

# Technical Specifications




MD Station



Robot



Basket Station

## AT MD Dissolution System

The AT MD\* fully automated bench-top dissolution system can handle basket and paddle methods as well as sinkers including Japanese sinkers. It runs up to 8 unattended batches – from media preparation to data reporting. The AT MD is driven by the 21 CFR, Part 11 compliant MD software. The design of SOTAX dissolution systems is compliant with all harmonized pharmacopeia requirements for paddle and basket methods.

<b>Capacity</b>		48 samples (8 unattended batches of 6 samples)
<b>Media preparation and delivery</b>	Media types	All standard dissolution media possible (no organic solvents)
	Volume	Up to 10 L
	Delivery accuracy	Exceeds USP / EP / JP requirements of 1 %
	Temp. range	20-45 °C
	Degassing capacity	De-aeration (with immediate dosing of freshly prepared medium into dissolution test vessels)
<b>Tank</b>	Media preparation	Polyethylene, approx. 20 min for 10'000 mL
	Automatic cleaning	
<b>Pumps</b>	Sample pump	Positive displacement, +/- 2.5 % accuracy, max. 12 mL/min, Kynar body, ceramic piston & liner
	Media pump	0 to 24 V DC at 1.2 A, wetted material Ryton 4-XT, max. 1.6 L/min
	Waste pump	Bellows type, 1 L/min
<b>Filtration</b>		Standard 25 mm syringe filters (luer)
<b>Liquid management</b>	9-port valves	Rotary, sliding Tetralene seal
	3-way valves	Teflon
	Tubing	PVC with TFE sample path
<b>Balance</b>	Readability	1 g
	Weighing range	34 kg
	Reproducibility	0.5 g
	Linearity	1 g
	Sensitivity drift	10-30 °C per 10 ppm/°C
<b>Sampling</b>	Time points	1 to n sampling points (depending on sampler size-SAM) at intervals of 5 min and less (configuration dependent)
	Sampling time accuracy	+/- 6 seconds
	Collection volumes	12 mL with 16 x 100 mm tubes (sampler) 1.5 mL with 11 mm HPLC vials (sampler)
<b>Materials in contact with media or dosage form</b>		PTFE / PEEK tubing, PVDF connections, Viton® (FPM) seals and fittings, stainless steel
<b>Control</b>	Automated	Software: MDsoft
<b>Reporting</b>	Print	DIN A4 and US letter format through USB, LAN
	Export	Format csv, xls, xml, htm, pdf
<b>Interfaces</b>		RS 232
<b>Power supply</b>	Mains voltage	115-230 V +/- 10 %
	Frequency	50-60 Hz
	Power consumption	950 VA
<b>Environmental impact</b>	Pollution degree	2

<b>Operating conditions</b>		T° from 20 °C to 40 °C, RH between 10 % to 90 % non-condensing
<b>Identification label</b>		CE conformity, manufacturer, unit type, article number, serial number, mains voltage, frequency, power consumption
<b>Weight</b>	MD station	105 kg
	Basket station	5 kg
	Robot	15 kg
	Robot base plate	6 kg
<b>Dimensions</b> (width x depth x height)	MD station	510 x 610 x 790 mm
	Basket station	250 x 570 x 730 mm
	Robot	350 x 350 x 720 mm
	Robot base plate	890 x 660 x 5 mm

(\*for dissolution apparatus specifications, please refer to the technical specification document MB10031EN)

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