

HPLC Autosampler S5300

The sample injection system to satisfy maximum requirements

- High sample capacity
- Excellent precision and linearity with variable injection volumes
- Optimum programmability to meet different application requirements
- Configurable from routine applications to multistage derivatisations
- Optional Peltier thermostating of the sample chamber



Description

The S5300 sample injection system allows you to use your HPLC system round the clock thus significantly increasing efficiency in your laboratory.

The S5300 sampler solves every task, whether simple and precise sample injection of sample series in the routine or changing injection volumes to determine trace contaminants alongside high analyte concentrations.

The high sample capacity, 120 samples, in two removable racks permits full use of the hours overnight, even with fast separations using modern columns. The robotic arm, programmable in the X-Y-Z directions, in combination with the finely staged syringe drive, is the guarantee for high precision. This design also allows for complex multistage derivatisation steps, whereby up to 3 reagents can be added and mixed.

Maximum Dosing Precision and Accuracy

Finely tuned stepper motors, together with Swiss precision syringes, guarantee maximum accuracy and precision of sample injection. Adjustable syringe speeds ensure the same high precision even for viscous samples.

Negligible cross-contamination

The washing of the complete injection system is carried out using a separate wash fluid, which washes the sample needle, injection port and the capillary tubing. Wash steps can be programmed to occur before and after injection as well as between derivatisation stages.

Optimum Configurations for your Requirements

Should you use the sampler only for automating a standard application then the basic version with loop filling will meet these needs completely. For changing applications with different injection volumes the variable volume version is available, whereby the standard syringe covers a range from 1 µl up to 120 µl. Additional syringes, sample loops and capillary sets are available to cover other volumes.

Thermostating required ?

The samples can be cooled or heated using the thermostat option, here the sample chamber is maintained at a temperature between +4 °C and +60 °C. The stainless steel sample racks ensure rapid heat transfer from the sample chamber to the sample vial.

Adapter for microplates available

In case you are using microplates in sample preparation, a microplate adapter for 96-well microplates is available. In this case, the sample capacity is raised to 192 samples.

flexibel

individuelle Abstimmung

mittelständisch

Goebelanalytik

Komplettlösungen HPLC & Photometrie

kompetent

 HPLC
 SOFTWARE
 PHOTOMETRIE

Specifications:

Sample racks

2 racks in stainless steel for up to 60 standard 1.5 ml sample vials each

Sample access

X-Y-Z robotic control of the sample needle using stepper motors

Dosing

Dosing syringe with finely tuned stepper motor

Available syringes

Standard: 500µl glass syringe, others available on request

Injection modes

Loop filling (in all versions)
 Partial loop filling (in versions with variable injection volumes)

Sample loops

Standard: 200 µl
 20 µl, 50 µl, 100 µl and 500 µl also available

Injection valve

6-port 2-position valve, electrically driven

Precision

RSD < 0.5% for 10 µl, variable injection volume (typically 0.25%)

Control

Via RS232 from the Geminix III Data System or via internal analysis and wash programs

Power Supply

110 - 240 V, 50 - 60 Hz

Dimensions, Weight

396 x 275 x 478 mm (W x H x D)
 16 kg

Ordering Information

78-290131

Basic Autosampler S5300
 2 x 60 samples in 2 racks, loop filling

78-290132

Autosampler S5300 Cool
 2 x 60 samples in 2 racks, loop filling, including sample thermostating

78-290133

Autosampler S5300 variable
 2 x 60 samples in 2 racks, variable injection volume

78-290134

Autosampler S5300 VC
 2 x 60 samples in 2 racks, variable injection volume, including sample thermostating

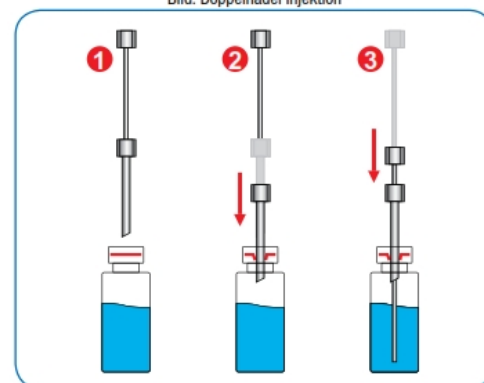
78-290135

Autosampler S5300 D
 2 x 60 samples in 2 racks, sample derivatisation

78-290136

Autosampler S5300 DC
 2 x 60 samples in 2 racks, with derivatization and sample thermostating

Bild: Doppelnadel Injektion



Goebel Instrumentelle Analytik GmbH

Mainburger Str. 8
 D-84072 Au i.d. Hallertau
 Germany

Tel.: +49 / (0) 87 52 / 86 708 - 0
 Fax: +49 / (0) 87 52 / 86 708 - 20
 WEB: www.goebel-analytik.de
 E-Mail: analytik@goebel-analytik.de