



DT 950 & DT 9510 ONLINE SYSTEM

SEMI-AUTOMATIC DISSOLUTION TESTING WITH INTEGRATED UV/VIS ANALYSIS

DISSOLUTION ONLINE SYSTEM

HIGHLIGHTS

The ERWEKA Dissolution Online Systems are the perfect, semi-automatic solution for dissolution testing with integrated UV/Vis online analysis.

The DT 950 series with integrated, automatic Sampling station ASS-9 transports freshly taken samples directly to the UV/Vis analysis. The samples are analyzed directly and the data is evaluated and saved using our advanced Disso.NET software.

With the support of several compatible UV/Vis photometer models, a broad wavelength spectrum can be tested and evaluated efficiently. In connection with the maintenance-free pump PVP 820, the customer can trust on highest reliability in dissolution testing.

Dissolution Tester DT 950 & DT 9510 Series

The ERWEKA DT 950 / DT 9510 is the perfect dissolution tester for the ERWEKA dissolution online system. The DT 950 / DT 9510 ensures absolutely reliable and reproducible test results. 100% USP/EP compliant, with a novel, innovative design and the usual ERWEKA quality and with integrated automatic sampling station ASS-9 / 18 and automatic tablet drop.

High-precision pumping with the PVP or IPC pump

With the maintenance-free PVP 820 piston pump with almost wear-free ceramic pump heads, the samples are transported precisely from the dissolution tester to the UV/Vis spectrophotometer. You can choose to integrate the cost-effective IPC 8 peristaltic pump into our dissolution online systems.



Complete control with Disso.NET

The Windows software Disso.NET completely controls the entire dissolution system, manages methods with tests and generates the associated reports. The software tracks all changes that are made using the integrated 21 CFR part 11 compliant Audit Trail. Thanks to the full integration of different photometer models, the UV-Vis evaluation takes place directly in the Disso.NET - so the user has all the data of the dissolution test in one place. Disso.NET features user management with Active Directory integration, allowing seamless system-wide login credentials for users. The USP / EP photometer qualification can also be done on request.

Flexible UV/Vis Photometer Integration

Compatible UV/Vis spectrophotometers offer a high-performance solution for rapidly tracking chemical reactions. Depending on the selected model, they support broad spectrum acquisition and are designed to meet relevant pharmacopeia requirements such as USP and EP. All supported photometers can be fully integrated into Disso.NET, covering everything from hardware control to data evaluation, and can be qualified upon request. Available options include models from leading manufacturers such as Mettler Toledo, Analytik Jena, Thermo Fisher Scientific, and Shimadzu.



KEY FACTS



USP methods 1, 2, 5 and 6



100% USP/EP/JP compliant dissolution testing



Integration of ultra-fast & high-end photometer models



Completely software controlled by Disso.NET



Full integration of all system components in Disso.NET software



User Management with Active Directory

KEY FACTS

100%

100% USP/EP/JP compliant dissolution testing



USP method 1, 2, 5 and 6



External heater for vibration free testing

100% USP/EP/JP-COMPLIANT

DISSOLUTION TESTER DT 950 SERIES

The ERWEKA DT 950 series was developed in accordance with the USP/EP/JP requirements for testing tablets and other dosage forms. It combines the latest embedded-pc technology with excellent and user-friendly design. The drive head can be operated both in the high-head and in the low-head position and thus offers maximum flexibility. As part of the Dissolution Online System, it is completely controlled by the connected Disso.NET software - from the automatic tablet drop, to the control of the motors and the retraction and extension of the automatic sampling station ASS-9.

VERSATILE CONFIGURATIONS

ERWEKA dissolution systems can be configured in many ways and can be adapted to customer requirements and budgets. In addition to the recommended configuration with different photometer models and the maintenance-free piston pump PVP 820, there are variants with the cheaper peristaltic pump IPC 8 and the Analytik Jena Specord 200/210 Plus. If the

The manual drive head with gas spring support enables simple and quick lifting within a few seconds. The DT switches to remote mode during Disso.NET operation and displays speed and temperature. Evaporation is less than one percent within 24 hours (37°C, 50 rpm, 1000 ml). Thanks to its new, long-lasting plastic housing, corrosion is reduced to a minimum. Thanks to its flexible upgradeability, a stand-alone DT 950 Series dissolution tester can be easily expanded to a full dissolution system. The DT 950 is therefore an extremely reliable and futureproof partner for daily dissolution test tasks.

test volume is high, we also offer a DT Online System with a 14-Vessel DT 9510 and the Analytik Jena Specord 200/210.



