

MPS

SOTAX MPS Media Preparation Station

SWISS
QUALITY
ISO 9001

- Efficient preparation of dissolution media within a mobile space-saving unit
- Open system, easy to clean, observe and validate
- Exact preheating of the media to test temperature and reliable degassing
- Continuous checks of selected temperature
- Fast and accurate volumetric filling of test vessels at 2000 ml/min
- Use of concentrates with on-line preparation or by sequential addition
- Option of gravimetric self-calibration with built-in balance and automatic report generation

Our design fits everywhere



Media Preparation Station for the efficient preparation of dissolution media (degassing, heating and dosing of media)

SOTAX



Self-calibration

Technical data

Preparation batches	10 or 20 litres, switchable
Temperature range	30–40 °C
Preparation time	10 / 20 min
Medium feed rate	2000 ml/min
Dosing accuracy	50–80 ml +/-0.8 ml, 80–1000 ml +/-1%
Voltage	230 V, 50 Hz or 115 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	usual dissolution media (no organic solvent)
Width, depth, height	450, 690, 930 mm

Order information

Part #	Description
8200	SOTAX MPS Media Preparation Station
8346	Self-calibration option

Key hardware features

When USP 1,2,4,5 & 6 dissolution tests are carried out, the preparation of the media and its degassing, tempering and accurate metering into the test vessels involves a considerable amount of work. The use of an automatic media preparation is one step in the automation of dissolution tests in the laboratory.

The SOTAX MPS Media Preparation Station permits the efficient preheating and degassing of the dissolution media as well as fast and accurate filling. In laboratories where many short tests are carried out or where several dissolution units are used, these can be filled with media quickly and easily. With the use of concentrates there is the possibility to gain even more efficiency.

Description

The SOTAX MPS Media Preparation Station is very compact and can be easily moved around the laboratory. A volume of media of 10 or 20 litres may be prepared 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 container and works with a liquid volume of up to 20 litres. The container is under vacuum. During this process the media is degassed and simultaneously heated with the SOTAX Thin Film Technology™. Calibration to the desired temperature is effected with a second heater placed inside the container. During the preparation process the degassing and temperature-adjusting functions are automatically controlled.

The volume of media can be selected via the front key pad and is metered from the media container into the test vessel using a highly accurate and fast delivery pump with 2000 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 % fulfilling the USP requirements. Before a different medium is prepared, an automatically controlled emptying and cleaning function is set in motion. The glass vessel and the entire tubing and valve system are thoroughly flushed to avoid contaminating the subsequent media. The system's open architecture allows for easy visible inspection of the cleaning results.

The SOTAX Media Preparation Station is equipped for sequential metering of deaerated deionised water and media concentrates. The dilution ratio may be programmed via the front key pad. Using the SOTAX Media Preparation Station in this mode eliminates cleaning of the station between media changes.

A sophisticated electronic system automatically controls and monitors all functions during the preparation and cleaning process. Key data is shown on the display and may be printed by connecting a printer to the serial port.

Self-calibration (option)

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

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