GERSTEL

Spec Sheet

SFS 3 option

The SFS 3 option is an option for the GERSTEL MultiPurpose Sampler MPS Liquid, MPS Robotic and MPS Robotic Pro. The option consists of a solvent station (SFS) and a solvent reservoir. It enables large quantities of different solvents to be used in a run and any surplus solvent to be collected in separate waste canisters.

The option offers up to 4 solvent positions for the withdrawal of the solvents and 2 waste positions for the disposal of surplus solvents. The solvent positions are connected to solvent flasks capable of holding a volume of 1 liter. This makes it possible to use large quantities of solvent in a run. The waste positions are connected to 2 waste canisters. That way, different solvents can be collected separately, depending on their chemical properties, so that they can subsequently be disposed of in an environmentally friendly and cost-effective manner.

The SFS 3 option can be used for LC-analysis and GC-analysis. It can also be used on a stand-alone basis as a workstation for sample preparation.

System configuration

- This applies to the SFS 3 option, with a serial number of 08199-00001 or later.
- SFS is available with 2 or 4 solvent positions
- Additional solvent positions can be retrofitted individually
- Up to 4 SFS can be used on one MPS

System requirements

To use the SFS 3 option, you will need the following additional hardware:

- A MultiPurpose Sampler MPS Robotic Pro or MPS Robotic or MPS Liquid
- A tool with a syringe
- A computer with the MAESTRO software for MPS Robotic installed

Capacity

- Up to 4 solvent positions for removing the solvent
- 2 waste positions for the separate disposal of different solvents
- Up to 4 solvent flasks with a volume of 1 L each, DIN GL 45 thread
- 2 waste canisters with a volume of 5 L each, DIN GL 45 thread

Materials

Check the chemical compatibility of the following materials with the solvents and samples you are using.

- Solvents and waste cells: stainless steel
- Tubes: PTFE
- Seals: PTFE
- Solvent flasks: Duran glass
- Waste canister: HDPE
- Outflow tube to the waste canister: silicone

Edition 09/2019

- Y-piece for outflow tube: POM
- SCAT safety cap: PTFE, PP

Operating conditions

- 20 … 35 °C
- Max. 3000 m above normal height null (sea level)

Storage conditions

- 5 … 40 °C
- Max. 3000 m above normal height null (sea level)

Dimensions (W × H × D)

- SFS: 10.1 cm × 26.8 cm × 41.5 cm
- Solvent reservoir: 11.6 cm × 15 cm × 46.4 cm

Weight

- SFS with 2 solvent positions: 4.15 kg
- SFS with 4 solvent positions: 5.15 kg
- Solvent reservoir with empty solvent flasks: 3 kg

Control

- In combination with the GERSTEL MAESTRO software, either integrated in an Agilent® Technologies chromatography data system (CDS), or coupled to a CDS from AB Sciex™ and Thermo Scientific®, or on a stand-alone basis.
- Sample preparation steps can be assembled by a click of a mouse

Electrical specifications

- Wide-range power supply 100 … 240 VAC primary, 50 … 60 Hz, max. 1.4 A, 24 V secondary, max. 2.5 A
- Power supply efficiency class VI
- Power consumption on standby 4 W
- Power consumption maximum 46 W

Safety

- Protection class 1
- Type of protection IP 20

GERSTEL GmbH & Co. KG, Germany
gerstel@gerstel.de • www.gerstel.de
+49 208-7 65 03-0

GERSTEL AG, Switzerland
swiss@ch.gerstel.com • www.gerstel.ch
+41 41-9 21 97 23

GERSTEL Inc., USA
sales@gerstelus.com • www.gerstelus.com
+1 410-247 5885

GERSTEL (Shanghai) Co. Ltd
china@gerstel.com • www.gerstel.cn
+86 21 50 93 30 57

GERSTEL K.K., Japan
info@gerstel.co.jp • www.gerstel.co.jp
+81 3 5731 5321

GERSTEL LLP, Singapore
sea@gerstel.com • www.gerstel.com
+65 6779 0933