

Technical Specifications



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 55 °C
	Control accuracy of bath temp.	+/- 0.1 °C
	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)
	Shaft	Type
Material		Stainless steel, gold-coated, Teflon-coated
Stirring range		1-250 rpm
Stirring accuracy		+/- 1 rpm
Compliance	The AT dissolution apparatus complies with all pharmacopeia requirements.	
Tube dimensions	Inside	Ø 1.5 mm or 0.8mm
	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. PEEK on demand.	
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
		Optional: individual in-vessel probes with AutoLift™

Video monitoring (optional)	No. of channels	6, 7 or 8
	Type	Individual HD cameras with focal distance and height adjustment
	Position	Integrated in bath (CenterView™ design)
	Recording	Separate recording device (not controlled by the instrument)
	Output	Video recording and network monitoring (TCP/IP)
	Light	Integrated indirect light
Control	EasyTouch™	With 5.4" color touch screen Manual and off-line systems
	Software	WinSOTAXplus: off-line and on-line (UV or LC)
Program capacity		> 100 active methods
Interfaces		USB, Ethernet, CAN, RS 232, D-sub
User Management		Unlimited users and user groups with individual access rights
Reporting	Print	40 col, DIN A4 and US letter format through USB, LAN, RS 232
		WinSOTAXplus
Software compatibility		WinSOTAXplus
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)
Environmental conditions		Temperature: 15 °C to 30 °C, Relative humidity: 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.