



Increase productivity with automated media preparation

- ▶ Efficient preparation of dissolution media in a **mobile space-saving** unit
- ▶ **Open system**, easy to clean, observe, and validate
- ▶ **Precise** preheating of the media to test temperature and reliable degassing
- ▶ **Continuous checks** of selected temperature
- ▶ **Fast and accurate** volumetric filling of test vessels at 1500 mL/min
- ▶ **Use of concentrates** with on-line preparation by sequential addition
- ▶ Optional **gravimetric self-calibration** with built-in balance and automatic report generation

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Self-calibration

Technical data

Preparation batches	10 or 20 litres, switchable
Temperature range	30 – 40 °C
Preparation time	10 / 20 min
Medium feed rate	1500 mL/min
Dosing accuracy	50 – 80 mL +/- 0.8 mL, 80 – 1000 mL +/- 1%
Voltage	230 V/50 Hz or 110 V/60 Hz
Power consumption	2000 VA
Vacuum	0.2 bar
Connecting hoses for:	
Medium supply	8/10 dia.
Cleaning water	3/4 "
Waste	8/10 dia.
Media	all standard dissolution medias (no organic solvents)
Width/depth/height	450/690/930 mm

Order Information

Part #	Description
8200	SOTAX MPS
8346	Self-calibration option

Key hardware features

When USP 1, 2, 4, 5 & 6 dissolution tests are carried out, the preparation of media and accurate metering into the test vessels involves a considerable amount of work. Automated media preparation saves time, and improves dissolution test reliability and repeatability.

The SOTAX MPS Media Preparation Station offers efficient preheating and degassing of the dissolution media, as well as fast and accurate vessel filling. In laboratories where many short tests are carried out or where several dissolution units are used, the MPS can be quickly and easily re-filled. For even greater efficiency, the use of concentrates allows the system to further reduce media preparation time.

Description

The SOTAX MPS Media Preparation Station is compact and easily moved around the laboratory. A volume of media of 10 or 20 litres may be prepared per cycle, which is sufficient for up to three dissolution tests. The unit was designed to be easy to use, clean, program and validate.

Mode of operation

The SOTAX Media Preparation Station has a Plexiglas media reservoir and works with a liquid volume of up to 20 litres. The reservoir is maintained under vacuum for degassing and prevention of re-aeration. The media is simultaneously heated and degassed. Precise adjustment to the desired temperature is accomplished with a second heater placed inside the reservoir. All aspects of the media preparation process are automatically controlled.

The volume of media is selected using the front key pad. Metered delivery from the media reservoir into the dissolution vessel uses a highly accurate delivery pump with a 1500 mL/min flow rate on a single channel. The dissolution tester is filled with media and ready to use in approximately three minutes. The accuracy is >99.5%, in compliance with USP requirements. Before a different medium is prepared, the system automatically empties and cleans itself. The media reservoir and the entire tubing and valving system is thoroughly flushed to avoid contaminating the subsequent media. The system's open architecture allows for easy visual inspection of the cleaning process.

Self-calibration (option)

Self-calibration system with built-in balance for ease of validation. This menu-guided process requires less than one minute and results may be printed for validation documentation. Up to 5 validation readings are possible.