

DT-810

По вопросам продаж и поддержки обращайтесь:

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DT-810 Tablet Dissolution Tester

The DT-810 tablet dissolution tester is comprehensive, fully automated and designed for flexible measurement.

8 samples with either the paddle method (standard) or the rotating basket method (optional). Stand-alone mode with manual sampling or integrated with a UV-Visible/NIR spectrophotometer or HPLC. And with 21 CFR part 11 compliance.

DT-810 Table Dissolution Tester

The tablet dissolution tester features a circular design that provides completely uniform water temperature. The Direct-Center™ automatic centering mechanism provides guaranteed positioning of the dissolution vessels and drive shafts for accurate dissolution tests with high reproducibility. All components are controlled by Spectra Manager™ (or CFR) for simple operation.



System Features

- Complies with GLP/GMP, and USP, EP and JP requirements
- 21 CFR Part 11 compliant
- Excellent temperature stability using a circular bath
- Uniform temperature distribution between vessels
- Easy set up and maintenance
- Direct-center vessel centering for automatic alignment of vessels and drive shafts
- Test vessels manufactured with precise tolerances for vessel dimensions
- Spectra Manager™ Suite for operation and monitoring
- Automated tablet dropping system for dosage loading
- Automatic sampling tube positioning for upper and lower positions
- Amber bath & vessels for light-sensitive samples

Dissolution Specifications

Dissolution Tester Specifications	
Number of Vessels	8 vessels, 1000 mL each
	Test Method: Paddle method (Standard)
Spindles	Rotation speed of spindle 5 to 300 rpm Accuracy of rotation speed of spindle: ± 1 %
	Circular bath design with rotating function
	Stirring: Magnetic stirrer
	Temperature control: circular heating element
	Temperature range: 32-45°C (25°C room temperature)
Thermostatted Bath	Temperature accuracy: ± 0.1°C (32-45°C) Temperature stability: ± 0.05°C (32-45°C) Temperature accuracy (dissolution vessels): ± 0.1°C (32-45°C) Safety: Overheating protection using float switch, limit controller, temperature sensor Drain port for quick and simple cleaning
	Automated lifting and lowering by stepping motor
Sample Ports	User declared automatic sampling Sampling position: automated by method parameters and solution volume
Table Dropping	Automatic (tablets, capsules, test sinker)
Vessel Centering	Direct-Center™ automated mechanism
Temperature Sensor Position	Vessel water bath, dissolution vessels (optional)
Power Requirements	100,115, 200, 220, 230, 240 V; 50/60 Hz; 1100 VA (including LH-PV)
Dimensions	565(W) x 720(D) x 670(H) mm
Weight	Approx. 90 Kg (main unit including vessels and paddles; without water)
Software Specifications	
Functions	System control and monitoring, data collection, data analysis DT-810: bath temperature, drive shaft rotation speed, sample flow, dissolution vessel temperature (optional)
Monitoring Items	Liquid handling unit: Autosampler position Fraction collector: Current sample status V-530: Absorbance value of specified cells
Liquid Handling Unit Specifications	

Model	LH-PV2	LH-PV3
Number of Sample Lines	8	
Solvent Supply Procedure	8-line peristaltic pump	
Tubing	PharMed&orig; tubing	
Roller	stepping motor, normal and reverse flow	
Sampling Accuracy	3% (when sampling 20 mL)	
Switching Valve	2 valves	3 valves
Dimensions	160 (W) X 352 (D) X 311(H) mm	160 (W) X 352 (D) X 395 (H) mm
Weight	12 Kg	13 Kg

Fraction Collector Specifications

Model	FC-812AS
Sampling Procedure	8-nozzle filling mechanism
Sampling System	Freely moving X, Y, Z axis positioning
Fraction Collection	96 positions (20 mL test tubes)
Maximum Sampling Volume	20 mL
Minimum Sampling Interval	Sequence: 4 minutes (parameter dependent) Sampling: 1 minute for first sample, 2 minutes minimum thereafter (parameter dependent)
Contaminant Free Enclosure	Supplies as standard
Power Requirements	100,115, 200, 220, 230, 240 V; 50/60 Hz; 50 VA
Dimensions	300 (W) X 496 (D) X 415 (H) mm
Weight	23 Kg (main unit and sample rack)

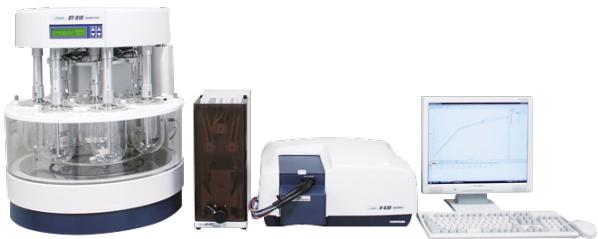
8-Position Flow Cell Specifications

Model	TQ-801
Cell (Option)	8: 10 mm path length flow cells 5, 2 and 1 mm path length flow cells (optional)
Reference Position	single cell holder (100 mm cuvette)

Flow System

Continuous Photometric Analysis during Dissolution

This system integrates the DT-810 with an 8-position flow cell accessory and a UV-Vis spectrophotometer. A peristaltic pump (LH-PV3) continuously circulates sample solution between the 8 dissolution vessels and the flow cell accessory. Absorbance values are measured at user declared intervals and dissolution rates are automatically calculated. External samples can also be introduced for analysis.



Fraction System

Analyze a Maximum of 12 Sets of 8 Samples

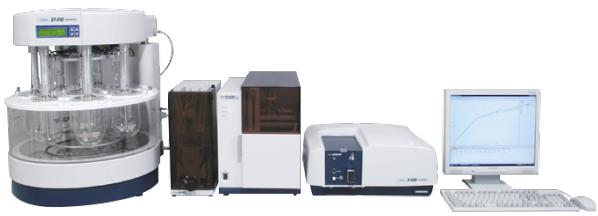
This system integrates a fraction collector and the LH-PV3 pumping unit for off-line testing. As many as 12 sets of samples with a volume of 20 mL or less can be collected from each dissolution vessel at pre-set intervals. Additional flow lines for solvent refills or line flushes using internal or external volumes are available.



Fraction Flow System

Flexibility for On-Line and/or Off-Line Testing

This system combines the fraction collector and a flow cell installed in a UV-Vis spectrophotometer. Samples from the dissolution vessels are collected in test tubes using the fraction collector and sample aliquots are analyzed by the UV-Vis using the autosampling capability of the fraction collector. Residual sample volumes can be analyzed later using other techniques such as HPLC.



Automated Filtration System

Reduced Sample Preparation



This system includes the LH-SV8 8-position syringe pump and the AF-801 Automated filter changer. It provides automatic filtration of a maximum of 20 ml of sample solutions from all 8 vessels using 25 mm diameter membrane filters with a pore size of 0.45 micron (0.2 micron optional). After each sampling, filters are automatically exchanged. The dedicated software can fully automate the dissolution testing including sample filtering.

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