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TECHNOLOGY GROUP

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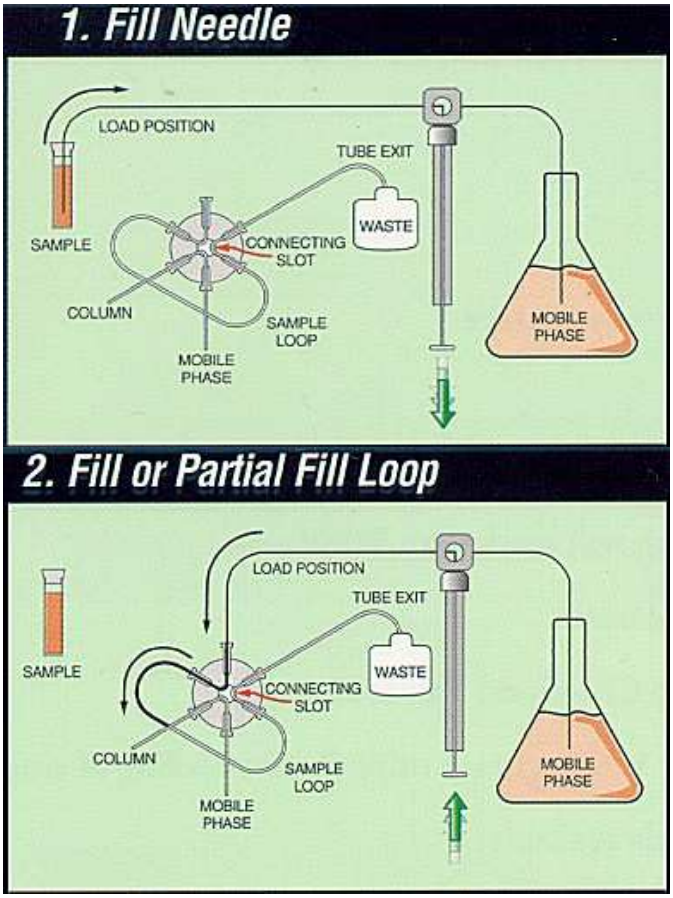
718AL VARIABLE VOLUME AUTOSAMPLER



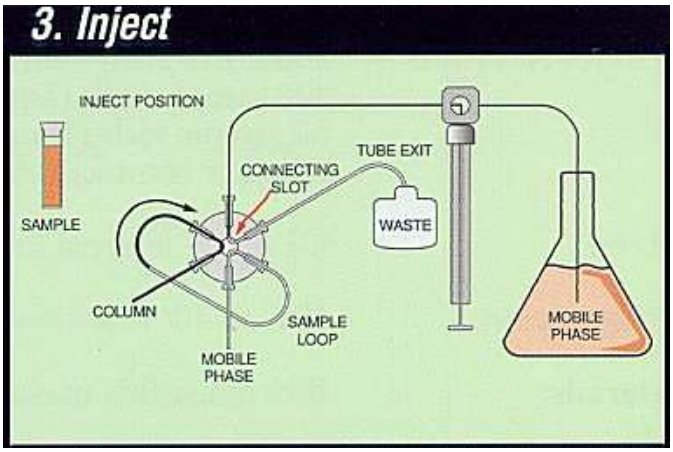
The Alcott Model 718AL autosampler is a syringe style, partial or full-loop injection autosampler that accepts 8mm, 12mm or 15mm vials or microplates. Three injection volume ranges are available by choosing a 50µL, 250µL or 2mL syringe. Designed for HPLC and LC/MS applications, the 718AL provides superior precision, accuracy, flexibility and reliability to your system.

OPERATION

Emulating a manual HPLC injection process, the 718AL has zero sample loss and can reproducibly make 1µL injections from micro inserts containing as little as 3µL of total sample. The diagram below illustrates the mechanical steps for injections with the Model 718AL.



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BENEFITS

- Accurate injection volumes from 0.06µL to 2mL using partial or full loop
- Internal and external needle rinse to eliminate carryover
- Optional vial trays available in three vial sizes plus microplates
- Automated dilutions, mixing, derivatizations and sample preparations
- Selectable needle depth
- Windows or EZChrom Elite 2.5 software control
- Simple to use and maintain
- System interface through RS-232, IEEE, Contact Closures and I^2C
- Customized software features available

718AL Specifications

Standard

Design Type:	Variable Volume, XYZ movement, syringe loading
Tray Capacities:	50 (15mm), 72 (12mm), or 128 (8mm) sample vials. Also, four 12 mm vials for standards or rinses
Injections Per Vial:	Unlimited
Rinse Strokes	0-99 for needle port and needle
Precision:	Less than or equal to ±0.5% RSD, for 10µL partial loop injections under ACI test conditions
Linearity:	$r^2 <= 0.99$
Carryover:	Less than 0.01% with rinse under ACI test conditions
Sample Waste:	None (or user selectable)
Keypad:	20 key, 4 line, 80 character LCD
Injection Parameters:	Partial or fixed loop, sample draw speed, delay time, needle depth, pre-injection volume, pre/post-air volume, rinse strokes, rinse rate, pre pierce
Syringe:	50, 250 (standard), or 2000 µL total volume
Valve:	Valco Cheminert C3 valve with 300µL loop and high speed actuator
Programming:	10 Methods, maximum 128 steps per method. Priority sampling
Communications:	Interfaces: RS-232-C, IEEE, I^2C Outputs:BCD, parallel printer port, inject market, 4 user selectable NO or NC Contact Closures with user selectable closure duration times.
Dimensions:	33cm H x 32cm W x 55cm D (13" x 13" x 21") Weight: 14 Kg (31 lbs.) Weight: 17 Kg (38 lbs.) Refrigerated
Wetted Materials:	Teflon, 316 stainless steel and nitronic 60
Voltage:	Autoselectable: 100-240 VAC ±10%, 47-63 Hz

Options

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Syringe & Trays:	50µL and 2mL volumes 128 sample vials (8mm), will work with WISP vials 50 sample vials (15mm) Adapter for microplate trays
Valves:	C2 or C4 internal loop Cheminert Valves available
Refrigeration:	4º C to 40º C within ±1° C accuracy using Peltier cooling of entire tray surface
Materials:	Biocompatible materials available
Other:	Valveless models available for FIA and other direct injection applications

Accessories

AutoChanger 31:	High Throughput microplate or vial tray changer that interfaces with the Model 718AL autosampler to allow unattended sampling for up to 31 microplates.
Column Switcher:	Column compartment designed to hold up to 6 columns. User selectable six position Valco valve can be controlled either manually or via RS-232 connection. Standard and heated versions available
Printer:	Small footprint thermal printer for recording autosampler methods.
3 Channel Degasser:	Three channel On-Line degassing system for minimizing residual dissolved gases during continuous operation.

Product Part Number

719/00000/01	Standard Model 718AL Variable Volume Autosampler
719/00000/01R	Refrigerated Model 718AL Variable Volume Autosampler
708/25921/00	Optional UV Cover. (recommended to be purchased with autosampler)
719/20801/00	Software upgrade for performing pre-column derivatization, linking autosampler methods, and with the addition of the Column Sitching Unit, selecting column temperature and one of six columns to be switched into the chromatograph flow path.
719/20802/00	Alcott Windows Control Software

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