

1.0 Introduction

1.1 Product Description

The Cobra L/S Auto Sampler combines state-of-the-art component technology with easy-to-use operating features that meet routine as well as research level autosampling requirements.

The Cobra L/S is an all-electric, stepper motor driven autosampler providing rugged reliability and pinpoint injection accuracy. The syringe mechanism moves back-and-forth and in-and-out across the sample tray to access sample vials, multiple solvent vials, standards, etc.

Variable inject volumes, injection speed, needle dwell times, number of samples per vial, multiple methods per run, solvent flush, air gaging, dual column operation and a host of other autosampling options are all standard and easily programmed on the Cobra L/S's menu driven keypad.

The unit uses screw-cap or crimp-top septum vials and easily interfaces with your GC system with all the remote inputs/outputs—ready signal, injection mark, etc.—plus RS 232 for direct communication with an IBM or compatible personal computer. Mounting is easy and allows for quick changes between GC's if desired. Syringe/injector alignment is via the keypad. The control module mounts on either side of the autosampler for easy access.

1.2 Key Features

- Direct Syringe Injection: Uses 1.5µl - 100µl syringes for minimum sample volume and maximum flexibility.
- All Electric: No additional cost for gases.
- Priority Manual Sample feature allows the current analysis to be interrupted for RUSH samples.
- Variable Sample Fill Rate for viscous samples.
- Variable Injection Rate to optimize chromatography based on injector type and analytes of interest.
- Dual Injector Operation allows maximum productivity from GC with dual injectors and columns.
- Programmable Injector Alignment: No manual adjustments to align injection ports.
- Variable Dwell Time for hot needle injection techniques.