



DISSOLUTION ONLINE SYSTEM

UV-VIS

The ERWEKA dissolution online systems are the perfect, semi-automatic solution for dissolution testing with automated UV/VIS online analyses.

The DT 950 with the integrated, automated ASS-9 sampling station transports the freshly sampled media directly to the UV/VIS analyzer (several brands available). There the samples can be measured and the results are then stored in ERWEKA's sophisticated Disso.NET dissolution software.

ERWEKA offers several types of UV/VIS analyzers, such as the Mettler Toledo UV7, the Shimadzu 1900i Plus, the Analytik Jena Specord 200/210 Plus or the Thermo Fisher Evolution Pro, all combined with our dissolution tester DT 950 and either a peristaltic pump IPC 8 or a PVP piston pump. All components are controlled by the Disso.NET PC software.



[Click to view video](#)

Ultra-fast UV/Vis analysis – available models from different manufacturers.

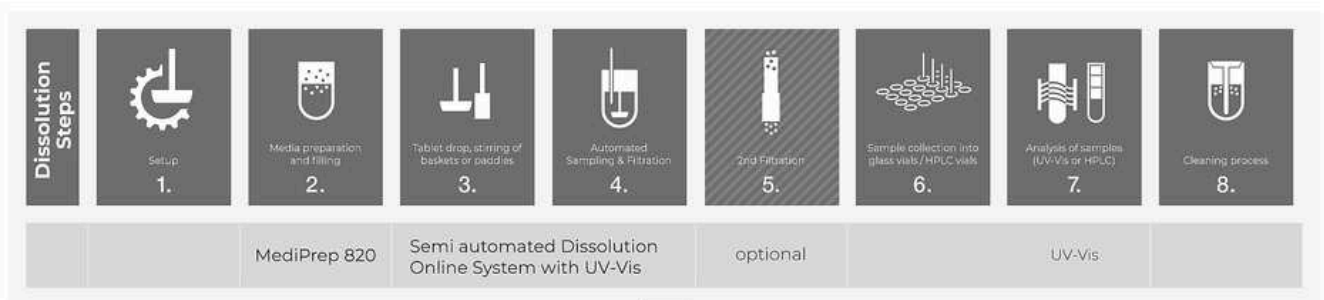
Compatible UV/Vis photometers offer high-performance solutions for fast and reliable analysis in pharmaceutical applications. Depending on the selected model, both diode array systems and double-beam instruments are supported, enabling flexible measurement approaches tailored to specific requirements.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

DISSO.NET

The ERWEKA Disso.NET software is the perfect 21 CFR Part 11 compliant companion for our dissolution systems. The software provides support for all test methods that can be used with the ERWEKA DT dissolution testers, as well as the automated RoboDis II+.

Disso.NET helps with standard dissolution jobs, handles qualification tasks and provides control over every single function of the connected devices (e. g. dissolution tester, UV-Vis spectrophotometer or HPLC analysis device). The Audit Trail also creates detailed logs of all events and time periods. The software additionally includes an easy-to-use editor for comfortable programming of the dissolution methods (for highest repeatability). After finishing the dissolution test, Disso.NET generates comprehensive reports (as PDF-files) with your corporate logo and/or exports the results (e. g. in XML format).

Disso.NET 4 has an Active Directory connection, allowing for cross-system login data and user passwords. Countless passwords are thus avoided and easy handling is ensured.



ADVANCED DISSOLUTION SYSTEM WITH A BROAD FEATURE SET

PRODUCT HIGHLIGHTS



100% USP / EP / JP Compliant

Like all ERWEKA products, the dissolution online systems are 100% USP / EP / JP compliant



Easy Control of the Complete System

Full system control of all connected components with the Disso.NET software



USP Methods 1, 2, 5 and 6

Use of a variety of attachments for different USP methods due to the standardized shaft design



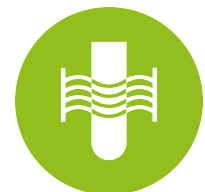
Easy Cleaning

Easy cleaning of the water bath and the set-up area



External Heater

The external flow-through heater reduces the influence of external vibrations and ensures a constant temperature



Advanced UV / Vis Analysis

Different brands of UV / VIS analyzers are available

PROVEN ERWEKA QUALITY THROUGHOUT THE WHOLE SYSTEM

COMPONENTS

HEART OF THE DISSOLUTION ONLINE SYSTEM

DISSOLUTION TESTER DT 950

The DT 950 is the centerpiece of our online system. It is 100% compliant with USP methods 1, 2, 5 and 6, enabling a wide range of dissolution tests to be performed with our system. It also offers the flexible high-head and low-head modes.

PRECISE SAMPLING ACCORDING TO USP SAMPLING POINTS

AUTOMATED SAMPLING STATION ASS-9

The automated sampling station ASS-9 is an add-on module for the DT 950. It allows samples to be taken directly from the vessel in accordance with the USP sampling points. These media are then pumped to the UV-Vis spectrophotometer.





EFFICIENT & VERSATILE PUMP FOR ERWEKA DISSOLUTION SYSTEMS

IPC 8 PERISTALTIC PUMP OR PVP 820 PISTON PUMP

The IPC 8 peristaltic pump offers an accuracy of +/- 0.5 ml and is the basic pump provided with ERWEKA dissolution systems. The PVP piston pump manufactured by Erweka has virtually maintenance-free ceramic heads and is used for high volumes.



ALWAYS THE RIGHT SOLUTION FOR YOUR NEEDS

VERSATILE UV-VIS ANALYSIS DEVICES AVAILABLE

We offer several UV/VIS analysis devices for our online systems, all fully supported by Disso.NET.

