

Technical Specifications

SOTAX



AT Dissolution Apparatus

Whether used as a manual apparatus or as the core component in an automated dissolution system – the AT 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. Depending on the required automation level, the AT can be flexibly extended with additional Xtend™ modules – making method transfer for increased throughput requirements easier than ever.

Methods		Basket, paddle, paddle over disk, rotating cylinder, extraction cell, mini paddle, China paddle, stationary basket, intrinsic and other non-compendial methods
Dosage forms	Type	Tablets, sinkers, suspensions, transdermals, APIs, creams, gels, and more.
	Introduction	Manual or automated (for tablets, sinkers)
	Inlet dimension	15 x 30 mm
Bath	Opening / closing	Manual or 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, 7 or 8
Vessel	Type	1 L, 2 L, Mini vessel, Immersion Cell vessel, Peak vessel, China vessel
	Material	1 L, 2 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)
	Type	Manual or automated (HollowShaft™)
Shaft	Material	Stainless steel, gold-coated, Teflon-coated
	Stirring range	25-250 rpm
	Stirring accuracy	+/- 1 rpm
	Vessel / shaft centering	Automated
Compliance	Vertical alignment	Automated
	Shaft height adjustment	Automated
	Serial numbers	For all vessels and shafts
	The AT dissolution apparatus complies with all pharmacopeia requirements.	
Tube dimensions	Inside	Ø 1.5 mm
	Outside	Ø 3.0 mm
Materials in contact with media or dosage form		PTFE tubing, glass or polycarbonate vessel, suction head in PVDF, various parts in stainless steel A316L, Viton® (FPM) seals
Sampling	Type	Pipette, cannula, AutoLift™, HollowShaft™ (suction head)
	Max. number of time points per off-line method (firmware)	Up to 90 time points on 8 channels
Temp. monitoring		1 mobile probe or individual in-vessel probes (AutoLift™ option)



Video monitoring	No. of channels	6, 7 or 8
	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	Manual	With 5.4" color touch screen (EasyTouch™)
	Automated	On-line or on/off-line systems: WinSOTAXplus software; Off-line systems: no software needed (controlled with EasyTouch™ on AT apparatus)
Program capacity		Up to 100 manual and off-line methods
Interfaces		USB, Ethernet, CAN, RS 232, D-sub
Reporting	Print	40 col, DIN A4 and US letter format through USB, LAN, RS 232
	Export	Format csv, pdf, xml
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 (1 L bath) 57 kg (2 L bath)
Dimensions	Width	560 mm
	Depth	710 mm
	Height	940 mm (1 L bath) 1040 mm (2 L bath)

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.