



DT 950 / DT 9510 SERIES STANDALONE & OFFLINE SYSTEMS

**DIGITAL DISSOLUTION TESTER WITH 6 TO 14 TEST STATIONS**

# DIGITAL DISSOLUTION TESTING

## DT 950 SERIES

The ERWEKA DT 950 is an advanced digital dissolution tester, designed to meet today's demanding standards while being adaptable for future challenges. Equipped with cutting-edge embedded PC technology, it ensures full compliance with USP, EP, and JP methods 1, 2, 5, and 6, offering reliable and precise dissolution testing.

Its 7" touch display provides an intuitive user interface, and the intelligent TestAssist guides users step by step through the setup and testing process, eliminating errors and ensuring only valid parameters are used. This user-friendly approach makes test configurations straightforward, without the need for extensive training.

The DT 950, coming with ERWEKA's clean white design is designed for future upgrades, allowing users to expand from 6 to 8 test stations or from a manual dissolution tester to a semi-automatic Offline-, Online- or On-/Offline system.

It is possible to add features like automatic tablet drop or temperature sensors for each vessel. It also supports easy setup change between low-head and high-head modes, and software updates provide new features to be added over time.

For enhanced accuracy, the DT 950 separates the heater from the main device to minimize vibration. Data export to FTP servers e.g. for LIMS connection is supported, and the system includes enhanced IT security features to safeguard data.

With Audit Trail, method management and user management the DT 950 delivers a powerful, adaptable, and future-proof solution for dissolution testing, combining advanced technology with ease of use.





### Advanced embedded technology

The DT 950 & DT 9510 Series feature an in-house developed embedded PC with Linux-based ERWEKA OS, combining ease of use with ERWEKA's dissolution testing expertise. The embedded digital technology offers all the benefits and the adaptability of a modern software, with regular updates that add new functions to meet evolving industry needs - making the DT Series a reliable, future-ready solution.

### 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, instant on-screen support with the tap of a question mark button
- | Multilanguage operation in English, French, Spanish, Italian and German
- | Method management: Create and edit methods for later use in TestAssist
- | User management: Control user access and rights

### Option: Automatic tablet drop

- | Automatic drop of formulation for low-head & paddle
- | Improved tablet drop to reduce moisture on formulations

### Automated sampling station ASS-9

- | Move up/down of sampling probes
- | Repeatable, USP conform withdrawal position
- | Prefiltration with poroplast tip filter (1, 4, 10 & 20 µm)
- | Optional temperature sensors to record medium temperatures in all vessel (8 sensors)

## KEY FACTS



USP methods 1, 2, 5 and 6



Intuitive touch interface



User & method management



Audit Trail - full 21 CFR Part 11 compliance



100%

100% USP/EP/JP compliant



+

Upgradeable at any time



Temperature measurement per vessel



FTP data export (e.g. for LIMS)

## KEY FACTS



USP methods 1, 2,  
5 and 6



Intuitive  
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Temperature  
measurement per  
vessel



FTP data export  
(e.g. for LIMS)

# HIGH VOLUME DIGITAL DISSOLUTION TESTING

## DT 9510 SERIES



# OVERVIEW

## DT 9510 SERIES

The ERWEKA DT 9510 Series is the extended-vessel version of the digital DT 950 Series dissolution tester.

Controlled by the 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% compliant with the requirements by USP/EP/JP.

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

### Option: Automatic tablet drop

- | Automatic drop of formulation for low-head & paddle
- | Improved tablet drop to reduce moisture on formulations

### Automated sampling station ASS-18

- | Move up/down of sampling probes
- | Repeatable, USP conform withdrawal position
- | Prefiltration with poroplast tip filter (1, 4, 10 & 20  $\mu\text{m}$ )
- | Optional temperature sensors to record medium temperatures in all vessel (14 sensors)



### Option: AirLift System - Easy to use and safe!

The AirLift system makes raising and lowering of the dissolution tester head as easy and safe as never before! 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 buttons is released, movement stops immediately, making the AirLift system and handling of the dissolution head as safe as possible. AirLift is an option of the DT 9510 Series dissolution tester and can also be upgraded after purchase.

# DIGITAL TODAY. FOR THE CHALLENGES OF THE FUTURE.

## THE DIGITAL OFFLINE SYSTEM

The Digital Offline System for the DT 950 & 9510 Series is the next step in expanding the capabilities in the field of digital dissolution testing. It makes use of the advanced technology from the DT 950 & 9510 Series for the first step of dissolution automation: Fully automated sample withdrawal and sample storage for subsequent sample analysis.

