

# Autosampler L-7200

## Fulfills the Requirements of Routine Automatic HPLC



The new LaChrom Autosampler L-7200 incorporates all the properties required of a high-performance analytical system for the GLP laboratory. Different dosing techniques, high sample capacity, excellent reproducibility and digital communication with other LaChrom modules enable the Autosampler L-7200 to fulfil the highest reliability requirements in routine automatic HPLC. In addition, the L-7200 requires little space and is of modern design.

### Flexible Sample Dosing for Every Application

The LaChrom Autosampler L-7200 can be used for all important routine HPLC applications. Three different sample dosing techniques can be employed:

- Complete loop-filling for the highest degree of reproducibility.
- Partial loop-filling for the greatest degree of application flexibility.
- A special micro-dosing technique for injecting the smallest of volumes without loss of sample.

### High Degree of Operational Reliability

Automatic vial recognition prevents air being aspirated and injected into the column. Sample withdrawal can be adapted to the viscosity of the sample by adjusting the sample aspiration speed. A special washing facility for the needle prevents cross-contamination. The special Rheodyne valve used for sample injection produces reproducibility values of less than 0.5 % standard deviation for all

sample dosing methods. Optimised capillary tube paths and minimal volumes have made the Autosamplers ideal for narrow-bore applications.

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## Digital Communication and System Advantages

The LaChrom Autosamplers can be used both as stand-alone instruments and in conjunction with other LaChrom HPLC modules. The new high-performance data communication system D-Line enables intelligent and interference-free transfer of data between modules as well as inter-module control. The D-Line facility is also used to control both the Autosampler and the entire HPLC system via the D-7000 HPLC System Manager Software.

Additional functions like the print-out of operational parameters, the reliability report and the maintenance report enable GLP-conform work to be carried out, apart from facilitating maintenance and testing of the system.

## High Sample Capacity for Large Sample Series

The capacity of the instrument for 80 standard samples is sufficient for normal overnight routines. A simple LCD dialogue procedure enables individual parameters for each sample vial to be programmed. Priority

samples, however, can be run at any time simply by using the "Quick Sample" function to interrupt on-going analyses; and for these samples, new injection parameters can be selected.

### Technical Data

<b>Sample capacity</b>	80 standard vials, 1.5 ml
<b>Reproducibility</b>	CV < 0.5 % (10 µl)
<b>Dosing unit</b>	0.5 ml; 5 speeds
<b>Injection range</b>	0.5 to 400 µl with standard syringe in steps of 0.5 µl
<b>Injection valve</b>	6-way valve, electrically operated
<b>Sample dosing method</b>	Complete loop filling, partial loop filling, micro-dosing
<b>Inputs</b>	Start, stop, busy
<b>Outputs</b>	Start, stop, all stop
<b>Interface</b>	Digital data communication: D-Line
<b>Power supply</b>	110 - 240 V, 50 - 60 Hz, 150 VA
<b>Options:</b>	
<b>Syringe</b>	0.1 ml
<b>Racks for</b>	0.3, 4.0, 20 ml vials, Eppendorf vials, well plates, special vials (on request)
<b>Peltier cooled racks for</b>	1.5 ml vials, 1.5 + 4 ml vials, special rack inserts on request
<b>Water circulating racks for</b>	1.5 ml vials, 1.5 + 4 ml vials, special rack inserts on request

### Ordering Information

<b>Cat. No.</b>	Designation
<b>1.18900.0001</b>	Autosampler L-7200
<b>1.18081.0001</b>	Sample vials (1.5 ml), clear
<b>1.18084.0001</b>	Sample vials (1.5 ml), brown
<b>1.18082.0001</b>	Screw cap with hole for sample vial (cat.-no. 18081 and 18084)
<b>1.18083.0001</b>	Silicone PTFE septa for sample vials (cat.-no. 18081 and 18084)
<b>1.18086.0001</b>	PTFE septa for sample vials (cat.-no. 18081 and 18084)
<b>1.18187.0001</b>	Silicone PTFE septa (slotted) for sample vials (cat.-no. 18081 and 18084)
<b>1.18178.0001</b>	Micro-vial inserts for sample vials (cat.-no. 18081 and 18084), 50 µl
<b>1.18179.0001</b>	Springs for micro-glass inserts (cat.-no. 18178)
<b>1.18173.0001</b>	4 ml vials
<b>1.18174.0001</b>	Screw cap with hole for 4 ml vials (cat.-no. 18173)
<b>1.18175.0001</b>	Silicone PTFE septa (slotted) for 4 ml vials (cat.-no. 18173)

Technical data may be altered at any time without prior notice.  
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For more information please contact

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or your local Merck company.

<http://www.merck.de/chromatography>

LaChrom 2000: A development of Merck KGaA and Hitachi

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