

AUTOSAMPLER 80+

80 POSITION DUAL OR SINGLE PROBE SAMPLER



Introduction

The Burkard 80 plus electronic carousel autosampler is an instrument that performs well with most types of chemical analyser in the modern laboratory.

The design has been styled to match the new Burkard flow analysis systems. Flexibility and reliability are the principles behind the new design. The sampler is micro-processor based and all electronic functions are achieved via the instrument keyboard or computer (optional).

Sequence prompts during programming and sampling are indicated on a liquid crystal display. The various parameters include sample and wash times, numbers of samples set, and start and end cup/tube positions.

The processor has battery backed memory into which details of the sample table and cup/tube sizes can be stored. The 80 plus tables accept a range of cup/tube sizes. Samples can be processed using the single, double or triple rows provided, and are programmable from the keyboard.

'80 plus' electronic

The system can be interfaced with the Burkard Microstream Data Processor allowing full automatic control.

Connected to the Microstream and with the Random Access option, samples can be taken from a cup/tube in any position. This is ideal for re-analysis of samples and for placing calibration material in large sample pots in reserved areas of the sample table.

The 80 plus may be interfaced with other systems such as the Burkard SFA2000, FIA2000 and SIA2000 Automatic Analysers.

The 80 plus electronic autosampler is the ultimate in simple operation and represents a significant advance.

Sampling flexibility

The standard sampling capacity is 100 positions. It provides 80 unknowns in two annular rings of 40 plus 20 additional positions for standards, drift controls, and blanks or 8 x 35ml cups.

10ml is the maximum cup/tube capacity of the standard tray and each is numbered alternately for quick loading and interchange. The standard tray can hold 0.5ml, 2ml or 4ml cups/tubes. Alternative tray options are also offered.

The batch may be increased during the run with the addition of more samples without interrupting the programme, a convenience facility that is available with the computer link or keypad.

Position 1 in the sampling cup line is selected by a home key and sensor which return the table rapidly and smoothly to the start position on completion of a run or whenever required by the operator.

The programme also allows the operator to select both the start and finish cup numbers, to abort a run at any time via the keyboard or computer, or to set a plateau.

Dual sampling option

Two probes mounted on the sampling arm permit dual sampling. The probes are adjustable for height within the probe arm collet and the maximum total movement of the probe spindle can be pre-programmed to allow for sampling from deeper cups or test-tubes.

Standard Table Capacities:

- 80 x 4ml Sample cup
- 100 x 4ml Sample cup
- 60 x 10ml PS Tube
- 160 x 4ml PS Tube
- 40 x 35ml PP or PS Pot Special table layouts to order

Mechanical Specification

Model type	80 plus electronic carousel
Preset timing	Sample and wash up to 999 secs
Sample cup/tube size	Up to 10ml capacity
Maximum table capacity	Up to 160
Cup size	Up to 35 ml capacity
Probe size (maximum 2)	0.036", 0.047", 0.062" (collet retention)
Programmable keypad entry	Displayed (LCD)
Computer interface	Battery backed memory
Mains voltage	110/240v 50-60Hz
Net weight	9kg
Packed weight	13kg
Overall dimensions	Depth: 15.5", Width: 13", Height: 8" (394mm x 330mm x 23mm)

Ordering Information

Product Code	Description
BS01078	Autosampler 80+

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.