With the updated TestAssist, the user can easily configure and start dissolution tests with automated sampling on our 7" touch display. The user is guided through the dissolution test in few simple steps, enabling 100% USP/EP/JP compliant dissolution testing without distraction and errors and ensuring constantly valid parameters.

But there is more - with the clearly organised user management, easy handling of the complete digital offline system is only a button-tap away. Users can be easily configured with individual rights, making it easy to restrict functions only to authorized users - for example administrators and operators. Of course, the offline system includes all the other software features of the DT 950 platform, including Audit Trail, method management, sampling station with temperature sensors in each vessel, USB update and FTP data export (e.g. for LIMS).

The Digital Offline System is our most advanced dissolution system, offering an easy-to-use first step into dissolution automation.





### TestAssist functions & setup sampling via FRL

- | Easy sample time-point configuration
- | Advanced offline system settings
- | Updated test interface for more test run information and transparency
- | Setup sampling via FRL:
  - | Min. 5 min intervals
  - | Up to 7 days runtime
  - | 25 ml tubes: 18x8 samples (DT 950)/ 9x14 samples (DT 9510)
  - | 1.8, 4 & 10 ml tubes: 26x8 samples (DT 950)/ 13x14 samples (DT 9510)

### Offline system cleaning

The system comes with a programmed cleaning routine for cleaning & emptying of tubing.

### Full control of connected hardware

The digital embedded PC technology in the digital dissolution tester DT 950 and DT 9510 take full control of the connected system hardware: The pump, the automated sampling station ASS-9/-18 and the sample collector. An external computer is not required, saving space, energy and maintenance.

## KEY FACTS



USP methods 1, 2, 5 and 6



Full stand-alone control of connected hardware



User & method management



Audit Trail - full 21 CFR Part 11 compliance



100% USP/EP/JP compliant



Upgradeable at any time



Temperature measurement per vessel



FTP data export (e.g. for LIMS)

# PATH TO PROGRESS

## SOFTWARE FUNCTIONS

The ERWEKA DT 950/9510 offers a range of powerful software features designed to optimize workflow efficiency and user experience. With an intuitive user interface and built-in direct help functions, the system ensures smooth operation at every step. A convenient initialization routine simplifies routine checkups, while OQ/PQ status helps streamline qualification processes. Key functionalities such as TestAssist and method management enhance testing efficiency, and the comprehensive user management system allows for secure and controlled access. The DT 950/9510

also includes synchronization with an NTP time server, support for multiple languages (EN, DE, FR, IT, ES), and flexible data handling options like USB & network printing and FTP export for seamless integration with systems such as LIMS. Additionally, the integrated service menu allows for easy identification and troubleshooting of errors on individual components, simplifying maintenance on the DT 950 platform.



### 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 or offline mode.



### METHOD MANAGEMENT & APPROVAL

With our integrated method management, users can easily create, edit, copy, and customize methods, maintaining a clear method library with user-specific enable and disable rights. The optional method approval function ensures that only authorized and fully reviewed methods are available for testing. Previously created and approved methods can be directly applied in TestAssist, streamlining the setup process and supporting compliance throughout your workflow.



### INTEGRATION OF IPC OR PVP PUMP

Optimize your dissolution system with the flexibility to choose between the standard IPC peristaltic pumps or advanced PVP piston pumps. 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.



## USER MANAGEMENT

The user management of the ERWEKA DT 950/9510 systems provides robust control over access and permissions, ensuring that sensitive data and functionalities are secure. Administrators can easily create and manage user profiles, assigning specific permissions and access levels based on operational requirements. This functionality not only enhances security by restricting access to authorized personnel but also streamlines the workflow, allowing users to quickly navigate the system according to their designated permissions.



## UPDATE WITH USB STICK

Insert the USB stick before booting the device. When the device starts up, it automatically detects the USB stick and checks it for a valid software update. The current and target versions are shown on the update screen. The update process then proceeds smoothly, with continuous progress displayed on the screen. Before starting the update, users can choose whether they want to update with or without data migration. This update feature saves time and money, is user-friendly and ensures that the device is updated transparently and securely.



