ERWEKA

Dissolution UV/VIS Systems

Semi-Automated Dissolution System USP Apparatus 1, 2, 5 and 6

The ERWEKA dissolution systems are intended for dissolution testing of tablets, coated tablets, oblongs and other dosage forms for quality control and development. These systems have been designed according to the USP and EP requirements and fully conform to the safety requirements for electronic laboratory equipment. The ERWEKA dissolution system is a flexible system that comprises different measuring and analytical equipment. Depending on the demands, various types of dissolution systems can be applied. online, offline and off-/online.



Component Highlights

System Highlights

- Full support of USP Methods 1, 2, 5, 6
- 100% USP compliant system
- Automated sampling with automatic USP height adjustment and optional measuring of temperature in each vessel
- Automated tablet drop
- Pre-heating function
- Complete integration of different types of spectrophotometer
- High analytical flexibility due to additional integration of sample collector (e.g. for later HPLC measurement)
- Measuring of complete spectra
- Media replacement

Pump Highlights

- IPC pump reasonable price and easy to handle, inert material, 8 channel and 16 channels possible
- PVP piston pump for double filtration down to 0.22 µm for flat membrane filters, high precision, inert ceramic material pump heads, almost maintenace free

ERWEKA SPM

- True double-beam operation
- High throughput, low stray-light optics
- Pre-aligned deuterium and tungsten-halogen lamps
- Wide range of Flow-Through-Cuvettes with different pathlengths

- High stability, high accuracy
- Fulfills all pharmacopoeia and regulatory performance tests

Sample Collector FRL Highlights

- Up to 26 rows for extended release formulation testing
- Needles available in stainless steel or titanium for sensitive APIs
- Special procedure for handling of foaming media
- Automated flush routine between sampling intervals
- Movable trays provide easy exchange of different racks
- Different racks available for glass tubes or HPLC vials
- Handling of septa-sealed HPLC vials
- Easy access to sample tubes
- Easy to clean

Software Highlights

- Controls different types of spectrophotometer without the need of additional vendor software required
- Easy recalculation of results
- 21 CFR Part 11 compliant
- Calculation of dissolution profiles via UV-measurement
- MS SQL database with local or network installation
- Support for computer based ERWEKA dissolution sys- tems, capable of testing USP methods 1, 2, 5 and 6
- Multiple System Suitability Tests for highest reliability
- Easy approach from top to bottom
- Semiannual check of the photometer according EP

Dissolution UV/VIS Online System

Standard Online System with UV/VIS Spectrophotometer



DT 1412 Online System with UV/VIS Spectrophotometer



Dissolution UV/VIS On-/Offline System

On-/Offline System with DT 72x-Series



Dissolution Tester	Automatic Sampling Station	Peristaltic Pump	UV/VIS Spectrophotometer	Sample Collector	PC + Disso.NET Software
DT 726 (DT 727 / 728 possible)	ASS-8	IPC 8	ERWEKA SPM (Perkin Elmer Lambda 25 OEM) or Shimadzu 1800 or Agilent 8454	FRL 624	✓

On-/Offline System with DT 1412

The DT 1412 with 12 test stations can also be configured as an UV/ VIS On-/Offline system. This configuration has an ASS-14 autosampling station on top of the tester and an IPC-16 pump which connects to an ERWEKA SPM 16 or an Analytic Jena Specord 210/16 with two cuvette changers and FRL 624-2 sample collector, all managed via PC and ERWEKA Disso.net software.



Dissolution Tester	Automatic Sampling Station	Peristaltic Pump	UV/VIS Spectrophotometer	Sample Collector	PC + Disso.NET Software
DT 1412	ASS-14	IPC 16	ERWEKA SPM 16 (spe- cial cuvettes needed) or Analytic Jena Specord 210/16 + 2 x cuvette changer	FRL 624-2	~

Technical Specifications

Sample Collector FRL 624 / 724 / 824

Auto sample collector with 6 to 8 channels for sampling up to 26 intervals; 1 driven dosing arm with 8 stainless steel (optional Titanium) dosing needles, RS 232 interface for external control by Disso.net PC software.

Sampling tubes and HPLC vials

26x 8 glass tubes of 12 ml capacity 18x 8 glass tubes of 25 ml capacity 26x 8 HPLC vials of 1.5 ml capacity 26x 8 HPLC vials of 4.0 ml capacity Handling of septa-sealed HPLC vials

System Control with Disso.NET

The Disso.Net Software offers support of all methods manageable with the ERWEKA DT dissolution testers. The Software helps you with standard dissolution jobs, handles qualifying tasks and provides control over each single function and connected device.

- MS SQL database with local or network installion
- Multiple System Suitability Tests for highest reliability.
- Full audit trail according to 21 CFR Part 11 including date, time stamp, user ID
- Integrated workflow for approval and review of reports before publishing
- pH-change support according USP-Method A and B
- Easy XML, PDF, Excel ex-/import for LIMS communication
- Seminal check of the photometer accoding EP
- Daily check of the photometer

Spectrophotometer Options for ERWEKA UV/VIS Syystems + Analytic Jena einfügen

	ERWEKA SPM	Shimadzu UV-1800	Agilent 8454	
Range	190-1100 nM	190-1100 nM	190-1100 nM	
Bandwidth	1 nM	1 nM	1 nM	
Туре	Dual beam scanning		DAD	
Connection	RS 232	USB	LAN	
Special	-	Stand-alone operation possible	Typical scantime for full spectra: 1.5 s	
Height x Width x Depth	260 x 650 x 560 mm	270 x 450 x 490 mm	185 x 344 x 560 mm	
Weight	approx. 26 kg	15 kg	16,5 kg	

Technical specifications for the products described are stated without warranty and subject to change at any time. v.1.0.5.15

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