DisiTest 50
Automatic Disintegration Tester

Automatic recording of tablet disintegration time
Fast and ergonomic handling
Modular system with up to 4 testing stations
Professional reporting including statistics

pharmatron
Dr. Schleuniger®

Swiss Quality

High quality components paired with Swiss precision engineering provide for a long product life and minimize costly machine downtime. In order to ensure maximum reliability of your DisiTest 50, all instruments are tested according to strict internal quality standards before they leave our factory.

Disintegration Testing

With more than 40 years of experience in testing solid dosage form, Dr. Schleuniger® disintegration testing technology is a safe investment. Like all our instruments, the DisiTest 50 offers consistently accurate test results and fully complies with current USP (chapters 701 and 2040) and EP (2.9.1, disintegration of tablets and capsules) requirements.

Quality matters.

DisiTest 50

The DisiTest 50 automatically detects the disintegration time of tablets and capsules in full compliance with current Pharmacopeia regulations. Visual monitoring of the disintegration process by the operator is not required. Induction heating technology reduces heating times to only 3-5 minutes and completely eliminates unproductive cleaning times typically associated with conventional water bath based systems. All aspects of the DisiTest 50 are optimized for simple handling, error prevention and ease of regulatory compliance – from self-centering baskets without any cables to user-friendly touch screen operation and direct printing of comprehensive reports including statistics. Whether used as single station tester or modular disintegration testing system with up to 4 independent stations, the DisiTest 50 guarantees maximum efficiency and consistent results.
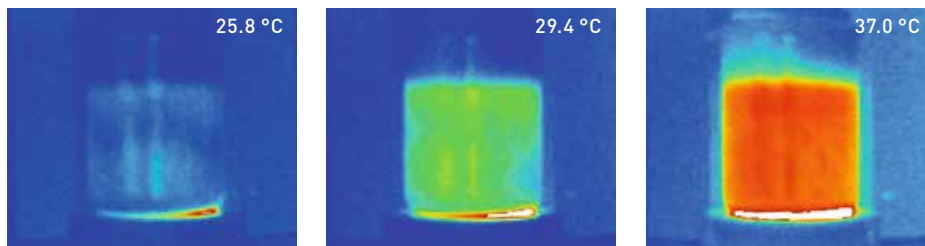
→ DisiTest 50,
   Automatic disintegration tester

Efficiency maximized

Temperature control

Using state-of-the-art induction heating technology, the test medium quickly reaches the required temperature reducing unproductive waiting times to a minimum. Because the heating process occurs directly inside the beaker rather than by applying heat from the outside, the DisiTest 50 ensures very precise and homogeneous temperature control. Test medium temperature is monitored continuously by a contact-free infrared sensor and recorded for reporting purposes.

→ Homogeneous test medium temperature
  throughout inductive heating process

Easy handling

From test setup to cleaning – the DisiTest 50 sets new standards for fast and ergonomic handling. Wireless baskets with self-centering magnetic coupling can be conveniently exchanged within seconds and cleaning has never been easier. To ensure a long product life, the robust baskets are sealed and protected against corrosion.

→ Self-centering basket
  without any cables

→ Quick-change tubes for
  easy industrial cleaning

→ 6-tube and 3-tube baskets
  with USP fluted discs

User-friendly operation

The DisiTest 50 is controlled via an intuitive and clearly structured color touch screen. Additional PC software is not required. Once a test has been started, the current disintegration status of each tablet is displayed graphically. Different testing modes guarantee fast test setup with programmed products and/or methods including T1/T2 limits – or alternatively allow performing direct tests without any programming. Different access levels ensure that data can be modified only by authorized personnel.

Comprehensive test reporting

Upon completion of a test, a report with measured results, statistics and temperature protocol is automatically printed. For ease of regulatory compliance and to minimize administrative work, the DisiTest 50 automatically records:

- Disintegration time of each tablet
- Test medium temperature
- Beaker filling level
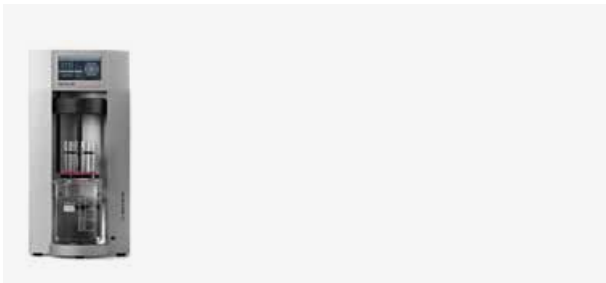- Type of test medium (e.g. 0.1 N HCl)
- Serial number of basket used