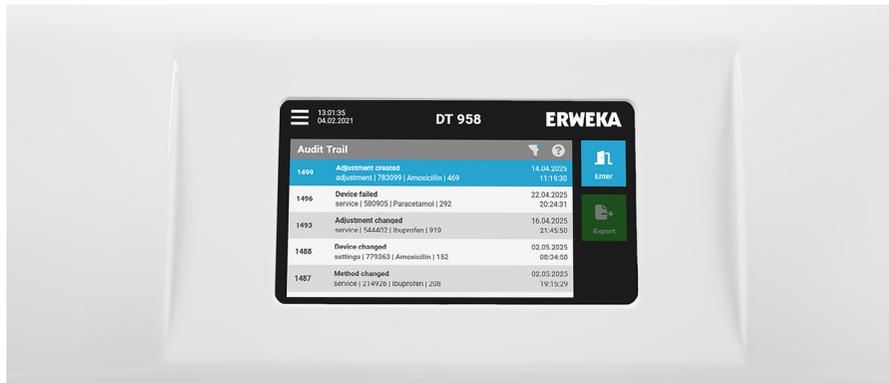
## FTP DATA EXPORT (E.G. FOR LIMS)

The FTP data export feature allows seamless transfer of OQ and test data from the DT 950/9510 devices to a network FTP server, ensuring long-term storage and easy access. Data can be exported as PDF files for device-independent archiving or as XML files for integration with superior software systems such as LIMS. Using standard FTP protocol, the client on the DT 950/9510 communicates with a central server to exchange files. Once configured and activated, FTP export or printing operations run automatically, enabling efficient and secure data transmission.

# COMPREHENSIVE AUDIT TRAIL

## FULL 21 CFR PART 11 COMPLIANCE

Our latest software release for the DT 950/9510 Dissolution Tester introduces an advanced, fully integrated Audit Trail feature, developed to meet the requirements of 21 CFR Part 11. This regulation, mandated by the FDA, sets forth criteria for electronic records and electronic signatures to ensure traceability, integrity, and accountability



## AUDIT TRAIL OVERVIEW & ACCESS

The Audit Trail provides a centralized menu with a clearly structured list view, displaying every audited event on the instrument. The list includes core information for each entry, such as Audit ID, Event (e.g., "Adjustment performed"), User, changed values, the reason and the precise Date & Time of occurrence.

Access to the Audit Trail menu is strictly permission-based.

in pharmaceutical environments. With our Audit Trail, users benefit from robust data integrity, transparent process documentation, and complete regulatory compliance - key requirements for modern laboratory operations.



## DETAILED AUDIT ENTRY INFORMATION

Each audit entry offers insight into the system and its user actions. By selecting an individual audit record, users can view:

- Audit ID, System, User, Date & Time Stamp, Event, Description, Reason (where applicable), Changes (where applicable), including the name of each changed parameter, with old and new values

Even when the Audit Trail is deactivated, all events continue to be recorded; however, the system will not require a reason for changes. This ensures a continuous record of activity, maintaining transparency.



## POWERFUL FILTERING & EXPORT FUNCTIONS

To facilitate efficient review and reporting, the Audit Trail offers extensive and granular filtering capabilities. Users can refine results by combining filters such as:

- | Audit ID (range), Date (range), User, Topic, Scope (e.g., User events, Adjustment events, System Settings events, Method events, Test events), Detailed topic filters

Export options include printing (via USB or network), as well as PDF export to an FTP server.



## COMPREHENSIVE AUDIT TRAIL COVERAGE

The Audit Trail provides comprehensive monitoring of all critical system operations. It records every change to system settings, adjustments, test runs, methods, and user management actions, each with a mandatory reason when required.

System settings and adjustments—such as heater, waterbath, sampling station, and pump—are fully tracked with user input. Test runs are audited at start and finish; aborted or failed tests are logged with reasons. Method creation, editing, approval, and deletion are recorded, with changes documented during edits. User management tracks account creation, auditing, password changes and resets (without saving passwords), while all logins, logouts, and failed attempts are logged for security. Changes to OQ/PQ status are also recorded, ensuring complete traceability.



## BACKUP & RESTORE FUNCTIONS

Through the Control Panel, users can access the Backup & Restore menu to manage and safeguard data on the DT 950/9510 Dissolution Tester. With this feature, authorized users can easily back up all relevant information—including methods, user profiles, recent OQ and test reports, device settings, and the full audit trail—to a USB stick.

Restoring data is straightforward. Users can choose from previously created backup files on a USB stick, making it simple to select the desired data version. Before restoring, the system prompts users to create a current backup and requires confirmation to proceed. Every backup and restore event is recorded in the audit trail.