ULTRA FAST UV/VIS ANALYSIS

AVAILABLE MODELS FROM DIFFERENT MANUFACTURERS




Compatible UV/Vis photometers offer high-performance solutions for fast and reliable analysis in pharmaceutical applications. Depending on the selected model, both diode array systems and double-beam instruments are supported, enabling flexible measurement approaches tailored to specific requirements. With wide wavelength ranges spectrum acquisitions within seconds, our supported models enables precise analysis of a broad range of pharmaceutical samples and compounds.

Available configurations include different light source technologies, such as halogen and deuterium lamps or xenon flash lamps. Combined with high wavelength resolutions and rapid measurement cycles, the systems ensures reliable quantitation and efficient analysis for pharmaceutical QC, R&D, and automated dissolution workflows.

With the ERWEKA Disso.NET, the supported UV/Vis photometer models are seamlessly integrated into all ERWEKA DT 950 Dissolution Systems either online, online/offline or the RoboDis II+ with up to 40 batches. This enables combined reports with detailed dissolution curves and, if necessary, the recalculation of the test data.



KEY FACTS

-  100% USP/EP/JP compliant
-  Double beam or DAD/array technology
-  Ultra-fast cycles in a broad wavelength range
-  Full integration in Disso.NET software

AVAILABLE PHOTOMETER MODELS:

- | Mettler Toledo UV7 (only for DT 950)
- | Analytik Jena Specord 200 & 210 Plus (for DT 950 & DT 9510)
- | Shimadzu 1900i Plus (only for DT 950)
- | Thermo Fisher Evolution Pro (only for DT 950)

TECHNICAL DATA

DT 950, PUMP & PHOTOMETER

DT 950:

Test stations	6 in 2 rows (DT 956) 7 in 2 rows (DT 957) 8 in 2 rows (DT 958)
Speed	20-250 U/min
Vessel volume	400 ml, 1000 ml, 2000 ml
Operation	Touchscreen 7", 800x480 Pixel
Sampling positions	High-head, Low-head, Cleaning mode
USP methods	USP 1, USP 2, USP 5, USP 6
Ambient temperature during operation	+10 °C to +30 °C (Ambient temperature min. -5 °C below set temperature)
Storage & transport temp.	+5 °C to +40 °C
Relative humidity	25-80 % non condensing
Interfaces	1x RS-232, 2x USB, 2x Ethernet/RJ45
Power supply	115/230 V, 50/60 Hz
Fuses	2 A
Protection class	I/EN 61140
Protection type	IP 21/IEC 529
Weight	42 kg
Dimensions (W x H x D)	650 x 850 x 650 mm



METTLER TOLEDO UV7:

Optical Design	Array spectrophotometer with diode-array optics (no moving parts)
Spectral Bandwidth	≤ 1.0 nm
Light source	Xenon flash lamp
Detector	CCD array detector
Spectrometric system	Fixed grating with diode-array detection (full spectrum captured simultaneously)
Wavelength range	190–1100 nm (full spectrum)
Wavelength accuracy	± 0.5 nm
Wavelength registration speed	Full spectrum scan in ~1 s
Wavelength min. data interval	Determined by array pixel spacing (not specified)
Photometric range	-3 to +3 A
Photometric accuracy	± 0.005 A
Stray light 198 nm (KCl)	> 2.3 A equivalent absorbance
Power supply	100–240 V AC, 50/60 Hz
Weight	6.4 kg (including terminal)
Dimensions (W x H x D)	208 × 228 × 255 mm



PVP X20 PUMP:

Channels	6, 7, or 8 (PVP 620/720/820) 12 or 14 (PVP 1220/1420)
Valves	-
Accuracy	+/- 0.5 ml
System compatibility	DT Online System, DT Offline System, DT On-/Offline System
Benefits	Filtration down to 0.22 µm with a flat membrane filtration. Particularly suitable for fully automatic dissolution systems.
Power supply	115 V or 230 V, 50/60 Hz
Weight	21 kg (PVP 620/720/820) 28 kg (PVP 1220/1420)
Dimensions (W x H x D)	280 x 420 x 475 mm (PVP 620/720/820) 275 x 420 x 575 mm (PVP 1220/1420)

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