→ Example: Display with test running
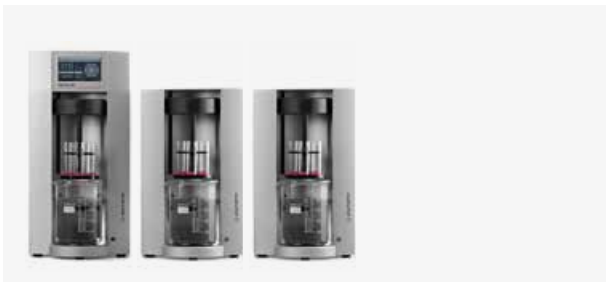
Flexibility maximized

Modular system

The DisiTest 50 can be extended to a fully automatic disintegration testing system with up to 4 independent testing stations and one MediaPrep station – all controlled via the touch screen of the Master station. Because individual testing stations are connected using state-of-the-art TCP/IP technology, system layout is flexible and retrofitting additional stations is possible anytime.

→ Single station (Master station)

→ Master station with 1 Client station

→ Master station with 2 Client stations

→ Master station with 3 Client stations

→ Master station with MediaPrep station

→ Master station with 3 Client stations and 1 MediaPrep station

Completely eliminate waiting times
Use the optional MediaPrep station to pre-heat test media for maximum efficiency. Particularly useful when pre-testing is required.

Alternative: Manual baskets
If automatic detection of disintegration time is not desired, the DisiTest 50 is also available with manual baskets.

Features & Benefits

Feature	Benefit	M	A
From ambient to test temperature within 3–5 minutes	Maximize use of your tester	●	●
Direct heating of test medium inside beaker ensures homogeneous temperature	Ease of regulatory compliance	●	●
No water bath	Very fast and easy cleaning	●	●
Automatic test start upon reaching the target temperature (programmable)	No operator waiting times	●	●
Automatic detection of tablet disintegration (end time)	No operator waiting times	—	●
Visual and acoustic alarm signals	Fast test setup and short training times	●	●
Precise measuring and regulation of test medium temperature throughout test	Error prevention and documentation	●	●
Automatic measuring of beaker filling level	Error prevention and documentation	—	●
Automatic detection of test medium type (e.g. water / buffer or 0.1 N HCl)	Error prevention and documentation	—	●
Optional media preparation station to pre-heat test medium for next test	Completely eliminate unproductive waiting times	●	●
Self-centering baskets without any cables	Fast and easy handling	●	●
Baskets protected against corrosion	Long product life	●	●
Basket design with quick-change tubes	Fast and easy cleaning	●	●
Automatic detection of basket type used (6-tube or 3-tube basket)	Error prevention and documentation	—	●
Automatic recording of basket serial number	Documentation and ease of regulatory compliance	—	●
Automatic beaker detection: heating switches off when beaker is removed	Error prevention and energy saving	●	●
Inductive heating only requires 50W heating power	Energy saving	●	●
Color-coded discs	Error prevention	—	●
User-friendly touch screen operation	Fast test setup and short training times	●	●
Programming of up to 100 products and methods possible	Fast test setup and error prevention	●	●
Different user access levels	Prevents unauthorized product or method changes	●	●
Print comprehensive reports including statistics on completion of a test	Documentation and ease of regulatory compliance	●	●
Connection of PostScript® network printer	Use network printer to save bench space	●	●
Integrated calibration and verification functions	Documentation and ease of regulatory compliance	●	●
No additional PC software needed	Full 21 CFR, Part 11 compliance without requiring separate validation of PC software	●	●
Small footprint	Ideal for limited bench space in laboratories	●	●
Modular machine concept with up to 4 independent stations	Flexibility to extend your system by adding additional stations when needed	●	●

M manual basket   **A** automatic basket   ● applicable   — not available

Technical Specifications

		DisiTest 50, Disintegration tester
Stations		1 – 4 (independent)
Strokes per minute	Frequency	30
	Accuracy	+/- 1
Stroke height	Height	55 mm (2.17 inch)
	Accuracy	+/- 2 mm (0.08 inch)
Temperature	Range (programmable)	25 – 40°C
	Measuring accuracy	+/- 0.2°C
Program capacity		up to 100 products / methods
Interfaces		Ethernet, RS232
Printer type		PostScript® network printer (LAN), serial printer
Power consumption		50 Watt / 3 A
Power supply		110 – 240 V, 50 – 60 Hz
CE Conformity		The DisiTest 50 fully complies with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.

		Master	Client	MediaPrep
Weight	(without packaging)	approx. 8 kg (18 lbs)	approx. 7kg (16 lbs)	approx. 3 kg (7 lbs)
Dimensions	Width	225 mm (8.9 inch)	225 mm (8.9 inch)	225 mm (8.9 inch)
	Height	460 mm (18.1 inch)	380 mm (14.9 inch)	155 mm (6.1 inch)
	Depth	200 mm (7.9 inch)	200 mm (7.9inch)	200 mm (7.9 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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