100%

100% USP/EP/JP  
compliant

# COMPLIANCE BY DESIGN

## PRECISION AND RELIABILITY

The ERWEKA DT 950/9510 series embodies the principle of compliance by design, ensuring full adherence to USP, EP, and JP standards.

With features such as advanced broken belt detection, the system enhances operational reliability by promptly alerting users to potential issues.

The sealed tablet drop mechanism guarantees contamination-free testing, while the automatic vessel centering function optimizes alignment for accurate results.

In addition, we offer shafts in various lengths suitable for different vessel types—including Appex, 1-liter, and 2-liter vessels. This provides you with maximum flexibility for your laboratory workflows.

Trust the DT 950/9510 to deliver precise and compliant results, tailored to meet the demands of modern pharmaceutical testing.



# VERSATILE USAGE

## AS LOW-HEAD OR HIGH-HEAD

ERWEKA's dissolution tester series DT 950 & DT 9510 offer two different operating modes which differ by the position of the dissolution head.



### LOW-HEAD (LH) WITH LESS EVAPORATION

The low-head mode on DT 950 & DT 9510 devices is the standard mode and usually comes in conjunction with a system configuration with automated sampling station (ASS-9 or ASS-18). Benefits are the closed vessels and therefore low evaporation. The low-head mode is most suitable for testing tablets and capsules.



### HIGH-HEAD (HH) WITH EASY ACCESS TO THE VESSEL

The high-head mode is preferred for manual testing and manual sampling on DT 950. To reduce evaporation, vessels are covered with a cover. Longer shafts are available for high-head mode. The high-head mode can be used for tablets, capsules as well as powder, granulates etc.

## CLEANING POSITION

The cleaning position is the highest position of the dissolution testers' head. It makes cleaning effortless and easy on the DT 950 & DT 9510.

# THE FASTEST WAY TO YOUR DISSOLUTION TEST

## TESTASSIST

### THREE TEST TYPES

With TestAssist, you can start tests in three distinct ways to suit various workflow needs:

### METHODS

Use pre-defined methods with fixed parameters, where only the batch ID needs to be entered.

### DIRECT TEST

Manual input of all test parameters for a quick test.

### USE LAST PARAMETERS

Quickly load the parameters of the last test, adjusting as needed.

### SELECT BETWEEN STANDALONE AND OFFLINE MODE

The TestAssist in the DT 950 & DT 9510 offers powerful standalone and offline system functions to make dissolution testing smoother and easier than ever before. In the TestAssist wizard, users can configure settings for standalone tests as well as for the pump and FRL directly, select rack models, specify sampling volumes, and access specific service menus for offline system components like pump and FRL sample collector. Additionally, the control panel allows users to configure the FRL rack for precise alignment with testing needs.

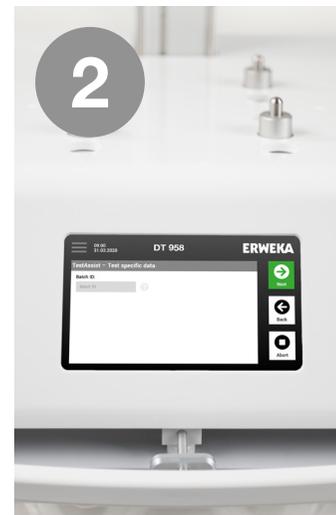
TestAssist guides you step by step through parameter setup, preventing errors and ensuring that all inputs meet required

standards. Once testing begins, the display provides an easy-to-read status animation, visible across the lab: green means all is well and red indicates an issue, enabling quick responses without interrupting other tasks. Beyond TestAssist, all other functions - like the control panel, qualification menu, and service menu - are thoughtfully designed for seamless connection between user and hardware.

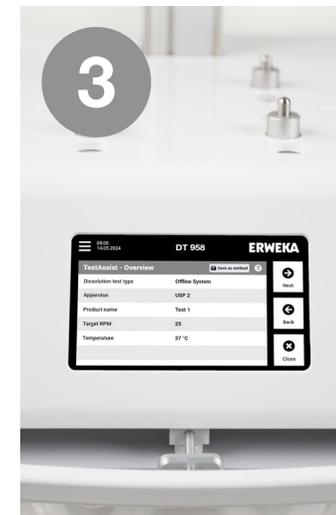
The DT 950 & DT 9510 systems brings reliability and simplicity to dissolution standalone and offline testing, making it a dependable choice for all dissolution testing needs.



