

Technical Specifications



MPS Media Preparation Station

Degassing at the USP and FDA recommended levels, the MPS is a mobile unit assisting in bringing 10 – 20 L of degassed and heated media to your dissolution system. By inserting the dispensing nozzle into individual vessels, precise and gravimetrically validated dispensing of media at 1'500 mL per minute without re-aeration is achieved. Once dispensing has been completed, the MPS can be simply connected to the next DI water inlet to start its automated cleaning routine – while the dissolution test runs.

Media		All standard dissolution media possible (no organic solvents)
Volume	Batches	10 or 20 L (selectable)
Temp. range		20-45 °C
Degassing capacity		< 60 % oxygen saturation (with immediate dosing of freshly prepared medium into dissolution test vessels)
Time	Media preparation	Approx. 12 min for 10'000 mL (800 mL/min)
	Automatic cleaning	Approx. 10 min
Media dosing	Flow rate	1'500 mL/min
	Accuracy	50-80 mL +/- 0.8 mL 80-1'000 mL +/- 1 %
	Pump calibration	Gravimetric
Balance option	Capacity	6'100 g
	Readability	0.1 g
Vacuum		-0.7 bar
Tube dimensions	For media supply	Inside Ø 8.0 mm; outside Ø 12.7 mm
	For concentrate supply	Inside Ø 8.0 mm; outside Ø 12.7 mm
	For dosing	Inside Ø 8.0 mm; outside Ø 12.7 mm
	For rinsing	Inside Ø 15.0 mm; outside Ø 21.0 mm
	For drain	Inside Ø 10.0 mm; outside Ø 16.0 mm
Cleaning requirement		DI water (flow rate: 30 L/min); pressure: 3-5 bar
Materials in contact with media or dosage form		PTFE / PEEK tubing, PVDF connections, Viton® (FPM) seals and fittings
Control	Firmware	Integrated with display and front keypad
Interfaces		RS 232, parallel port
Power supply	Mains voltage	115/230 V +/- 10 %
	Frequency	50/60 Hz
	Power consumption	2'200 VA
Noise emission		< 70 dB (A)
Operating conditions		T° from 15 °C to 30 °C, %RH between 10 % and 75 %
Identification label		CE conformity, 2002/96/EC, manufacturer, unit type, article number, serial number, year of manufacture, mains voltage, frequency, power consumption, fuse protection
Weight		90 kg
Dimensions	Width	500 mm
	Depth	800 mm
	Height	1'200 mm

Technical specifications are subject to change without prior notice. Products described or illustrated may include options or modifications not fitted as standard. No liability for errors and omissions.