



DT 950 & DT 9510 Series

Digital dissolution tester with 6 to 14 test stations



ERWEKA
part of **VERDER**
scientific

The DT 950 Series

Digital today. For the challenges of the future.

The ERWEKA DT 950 & 9510 Series are our digital dissolution tester, equipped with the most advanced technology for the requirements of today and the challenges of tomorrow.

With state-of-the-art embedded PC technology, the DT 950/9510 is the first of its kind. The 7" touch display with a modern user interface focuses the user on the most important task the DT 950/9510 has to fulfill - 100% USP/EP/JP compliant dissolution testing, without distractions and errors. For this purpose, we have designed the ERWEKA TestAssist, an intelligent helper that guides the user step by step through the configuration of the dissolution test, provides assistance and makes sure that only compliant parameters can be entered.

In addition to the modern user interface, the DT 950/9510 is completely future-proof. With our "Upgrade your DT" program, it can be upgraded at a later date - e.g. from 6 up to 8 or 12 to 14 test stations, with an automatic tablet drop or an automatic sampling station, if the DT 950/9510 is to be upgraded to a dissolution system at a later date. A switch from low-head to high-head mode is also easily possible at all times. Thanks to the advanced embedded system, software functions can also be added later.

With all these innovations, however, we have not lost sight of the most important thing: The DT 950/9510 Series is 100% USP/EP compliant.



USP methods
1, 2, 5 and 6

100%

100%
USP/EP/JP
compliant



Intuitive
touch interface



Upgradeable
at any time



Method memory



Temperature
measurement per
vessel



The image shows an ERWEKA DT 950 dissolution tester, a white laboratory instrument with a digital display and multiple test vessels. The background is a solid blue color. Three callout boxes are overlaid on the image, each with a line pointing to a specific feature of the machine. The first box points to the top of the machine, the second to the digital display, and the third to the test vessels.

Digital embedded PC technology

The digital embedded PC technology offers all advantages and unlimited possibilities of modern software programming making the DT 950 more future-proof than ever before. DT 950 Series is permanently expanded with additional functions and is thus constantly adapted to the user's requirements and future industry 4.0 developments.

Modern user interface with TestAssist

The modern user interface of the DT 950 focuses the user on the most important function of the DT 950 - dissolution testing.

- TestAssist, the intelligent guide for dissolution testing
- DirectHelp, help directly on the screen with the tap of a button
- Multilanguage operation in English, French, Spanish, Russian, Chinese and German. If you are interested in more languages, contact us.
- Method memory

Upgrade your DT

The hardware of the DT 950 Series enables step by step upgradeability from a manual dissolution tester to a semi-automatic Online-, Offline- or On-/Offline system.

- Upgrade up to 8 test stations
- Optional, automatic tablet drop
- ASS-9 automatic sampling station with 8 temperature sensors with temperature measurement per vessel including offline & standalone tests with temperature recording at every sampling time



AirLift System - easy to use and safe!

The AirLift system makes raising and lowering of the high volume digital dissolution head as easy and safe as ever!

The operator simply pulls the safety lever at the front of the DT 9510, and then pushes a button for either upward or downward movement. Whenever either of the two is released, movement stops immediately, making the AirLift system and handling of the high volume dissolution head as safe as possible. AirLift is an option of the DT 9510 Series dissolution tester and can also be upgraded after purchase.

Modern user interface with TestAssist

The modern user interface of the DT 9510 Series focuses the user on the most important function of the DT 9510 - dissolution testing.

- TestAssist, the intelligent guide for dissolution testing
- Direct-Help, help directly on the screen with the tap of a button
- Multilanguage operation in English, French, Spanish, Russian, Chinese and German. If you are interested in more language, contact us.
- Method memory



Upgrade your DT

The hardware of the DT 9510 Series enables step by step upgradeability from a manual dissolution tester to a semi-automatic Online-, Offline- or On-/Offline system.

- Upgrade up to 14 test stations
- Optional, automatic tablet drop
- ASS-18 automatic sampling station with 14 temperature sensors with temperature measurement per vessel including offline & standalone tests with temperature recording at every sampling time



The DT 9510 Series

High volume digital dissolution testing.

The ERWEKA DT 9510 Series is the bigger sibling of the digital DT 950 Series dissolution tester.

Controlled by the same embedded PC, every component of the DT 9510 is focused on reliable, high volume digital dissolution testing: The test stations (up to 14) are driven by a single, powerful motor and the big waterbath holds the temperature stable due to the thermal inertia of water. This ensures that parallel testing of two batches of samples can be done at precisely the same conditions, making comparison between the two as reliable as possible and 100% USP/EP compliant.