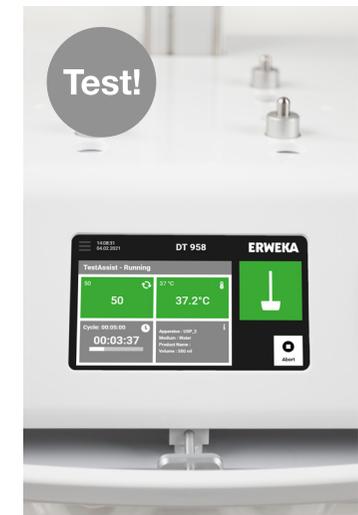
Select your desired test type (Standalone or Offline) and click on a created method or empty parameters.



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



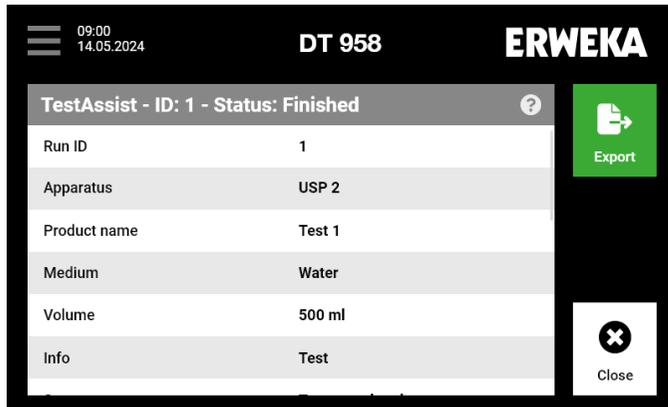
In the overview, you can review if the chosen method parameters match the ones that should be used for the test.



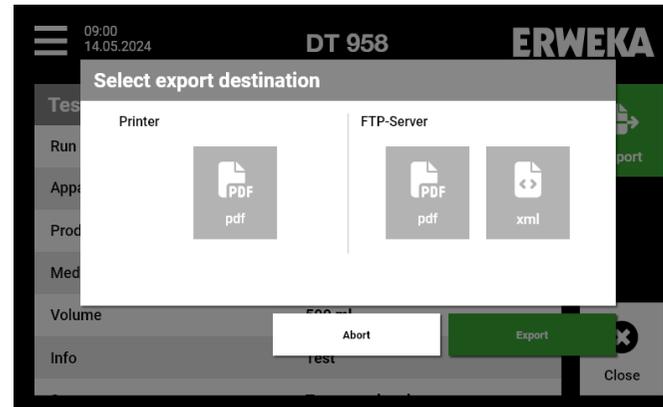
Start your dissolution test.

# SEAMLESS EXPORT AND DATA MANAGEMENT

## MULTIPLE EXPORT POSSIBILITIES



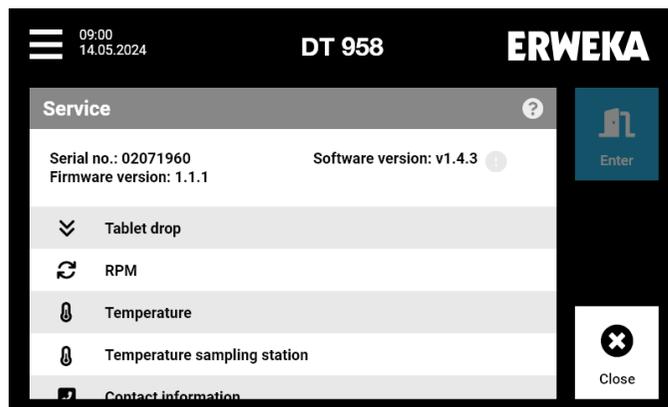
Exporting test results is quick and easy. The DT 950 & DT 9510 offer multiple options to match your data management workflows, including PDF printing, FTP export in PDF or XML formats, and the convenience of automatic export or printing after each test. For added flexibility, the last 10 test and OQ results are always available for re-export or reprinting, making



it easy to retrieve data on demand. The system's network printing capability further supports smooth integration with laboratory systems, providing a seamless flow of information within your data landscape.

## DIRECT ACCESS FOR SERVICE AND SIMPLIFIED QUALIFICATION

With a dedicated service menu, the DT Series makes maintenance and troubleshooting easy. Users can quickly access key hardware information, such as serial number and software version, view service contact details, and use the initialization button to streamline resets. For qualification, the DT 950 & DT 9510 offer a simple, step-by-step guide, helping laboratories maintain ongoing compliance with minimal effort.



