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Waters 717 Plus

Waters 717 plus Autosampler combines reliability, versatility and low cost of ownership into a fully automated, easy-to-use instrument. The 717 plus Autosampler incorporates a highly reliable and extremely precise fluid path design that is versatile enough to use for all your methods and applications. Advanced automation capabilities make it easy to develop methods using automated derivatization techniques or to automatically add reference or diluents. The optional heating/ cooling module allows you to work with a wide range of samples, from heat-labile biological samples to viscous polymer samples, with exceptional precision and reliability.

Portable, Intelligent Sample processing

The intelligent sample processing capability of the 717 plus Autosampler meets a wide variety of sampling requirements. Whether it's for the processing of a large batch of samples with varying concentrations, the pre-treatment of a single sample or a batch of samples, or a specialized calibration routine, the 717 plus autosampler can be utilized as a dependable, high performance autosampler on any HPLC system in any lab.

The 717 plus Autosampler offers a state-of-art economical optional Heating/Cooling module that fits neatly into the back of the instrument – saving bench space and set-up time.

Advanced Automation and Easy-to-use Programming Features

The 717 plus Autosampler delivers programming capabilities with easy-to-use menu screens. An entire carousel of samples can be programmed using productivity-boosting features such as:

- Advanced automation routines for automatically adding, mixing, and injecting derivatized samples
- Random access to any vial for multi-method operation
- Innovative, programmable needle height control
- Auto Standards program for easy, unattended recalibration
- Stat program for priority sampling without stopping the run
- Easy-to-understand, built-in diagnostics
- Built-in IEEE-488 and RS-232 communication and optional BCD output
- Optional Heating/Cooling module for prolonged sample integrity

Microbore to Semi-preparative – The 717 plus Autosampler Delivers Versatility

The wide injection range of the 717 plus Autosampler makes it ideal for microbore, analytical and semi-preparative applications. You can easily optimize your method to take advantage of the built in capabilities as well as the optional syringes of the 717 plus Autosampler. The 717 plus Autosampler offers two different carousel sizes, giving you the flexibility to choose the optimal vial for your application. Additional configuration options let you optimize for inert or low delay volume operation.

Operational Specifications

Condition	Specification
Injection Volume Range	0.1 μ L to 2000 μ L in 0.1 μ L Increments
Linearity (1 to 100 μ L)	> 0.99 Coefficient of deviation
Carryover	< 0.1 %
Bandspreading	< 10 % Contribution for all solvent systems
Precision (typical, 5 to 50 μ L)	< 0.5 % RSD
System Operating Pressure	4500 psig (31027 Kpa) maximum continuous operating pressure 5000 psig (34475 Kpa) maximum surge for <30 seconds
Wash Flow, Solvent Rate	> 0.4 mL per injection
Minimum Sample Required	7 μ L using low volume inserts
Sample Compartment-Temperature Control (Optional Kit Required)	4 to 40 $^{\circ}$ C, + 3 $^{\circ}$ C, set in 1 $^{\circ}$ C Increments; max. time to reach set point 1.5 Hr. (*low setpoint is derated above 27 $^{\circ}$ C ambient temperature)
Advanced Sampling Routines	Priority Samples, Auto Standards, Auto Addition, and Auto Transfer

Condition	Specification
Wetted Surface Materials	316 Stainless Steel, Teflon, Glass, Fluoraloy-08 R, UHMWPE
Number of Sample Vials	1 to 96
Number of Injections	Programmable 1 to 99 injections per vial
Allowable Solvents	All standard LC solvents
Inlet Tubing to Injector	0.040 I.D. stainless steel
Outlet Tubing from Injector	0.009 I.D. stainless steel
Total Solvent Volume	836 μ L
Weight	63 lbs. (28.6 kg)
Dimensions	15" width x 16" height x 21" depth (38.10 x 40.64 x 53.34 cm)

Environmental Specifications

Condition	Specification
Operating Temperature Range	4 to 40 °C Note that the cooler performance is derated when the ambient operating temperature exceeds 27 °C
Relative Humidity	80%, noncondensing
Storage Temperature Range	-40 to 70 °C

Power Requirements

Voltage Range (VAC)*	Frequency (Hz)	Current
85 to 130	50 or 60 Hz	5 A maximum
185 to 265	50 or 60 Hz	4 A maximum

*The range is selected via the power entry module on the rear panel (see Section 2.3.2, Changing Voltage Configuration).

Communications

Condition	Specification
IEEE-488	24-pin female connector
RS-232	Modified modular phone connector
Event Inputs (2) Hold injection (2)	Each input has an internal pull-up resistor connected to +5 V and is protected to ± 30 V. A logic low is defined as an input voltage of between -30 V and 1.8 V. A logic high is defined as an input voltage of between 3.0 V and 30 V The minimum pulse width detectable is 30 milliseconds.
Event Output (1) Inject Start (2) Inject Stop (1)	Each output is a separate relay contact closure. Contact rating (permanent damage will result if exceeded): Maximum resistive load: 10 VA Maximum switching voltage: 40 Vdc Maximum switching current: 0.25 A Maximum carry current: 1.0 A



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