

Technical Specifications



AT MD Dissolution Apparatus

The AT MD has been designed for the most demanding environments. Its unique design combines robust quality components with state-of-the-art technology to guarantee reproducible testing conditions, day after day. 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.

Methods		Basket, paddle
Dosage forms	Type	Tablets, capsules, sinkers,
	Introduction	Automated
	Inlet dimension	Ø 18 mm
Bath	Opening / closing	Automated
	Capacity	16.5 L
	Temp. range	Ambient +5 °C to 45 °C
	Temp. accuracy	+/- 0.5 °C
	Temp. control	By water circulation
	No. of stirring positions	6
Vessel	Type	1 L, Peak vessel
	Material	1 L vessels: glass, polycarbonate, Teflon-coated, inactinic glass Other vessels: on demand
	In-vessel evaporation	< 1 % per 24 h at 37 °C (DI water, sampling ports closed)
	Shaft	Material
	Stirring range	25-250 rpm
	Stirring accuracy	+/- 1 rpm
Compliance	Vessel / shaft centering	Automated
	Vertical alignment	Automated
	Shaft height adjustment	Automated
	Serial numbers	For all vessels and shafts
	The AT MD dissolution apparatus complies with all pharmacopeia requirements.	
Materials in contact with media or dosage form		PTFE / PEEK tubing, glass or polycarbonate vessel, ceramic pump heads, various parts in stainless steel A316L, Viton® (FPM) seals
Sampling	Type	Automated cannula
	Time points	1 to n sampling points (depending on sampler size-SAM) at intervals of 5 min and less (configuration dependent)
Temp. monitoring		6 mobile probes (1 per vessel)
Video monitoring	No. of channels	6
	Type	Individual HD cameras with focal distance and height adjustment
	Position	Integrated in bath (CenterView™ design)
	Output	Video recording and network monitoring (TCP/IP)
	Light	Integrated indirect light
Control	Automated	MDsoft Dissolution Software
Program capacity		unlimited
Interfaces		USB, Ethernet, CAN, RS 232, D-sub

Power supply	Mains voltage	115-230 V +/- 10 %
	Frequency	50-60 Hz
	Power consumption	1100 VA
	Recommended Miniature Circuit Breaker (MCB)	10 A Class B
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		56 kg
Dimensions	Width	560 mm
	Depth	710 mm
	Height	1040 mm

(*for MD Station, Robot, and Basket Station specifications, please refer to the technical specification document MB10030EN)

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.