

Technical Specifications

SOTAX



AT 70smart

The AT 70smart BS60 can handle basket, paddle, and methods requiring sinkers. By automating vessel filling and cleaning steps, the hands-on time required to run up to 15 lots of dissolution in a row is eliminated. The ability to use 8 different media per batch allows the user to either run several different products in a row or as a DOE tool in formulation screening. The AT 70smart is driven by the 21 CFR Part 11 compliant WinSOTAXplus Advanced Dissolution Software.

Methods		Basket, paddle
Dosage forms	Type	Tablets, capsules, sinkers
	Introduction	Automated
	Dosage volume control	Each channel separately
	Inlet dimension	Ø up to 15 mm
	Magazine for samples	Paddle: 7 x 10 – 15 samples (standard) or more (customized solutions available)
Bath		Basket: 10-position carousel
	Opening / closing	Automated
	Temp. range	Ambient +5 °C to 45 °C
	Temp. accuracy	+/- 0.5 °C
	Temp. regulation	By water circulation
Media	No. of stirring positions	7 (6 dissolution vessel + 1 blank vessel)
	Type	3 plus water (optional: up to 8 concentrates)
	Initial volume	500 – 1000 mL +/- 1 %
	Media replacement	1 – 50 mL
	Buffer-/ media addition	50 – 500 mL +/- 1 %
Vessel	Rate of media addition	120 mL / min
	Type	1 L
	Material	Borosilicate glass
	Vessel fill rate	300 mL/min
Shaft	In-vessel evaporation	< 1 % per 24 h at 37 °C (DI water, sampling ports closed)
	Type	HollowShaft™ or solid shaft
	Material	Stainless steel, gold-coated, Teflon-coated
	Stirring range	25 – 250 rpm
Compliance	Stirring accuracy	50 – 150rpm +/- 1 rpm
	Vessel / shaft centering	Automated
	Vertical alignment	Automated
	Shaft height adjustment	Automated
Sampling	Serial numbers	For all vessels, shafts, paddles, and baskets
	The AT 70smart dissolution system complies with all pharmacopeia requirements.	
	Type	Automated with HollowShaft™ or residential probe
	Max. number of time points	Off-line or On/Off-line: up to 90 on 7 channels UV-Vis On-line: up to 1'200 on 7 channels
Filtering	Type	Disposable filter Pall Acrodisc 25 mm
	Magazine	Up to 280 (7 x 40)
	No. of positions	7

Cleaning	Time / demand of cleaning water for test preparation (without dosage / heating of media)	4 min. / ca. 7 L
	Time / demand of cleaning water for end cleaning	2 min. / ca. 10 L
Tube dimensions	Inside	Ø 1.5 mm
	Outside	Ø 3.0 mm
Materials in contact with media or dosage form	Tubes for medium without active substance	LDPE
	Tubes for media with active substance	PTFE
	Tubes for flushing water	PVC
	Sample magazine	PMMA
	Dissolution test vessels	Borosilicate glass
	Drain valves	PVC / stainless steel 1.4435
	Flushing water distributor	PVDF
	Suction head	PVDF
	Seals	VITON
	Hinged armature valve with manual override	FKM / PVDF
	Filter Station FS 70	PEEK / PTFE
Temp. monitoring	Media preparation unit MP 70	PP / stainless steel 1.4435
		1 mobile probe
Standard monitoring (for UV-Vis)		8-1 valve and CP 1-35 pump
Video monitoring	No. of channels	1 camera
	Type	HD camera with focal distance and height adjustment
	Position	Positioned in front of the dissolution bath
	Output	Video recording (USB)
	Light	Integrated indirect light
Control	Automated	WinSOTAXplus Advanced Dissolution software
Program capacity		Unlimited
Interfaces		RS 232, I/O Contact Closure
Reporting	Export	Network or local printer; PDF format
Power supply	Mains voltage	230/115 V +/- 10 %
	Frequency	50/60 Hz
	Power consumption	2000 W
	Internal fuses	Various
	Recommended Miniature Circuit Breaker (MCB)	16 A Class C (230 V) 25 A Class C (115 V)
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	AT 70smart	Ca. 230 kg
	BS 60	Ca. 116 kg
Dimensions (width x height x depth)	AT 70smart	1120 x 1350 x 660 mm
	BS 60	1030 x 1450 x 660 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.