



Ultrasonic Option for MPS Robotic

The Ultrasonic option is an option for the GERSTEL Multi-Purpose Sampler MPS Liquid, MPS Robotic and MPS Robotic Pro. It enables samples to be sonicated before injection or as part of the automated sample preparation process.

To enable the option to be performed automatically, a top tray is mounted on top of a standard ultrasonic bath and the sample vials are stood in the top tray during sonication. The MPS transports the samples for sonication to the ultrasonic bath and then back to the sample tray.

After sonication, large drops of water can be removed from the sample vial by placing it in a special dripping-off position, if needed.

The following data relate to the top trays for the ultrasonic bath. Technical data relating to the ultrasonic bath itself can be found in the documentation accompanying the ultrasonic bath.

System configuration

- Top trays are available for the following vial sizes: 2 mL, 4 mL, 10/20 mL, 40 mL
- Individual top trays cannot be set up for different sizes

System requirements

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

- A MultiPurpose Sampler MPS Robotic Pro or MPS Robotic or MPS Liquid

- The SONOREX DIGITEC 102H RC ultrasonic bath
- A holder for use with the ultrasonic bath that enables the ultrasonic bath to be positioned correctly on the MPS or GC
- A standard tray to store the samples on the MPS
- A tool with a syringe
- A computer with the MAESTRO software for MPS Robotic installed

Capacity

The capacity is heavily dependent on the top tray being used.

- 6 positions for vials of 2 mL
- 6 positions for vials of 4 mL
- 6 positions for vials of 10 mL or 20 mL
- 4 positions for vials of 40 mL

Top tray dimensions (W × H × D)

- 19 cm × 7 cm × 29 cm (2-mL vials)
- 19 cm × 7.5 cm × 29 cm (4-mL vials)
- 19 cm × 13 cm × 29 cm (10/20-mL vials)
- 19 cm × 17 cm × 29 cm (40-mL vials)

Top tray dimensions, including ultrasonic bath (W × H × D)

- 19 cm × 25.5 cm × 29 cm (2-mL vials)
- 19 cm × 26 cm × 29 cm (4-mL vials)
- 19 cm × 29 cm × 29 cm (10/20-mL vials)

- 19 cm × 32.5 cm × 29 cm (40-mL vials)

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