## HELP AT ANY TIME

ERWEKA OS integrates quick-access help functions to support users every step of the way. By tapping the question mark next to any input field, users can instantly access information on what to enter, ensuring smooth and confident operation throughout.

## MULTILINGUAL SUPPORT

Designed for laboratories worldwide, the DT 950 & DT 9510 support multiple languages, including English, German, French, Spanish and Italian. This feature makes these ERWEKA models the most accessible and adaptable dissolution testers yet, uniting global teams with a single, versatile platform.

# UPGRADE YOUR DT

## DT 950/9510 DISSOLUTION SYSTEMS

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 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?



### DISSOLUTION OFFLINE SYSTEM

- | Automatic sample collection with our FRL sample collector, TestAssist functions plus setup via FRL (1.8, 4, 10 and 25 ml tubes available)
- | IPC or PVP pump
- | Audit Trail with filter functions & method management
- | 21 CFR part 11 compliant
- | Programmed cleaning routine for cleaning & emptying of tubing

### DISSOLUTION ONLINE SYSTEM

- | Automatic UV/Vis-Analysis with spectrophotometer
- | IPC or PVP pump
- | Control via PC with Disso.NET 4
- | Audit Trail with filter functions
- | Backup & restore data of SQL database
- | LIMS data export/import functions
- | Electronic signatures
- | 21 CFR part 11 compliant
- | User management & Active Directory connection
- | Method management



## DISSOLUTION ON-/OFFLINE SYSTEM WITH UV-VIS

- | Automatic UV-Vis analysis with spectrophotometer and sample collector
- | IPC or PVP pump
- | Control via PC with Disso.NET 4
- | Audit Trail with filter functions
- | Backup & restore data of SQL database
- | LIMS data export/import functions
- | Electronic signatures
- | 21 CFR part 11 compliant
- | User management & Active Directory connection
- | Method management

## DISSOLUTION ON-/OFFLINE SYSTEM WITH HPLC

- | Automatic handoff of the sample to the HPLC-analysis
- | IPC or PVP pump
- | Control via PC with Disso.NET 4
- | Audit Trail with filter functions
- | Backup & restore data of SQL database
- | LIMS data export/import functions
- | Electronic signatures
- | 21 CFR part 11 compliant
- | User management & Active Directory connection
- | Method management

# TECHNICAL DATA

## DT 950 / DT 9510 SERIES & OFFLINE SYSTEM

### 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

### DT 9510:

Test stations	12 in 2 rows (DT 9512) 13 in 2 rows (DT 9513) 14 in 2 rows (DT 9514)
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	110 kg
Dimensions (W x H x D)	1062 x 850 x 650 mm

## FRL 6/7/854:

Channels	6, 7 or 8
Max. capacity (not for 25 ml test tubes)	26 sample intervals
Valve	Integrated 3 way valves
FRL racks	26 x 8 / 1.5 ml HPLC vials 26 x 8 / 4.0 ml HPLC vials 26 x 8 / 10 ml test tubes 18 x 8 / 25 ml test tubes
Voltage $\pm 10\%$	115 - 250 VAC; 50 / 60 Hz
Weight	25 kg
Dimensions (W x H x D)	700 x 585 x 515 mm

## PVP PUMP X20:

Pump	PVP 620/720/820 (for DT 950) PVP 1220/1420 (for DT 9510)
Channels	6, 7 or 8 (PVP 620/720/820) 12 or 14 (PVP 1220/1420)
Valve	-
Accuracy	+/- 0.5 ml
System compatibility	DT Offline System, DT Online System, DT On-/Offline System
Benefits	Filtration down to 0.22 $\mu\text{m}$ with a flat membrane filtration. Particularly suitable for fully automatic dissolution systems.
Power connection	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)

## IPC PUMP 8/16:

Channels	8 or 16
Accuracy	25 ml +/- 5%
Media replacement	Standard
System compatibility	DT Offline System, DT Online System, DT On-/Offline System
Benefits	Basic pump possible with DT 950/9510, needs regular replacement of tubing
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

## HEATER DH 1520I:

Power	1500 W
Temperature	30-45 °C ( $\pm 0.2$ )
Interface	RS-232

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# VERDER

## VERDER SCIENTIFIC

# ENABLING PROGRESS.

Under the roof of VERDER SCIENTIFIC we support thousands of customers worldwide in realizing the ambition we share.

As their technology partner behind the scenes, we deliver the solutions they need to make progress and to improve the everyday lives of countless people. Together, we make the world a healthier, safer and more sustainable place.

