

# CHEMISTRY MODULE

1-4 CHANNEL WITH ELECTRONIC CONTROLLED DRY HEATING BATHS



## Description of Equipment

A variety of chemistry manifold types and combinations are offered. 1 to 4 channel chemistry bases accommodate high performance UV digestion, high and low temperature dry heating baths, distillation heads, Anidet components and cadmium columns.

All controls are housed and conveniently positioned away from liquids at the front of the case. A see through cover allows the operator to view the temperatures and indicator lamps.

Each base has a fixed number of acrylic manifold platens which have safety spillage galleries that couple to a common waste manifold.

Any overflow or leakage of liquid materials passes out through the rear of the unit. An acrylic cover is supplied with each base to protect the glassware.

## On-board Distillation

Compactness has always been an important feature for the SFA 2000 chemistry manifolds and systems generally, so assembling suitable distillation components to mount directly on to the SFA 2000 chemistry base is a natural progression.

The distillation head operates at temperatures up to 165°C controlled to  $\pm 0.1^\circ\text{C}$ . A stable temperature is reached within 5 minutes of start-up. The dry bath heater uses a standard glass coil (approximately 6ml volume) with a pre-set digital temperature control adjustable from 37°C. The manifold components are situated close to the distillation head. This creates operating convenience and considerable saving of space.

The unit avoids the use of "bulky" oil baths and lengthy glass connections associated with other analysers. When fitted to the 4-channel chemistry base the interconnection, for example, to a cyanide chemistry on an adjacent platen is simple.

As the distillation requires an air purge a mounted air regulator and precision flow meter are offered as standard equipment. The distillation water jacket is connected to a low flow water pump for cooling. Any spillage from the system flows along the deck gallery to a waste outlet at the rear of the unit.

An acrylic safety cover is supplied with each assembly. The distillation head can easily be removed from the mounting stem by slackening a single plastic knob on the universal clamp. The heating bath is accessed by lifting the manifold platen.

## Features

- Programmable electronic controlled thermostatted heating coils with fast, variable temperature control & dry heating bath (no oil or water baths)
- Auto alarm indicators for over-temperature and cut-out
- Removable platen for easy access to heating coils. All leaks run to waste
- Adjustable air injectors - air bubbles are optimized to give lower base-line noise than older systems
- No air compressor required
- Glassware internal diameter 1.6mm
- Optional auto-wash valve - switches to wash automatically at end of analysis
- Optional dual range manifolds
- Optional range changing valves for dual range analysis manifolds



## Ordering Information

Product Code	Description
BS00230	Chemistry Base, 1-Ch Basic Unit
BS00232	Chemistry Base, 3-Ch Basic Unit
BS00233	Chemistry Base, 4-Ch Basic Unit
BS01862	Distillation Head And Manifold

For details on flow injection systems, continuous flow analysers, data handling systems and specialised process control equipment please contact Burkard Scientific. The company reserves the right to make changes to the specification without notice.