With the new optional AirLift system, the dissolution head of the DT 9510 can be simply raised and lowered by the press of two buttons. Furthermore, DT 9510 Series has the same features as its smaller sibling - digital dissolution testing is done with the help of the latest version of the testing assistant TestAssist and samples can be automatically dropped into the vessel by the optional automatic tablet drop.



USP methods
1, 2, 5 and 6



100%
USP/EP/JP
compliant



Intuitive
touch interface



Upgradeable
at any time



Method memory



Temperature
measurement per
vessel

1, 2, 3, Test!

The DT 950 & DT 9510 testing assistant

The touch interface of the DT 950 & DT 9510 focuses the user on the most important task to be done with our digital dissolution tester: dissolution testing. The central part is the TestAssist, an intelligent assistant with realtime feasibility checks that provides support and guarantees the conformity of the entered parameters according to USP/EP/JP. Dissolution testing thus becomes simple and safe. But we didn't stop at TestAssist - all other functions, such as the control panel, the qualification menu or the service menu, are also designed to connect user and hardware as quickly as possible.



Test configuration in
3 simple steps



Parameterisation
within conform
ranges

TestAssist - dissolution testing easier than ever!

TestAssist is a comprehensive, yet simple wizard for the quick execution of dissolution tests. The user is guided step by step through the parameterisation, whereby incorrect entries are prevented by TestAssist. As soon as the dissolution test is running, the test screen displays all important status information about the test at any time.

Thanks to the large status animation, you can check from anywhere in the lab at a glance whether the test is running within the tolerances: green - all ok, or red - error, something went wrong.

With the help of the intelligent TestAssist, dissolution testing is as easy and fast as ever!



Dissolution test setup within seconds:



Step 1: Select your desired test type and click on a created method or empty parameters.



Step 2: Add a batch ID or in case you selected empty parameters add an apparatus, product name and general information.



Step 3: Here you can see an overview of your chosen test and the method.



Step 4.

Digital dissolution testing

State-of-the-art technology that continues to evolve.

The DT 950 and DT 9510 Series are driven by an embedded PC with an ARM quad-core processor directly integrated into the back of the 7" touch display. The Linux-based ERWEKA software is completely developed in-house, fusing it perfectly with more than 50 years of hardware experience and enabling completely new functions to make dissolution testing easier.

With this new digital technology based on Microsoft's cross platform compatible .NET Core, the DT 950 is your long-term partner for dissolution testing. The software is constantly evolving with new features so that the device can adapt to changing requirements.

In addition to the modern touch interface, the digital embedded PC in the DT 950 also enables other functions, such as convenient printing on network printers or the extensive multilingual capability with more than 5 languages.

The digital DT 950 Series is ready for today's tasks - and the challenges of the future.



Network and USB
printing



Digital Embedded
Technology



Multiple languages
available



Network printing of the DT 950 explained

The technology platform of the DT 950 allows convenient use of network printers from many different manufacturers. Thanks to a practical printer setup, the LAN-connected DT 950 finds all printers in the network. Then all that remains is to select the right driver from a list and the DT 950 prints via the selected printer without any problems.

The DT 950 can currently print on network and USB printers from Hewlett-Packard, Kyocera and OKI. The DT 950 also supports USB printers from Brother. More printers coming soon.

Help, at any time

Each input field has a quickly accessible help function. Are you unsure what to enter in a field? Then just tap on the question mark right next to it and you will get help. This help function is distributed throughout the ERWEKA OS so that you can obtain information at any time.



Deutsch, English, Español, Français, 中文, русский...

The modern architecture of the ERWEKA OS enables a multitude of languages. This makes the DT 950 and DT 9510 the most accessible devices ERWEKA has ever developed. Anywhere in the world.

Direct access for customer service

The service menu gives the user direct access to the most important hardware functions and information of the DT. Serial number and software version can be quickly called up for service cases, and maintenance can be carried out faster and more efficiently. It also displays service contact infos, and an initialization button makes troubleshooting as easy as ever before.



Qualification made easy

Thanks to the new qualification function, qualifying the DT 950/9510 is easy. To do so, simply enter the qualification menu and follow the instructions.

Path to progress

Unveiling our latest software updates for DT 950 & DT 9510.

NEW

Sampling station with temperature sensors

Easily adjust temperature sensors to meet specific requirements and seamlessly record temperature data in each vessel for every sampling time point, whether in standalone/manual or offline mode.



