consumables)



Incubator



Flexi Rack System



Pre-prepared dip slide



Aluminium Petri Dishes



The Potaflex has been specially designed based upon the requirements of the international committee for the Red Cross (ICRC). This major Geneva based UN organisation is of course a significant organisation within countries suffering from poor quality water, especially during periods of conflict. Thus, any equipment and technology used within the ICRC programmes needs to be robust, durable, lightweight, simple to use and importantly, covering those essential parameters during rapid response situations.

Essentially, the Potaflex is a microbiological type kit, however, physico-chemical tests are easily carried out by simply adding appropriate instruments to the Potaflex carrying case. The concept of the Potaflex involved Jost Widemar, who originally was based within a technical capacity at ICRC's Geneva base. Jost wanted to test for faecal and total coliforms, but in addition, test for an important indicator of faecal contamination, faecal streptococci. Whilst Jost found the standard technique of membrane filtration useful, he commented that it was essential to be able to monitor water for bacteriological contamination using simpler and quicker techniques.

Thus, a 'flexi' system was created using the flexi rack system. This unique mechanism allows the employment of standard aluminium petri dishes (for faecal and total coliforms), Pre-prepared nutri dishes (for the analysis of faecal streptococci) and also dip slides (slides that can be simply dipped into the water, placed into the incubator and processed).

In addition to ICRC, many other UN organisations and NGOs are using Potaflex's around the world and in addition to the other tests already mentioned it is possible to also analyse for other parameters such as pseudomonas, cholera etc.