- | 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)



ADVANCED DISSOLUTION SOFTWARE FOR PC

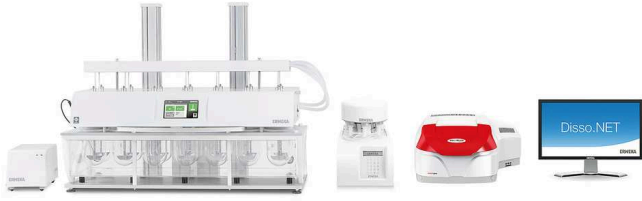
CONTROLLED BY DISSO.NET

Disso.NET takes full control of ERWEKA online systems. The software offers a sophisticated user management, a wide range of features and comprehensive data export functions.

EASILY ADJUSTABLE TO YOUR REQUIREMENTS

DT ONLINE SYSTEM VARIANTS

- | DT 9510 series with 12-14 test stations, IPC 16 peristaltic pump and Analytik Jena Specord 210/16 spectrophotometer for UV-Vis analysis
- | Alternatively ERWEKA PVP 620 or 820 piston pump available for filtration up to 0.22 μm



DISSOLUTION ONLINE SYSTEM UV-VIS

OPTIONS

- | 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)
- | IQ / OQ / PV service & documents
- | Maintenance contracts

DISSOLUTION TESTER DT 950 SERIES

TECHNICAL DATA

Weight	42 kg
Dimensions (H x W x D)	850 x 650 x 650 mm
Voltage	115/230 V; 50/60 Hz
Speed	20-250 U/min
Vessel volume	400 ml / 1000 ml / 2000 ml
Interfaces	1x RS-232, 2x USB, 2x Ethernet/RJ45
Test stations (DT 956)	6 in 2 rows
Test stations (DT 957)	7 in 2 rows
Test stations (DT 958)	8 in 2 rows
USP methods	USP 1 / USP 2 / USP 5 / USP 6
Fuses	2 A
Protection class	I/EN 61140
Protection type	IP 21/IEC 529
Operation	Touchscreen 7", 800x480 Pixel
Sampling positions	High-head / Low-head / Cleaning mode
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

DISSOLUTION TESTER DT 9510 SERIES

TECHNICAL DATA

Weight	110 kg
Dimensions (H x W x D)	850 x 1062 x 650 mm
Voltage	115/230 V; 50/60 Hz
Speed	20-250 U/min
Vessel volume	400 ml / 1000 ml / 2000 ml
Interfaces	1x RS-232, 2x USB, 2x Ethernet/RJ45
Test stations (DT 9512)	12 in 2 rows
Test stations (DT 9513)	13 in 2 rows
Test stations (DT 9514)	14 in 2 rows
USP methods	USP 1 / USP 2 / USP 5 / USP 6
Fuses	2 A
Protection class	I/EN 61140
Protection type	IP 21/IEC 529
Operation	Touchscreen 7", 800x480 Pixel
Sampling positions	High-head / Low-head / Cleaning mode
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

PVP PUMP X20

TECHNICAL DATA

Weight	28 kg (for PVP 1220/1420)
Dimensions (H x W x D)	420 x 275 x 575 mm (for PVP 1220/1420)
Voltage	115 V or 230 V, 50/60 Hz
Pump type	PVP 1220/1420 (for DT 9510)
Channels	12 or 14 (for PVP 1220/1420)
Valves	/
Accuracy	+/- 0.5 ml
System compatibility	DT Online System, DT Offline System, DT On-/Offline System
Benefits	Filtration using 0.45 µm flat membrane filters, with other pore sizes available upon request. Particularly suitable for fully automatic dissolution systems.

IPC PUMP 8/16

TECHNICAL DATA

Dimensions (H x W x D)	125 x 145 x 220 mm
Interfaces	RS 232
Channels	8 or 16
Accuracy	25 ml +/- 5%
Media replacement	Standard
Double filtration (optional)	Only when first filtration with poroplast filters. No media replacement possible when double filtration.
Required type of sample collector	FRL 654 / 754 / 854
System compatibility	DT Offline / DT Online / DT On-/Offline
Advantages	Basic pump possible with DT 950/9510, needs regular replacement of tubing

ANALYTIK JENA SPECORD 200

TECHNICAL DATA

Weight	22 kg
Dimensions (H x W x D)	290 x 590 x 690 mm
Voltage	85–264 V/AC, 50–60 Hz
Optical design	Double beam spectrophotometer with fixed spectral bandwidth (Specord 210 with variable spectral bandwidth)
Spectral bandwidth	1.4 nm
Light source	Combination of deuterium and halogen lamp
Detector	Two silicon photodiodes
Spectrometric system	Monochromator with imaging grating and aspherical quartz-coated optics
Baseline deviation	± 0.0005 A (200–1000 nm; slit 1.4 nm)
Zero point transmission	± 0.05 %T (200–1000 nm; slit 1.4 nm)
Wavelength range	190–1100 nm
Wavelength accuracy	± 0.1 nm (Deuterium line at 656.1 nm)
Wavelength reproducibility	≤ 0.02 nm
Wavelength registration speed	Up to 12000 nm/min
Wavelength min. data interval	0.02 nm
Photometric range	-3 to 3 A
Photometric accuracy UV	± 0.010 A
Photometric accuracy Vis	± 0.003 A
Photometric reproducibility	≤ 0.0005 A
Stray light 198 nm (KCl)	≤ 0.3 %T
Stray light 220 nm (NaI)	≤ 0.03 %T
Stray light 240 nm (NaI)	≤ 0.03 %T
Stray light 340 nm (NaNO₂)	≤ 0.02 %T
Baseline noise at 500 nm (RMS)	≤ 0.0001 A