Method memory feature

With our integrated method memory, users can easily create and load methods, customise them and maintain a clear library with user-specific disable and enable rights. Experience unrivalled convenience and efficiency with our method memory function.

Integration of IPC or PVP pump

Optimize your dissolution system with the flexibility to choose between IPC or PVP pumps. Seamlessly add pumps and effortlessly switch between IPC and PVP options. Take full control of PVP functionality via the service menu, adjusting it according to your specific needs. Utilize PVP pumps in tests and adjust flow rates with ease. This feature is available across all our dissolution systems.



Further improved!

Not only on a large scale, but also on a smaller one.

Improved, automatic tablet drop, DT head improvements & water outlet

The tablet drop has been relocated to the upper side of the DT head. This means that the filling can always be seen immediately. The tablet drop can be optionally be controlled automatically.

The DT head has been further improved. In addition to mechanical changes to the guide and a new aluminium lock, the weight has been reduced.

This makes the dissolution tester head easier to handle without losing its robustness.

The water outlet has been lowered further and also moved to the back. This way it does not interfere during normal use of the dissolution tester.

In addition, the outlet has been equipped with a practical quick coupling that allows a hose to be connected quickly and without leaks.



AirLift system for DT 9510 Series

The AirLift System is placed between the two lift-columns and can be activated by pulling the front lever and pressing either the up- or down-button on the right side of the DT 9510 Series.

Upgrade your DT!

Unlimited upgradeability - at any time

Our world is turning faster and faster - this is why we designed a dissolution tester that is ready today for the challenges of tomorrow. The DT 950 and DT 9510 can be upgraded even after the initial purchase - even from 6 up to 8 or 12 up to 14 test stations, with an automatic tablet drop or an automatic sampling station with temperature sensors in each vessel. The high degree of modularity means that, for example, a 6-station stand-alone DT 956 can be

transformed into the heart of a complete dissolution HPLC On-/Offline system with direct injection, 8 test stations and Disso.NET 4 software within a very short time. The DT 950 and DT 9510 remains flexible throughout its entire instrument cycle - because who knows now what challenges we will be facing in a few years?



DT 950 & DT 9510 Series

Device Upgrades:

- Extension to up to 8 and 14 test stations
- Automatic tablet drop
- USP methods 1, 2, 5 and 6
- Automatic sampling station low-head or high-head with 8 and 14 temperature sensors



Automation level >>

Dissolution Offline System

- Automatic sample collection with our FRL sample collector
- IPC or PVP pump
- Control via PC with Disso.NET 4 with Audit Trail and SQL database
- 21 CFR part 11 compliant



FRL sample collector for
DT Offline System with Disso.NET



Analytik Jena spectrophotometer
for DT Online UV/Vis System



Automation level >>

Dissolution Online System

- Automatic UV/Vis-Analysis with spectrophotometer
- IPC or PVP pump
- Control via PC with Disso.NET 4 with Audit Trail and SQL database
- 21 CFR part 11 compliant
- Direct data evaluation in the software

Dissolution On-/Offline System

- Dissolution HPLC On-/Offline System or Dissolution On-/Offline System with UV/Vis
- Control via PC with Disso.NET 4 with Audit Trail and SQL-Database
- 21 CFR part 11 compliant
- Automatic HPLC- or UV-Vis analysis with sample collector
- With HPLC: Automatic handoff of the sample to the HPLC-analysis



Technical data DT 950 Series

	DT 956	DT 957	DT 958
Height, width, depth	850 mm / 650 mm (without heater) / 650 mm		
Weight	42 kg		
Voltage	115/230 V; 50/60 Hz		
Fuses	2 A		
Protection class	I/EN 61140		
Protection type	IP 21/IEC 529		
Test stations	6 in 2 rows	7 in 2 rows	8 in 2 rows
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		
Heater DH 1520i			
Power	1500 W		
Temperature	30-45 °C (± 0,2)		
Interface	RS-232		



Technical data DT 9510 Series

	DT 9512	DT 9513	DT 9514
Height, width, depth	850 mm / 1062 mm (without heater) / 650 mm		
Weight	110 kg		
Voltage	115/230 V; 50/60 Hz		
Fuses	2 A		
Protection class	I/EN 61140		
Protection type	IP 21/IEC 529		
Test stations	12 in 2 rows	13 in 2 rows	14 in 2 rows
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		
Heater DH 1520i			
Power	1500 W		
Temperature	30-45 °C (± 0,2)		
Interface	RS-232		



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