

# DISI Automatic Disintegration Tester

Automatic recording of tablet disintegration time Display of disintegration curve per tablet Up to 4 independent testing stations Professional reporting including statistics



## DISI

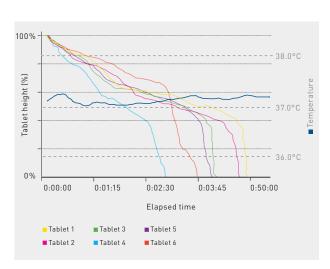
The DISI automatically detects disintegration time of tablets and capsules in full compliance with current Pharmacopeia regulations. Additionally, the tester records the disintegration characteristics of individual tablets during the entire test – making it possible to address fluctuations and inconsistencies by visualizing the disintegration process. Its solid and virtually maintenance-free design make it an ideal choice for R&D, QC laboratories and production environments.

#### Unique detection principle

Using patented electromagnetic measuring technology, the remaining tablet height is recorded with each basket upstroke and displayed graphically in real-time on a connected PC. As soon as a tablet has completely disintegrated, the DISI automatically records its individual end time. When testing capsules, the remaining tablet height can be programmed to a defined distance – making the disintegration process highly repeatable.

#### Temperature control

In addition to a high-performance heater/circulator with precise temperature control, every basket has its own temperature sensor. Test medium temperature inside the basket is continuously monitored, recorded and graphically displayed together with the disintegration curve.



→ Graphical display of disintegration curves and test medium temperature

#### Corrosion-free baskets

The DISI and all baskets are completely corrosion-free and very easy to clean. The baskets can be disassembled within seconds for cleaning. All electronics are sealed inside the basket. For fast and easy handling, each basket is equipped with a self-centering magnetic coupling without requiring any cables for data transmission. Standard 6-tube baskets and 3-tube according to USP / EP available.



# Proven Reliability

#### Comprehensive test reporting

All measured data is automatically recorded in PH21 PC software – fulfilling all requirements of a 21 CFR, Part 11 compliant system. Every tablet can be traced back via the batch ID number at any time. Statistical reports can be obtained in tabular and/or graphical format. Standard USP and EP methods including re-testing procedures are already pre-programmed in the software.

#### Solid design

The DISI has a high-end surface finish and solid mechanics. Stepper motors and linear drives guarantee the highest repeatability and linearity. A simple and fully automated electronic calibration routine ensures that all settings are according to Pharmacopeia requirements.







→ Self-centering basket without any cables

### Models

The DISI is available with up to four independent stations. Different models accommodate individual testing requirements.

DISI-3



→ single station

 $\rightarrow$  2 independent stations



ightarrow 3 independent stations



DISI-4

→ 4 independent stations

#### **Technical Specifications**

#### DISI, Disintegration tester

Stations		1–4 (independent)	
Strokes per minute	Frequency	30	
	Accuracy	+/- 0.1	
Stroke height	Height	55 mm (2.17 inch)	
	Ассигасу	+/- 0.5 mm (0.02 inch)	
Temperature	Acquisition range	35–39°C, 0.1°C resolution	
	Accuracy	+/- 0.2°C (within acquisition range)	
End-time detection	Detection principle	electro-magnetic	
	Data acquisition	with each basket stroke (every 2 s)	
	Min. threshold	0.2 mm (0.0079 inch)	
	Min. test duration	Standard: → 10s recommended Optional: → 2s (precision-calibrated basket required)	
Interfaces		RS 232	
Power supply (Heater / circulator)	EU-Standard	230 V/50-60 Hz, 2.1KW	
	US-Standard	110 V/50-60 Hz, 1.0KW	
CE Conformity		All DISI models fully comply with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.	

		DISI-1	DISI-2	DISI-3	DISI-4
Power supply	(Drive unit)	100-240 V/ 47-63 Hz, 50W	100-240 V/ 47-63 Hz, 75W	100-240 V/ 47-63 Hz, 100W	100-240 V/ 47-63 Hz, 125W
Volume water bath		5.5 เ	7 l	8.5 l	10 l
Weight	(without packaging) ithout packaging)	approx. 28 kg (61.7 lbs)	approx. 39 kg (86 lbs)	approx. 50 kg (110.3 lbs)	approx. 61 kg (134.5 lbs)
Dimensions	Width	335 mm (13.2 inch)	470 mm (18.5 inch)	605 mm (23.8 inch)	740 mm (29.1 inch)
	Height	705 mm (27.8 inch)	705 mm (27.8 inch)	705 mm (27.8 inch)	705 mm (27.8 inch)
	Depth	250 mm (9.9 inch)	250 mm (9.9 inch)	250 mm (9.9 inch)	250 mm (9.9 inch)

Technical specifications are subject to change without prior notice. Products illustrated in this brochure may include options or modifications not fitted as standard. No liability for errors and omissions.

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