



mVAP Option for MPS Robotic

The mVAP option

The mVAP option is an option for the GERSTEL MultiPurpose Sampler MPS Robotic Pro and MPS Robotic. It makes it possible for up to 6 samples from vials to be evaporated in parallel. Evaporation takes place in a time-controlled manner with the assistance of an external vacuum pump. During evaporation, the samples can be heated and agitated. Evaporation is carried out automati-

cally using the MPS and can be combined with other sample preparation steps, thereby making it possible to obtain reproducible results.

The mVAP option was designed to perform evaporation from 10-mL vials. Evaporation from 2-mL or 4-mL vials is also possible as an option.

Specifications

System configuration

- Applies to the mVAP option with a serial number 08206-1001 or later.
- Vacuum pump with solvent recovery included
- MAESTRO software version 1.5.3.30
- MPS firmware version 2.4.17234

System requirements

- A MultiPurpose Sampler MPS Robotic Pro or MPS Robotic
- A USM or PSM tool
- A gripper for metal or polymer-based transport adapters for MPS Robotic
- A computer with the MAESTRO software for MPS Robotic installed

Capacity

- 6 positions for 2-mL, 4-mL and 10-mL vials
- Parallel evaporation of up to 6 samples
- Automated evaporation of any number of samples in groups

Evaporation volume

- Max. 8 mL (10-mL vials)
- Max. 3.2 mL (4-mL vials)
- Max. 1.2 mL (2-mL vials)

Evaporation pressure

- 60 mbar ... ambient pressure

Evaporation time

- Max. 24 hours

Pressure ramps

- Max. 9

Evaporation temperature

- 30 ... 100 °C

Agitation speed

- 250 ... 750 rpm (± 15%)

Operating conditions

- Max. 3000 m above normal height null (sea level)

Storage conditions

- Max. 3000 m above normal height null (sea level)

Dimensions (W × H × D)

- 27 cm × 14 cm × 27.7 cm

Weight

- 2.2 kg

Interfaces

- PAL bus

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.
- All parameters selectable by mouse-click

Directives/Standards

- 2011/65/EC (RoHS)
 - EN 50581:2012

Vials and caps

The mVAP option is only conceived for use with the following vials and caps:

2-mL vials

Description	Part number
2-mL vial, threaded neck, V-bottom, fill volume 1.4 mL, clear, pack of 100	093640-045-00
2-mL vial, threaded neck, fill volume 1.8 mL, clear, pack of 100	093640-046-00

Description	Part number
2-mL vial, threaded neck, fill volume 1.8 mL, brown, pack of 100	093640-095-00
Screw cap for 2-mL vials, blue, fitted with magnetic cap, gold, septum: beige silicone/white PTFE, 45° Shore A, 1.3 mm, pack of 100	093640-102-00
2-mL vial, crimp neck, fill volume 1.5 mL, clear, pack of 100	093640-004-00
Crimp cap for 2-mL vials, magnetic, septum: red PTFE/silicone/red PTFE, pack of 100	093640-007-00

4-mL vials

Description	Part number
4-mL vial, threaded neck, clear, pack of 100	093640-076-00
4-mL vial, threaded neck, clear, rounded base, pack of 100	093640-113-00
Screw cap for 4-mL vials, magnetic, black, septum: dark-blue transparent silicone/white PTFE, 45° Shore A, 1.3 mm, pack of 100	093640-103-00

10-mL and 20-mL vials

Description	Part number
10-mL vial, threaded neck, clear, pack of 100	093640-038-00
10-mL vial, threaded neck, brown, pack of 100	093640-039-00
Screw cap for 10-mL and 20-mL vials, magnetic, septum: blue transparent silicone/white PTFE, 45° Shore A, 1.3 mm, pack of 100	093640-040-00