

# Digital Offline Systems

Fully automated sampling for the digital  
DT 950 & DT 9510 Series



**ERWEKA**

# The Digital Offline System

Digital today. For the challenges of the future.

The Digital Offline System for DT 950 & 9510 Series is the next step to utilize the power of digital dissolution testing. It expands the advanced technology used in the DT 950 & 9510 Series to the first step of dissolution automation: fully automated sampling and storing in vials for separate analysis.



With the updated TestAssist, the user can easily configure and start dissolution tests with automated sampling on our 7" touch display. The design principles first introduced with the DT 950 have been applied to offline testing, making it as fast, easy and error-proof as never before. The user is guided through the dissolution test with automated sampling in few simple steps, enabling 100% USP/EP/JP compliant dissolution testing without distraction and errors and ensuring constantly compliant parameters.

But there is more - with the clearly organised user management, conform 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, Operators and Service technicians. Of course, the offline system includes all the other software features of the DT 950 platform, including method memory, 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 stand-alone dissolution system, offering an easy-to-use first step into dissolution automation.



USP methods  
1, 2, 5 and 6



100%  
USP/EP/JP  
compliant



Full stand-alone  
control of connected  
hardware



Any DT 950/9510 can  
be upgraded to a  
digital offline system



Method memory



Temperature measu-  
rement per vessel



Update via  
USB



FTP Data export  
(e.g. for LIMS)



## TestAssist for digital dissolution offline testing

The intelligent TestAssist for digital offline testing:

- Easy sample time-point configuration
- Advanced offline system settings
- Updated test interface for more test run information and transparency

## User management

The clearly organised user management enables flexible access control for the digital dissolution system.

- Easy-to-use user rights management
- Password complexity guidelines for safe access control

## Stand-alone 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, and thanks to the digital technology, without losing comfortable features and USP/EP/JP compliance.



Automated sampling station ASS-9



DT 950 Series with up to 8 test stations

PVP or IPC pump

# DT 950 Offline System

## Automated offline sampling for 6-to-8 test stations

The ERWEKA DT 950 Offline System with IPC pump and sample collector FRL is available as 6, 7 or 8 test station configuration. The digital embedded technology inside the DT 950 takes control over all connected hardware - both the 6, 7 or 8-channel piston pump PVP and the FRL sample collector are seamlessly integrated into the TestAssist. This makes dissolution testing with fully automated sample collection as quick and easy as never before. This system is also optionally available with the IPC peristaltic pump with 8 channels.



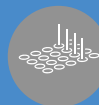
The step-by-step approach of TestAssist speeds up the setup time tremendously: Sample timepoints are easily created, and offline testing specific settings such as rack size and pre-pump volumes are quickly set. Thanks to the upgradeability features of the DT 950, every DT 950 can be upgraded to a digital offline system.



For up to 8 test stations



6/7/8-channel pump



Sample collector with up to 8 channels



Different vials available

Sample collector FRL

# DT 9510 Offline System

## Automated, high-volume offline sampling for 12-to-14 test stations

The ERWEKA DT 9510 Offline System with IPC pump and sample collector FRL is available as 12-to-14 test station configuration. The digital embedded technology inside the DT 9510 takes control over all connected hardware - both the 12-14-channel PVP pump and the FRL sample collector are seamlessly integrated into the TestAssist. This makes dissolution testing with fully automated sample collection as quick and easy as never before.



The step-by-step approach of TestAssist speeds up the setup time tremendously: Sample timepoints are easily created, and offline testing specific settings such as rack size and pre-pump volumes are quickly set.

Thanks to the upgradeability features of the DT 9510, every DT 9510 can be upgraded to a Digital Offline System.



For up to 14 test stations



12-14-channel pump



Sample collector with up to 2x8 channels



Different vials available



DT 9510 Series with up to 14 test

AirLift system for easy raising and lowering



stations



PVP or IPC pump



Sample collector FRL

# 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. 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 950/9510 explained

The technology platform of the DT 950/9510 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.



## User management

The easy-to-use user management enables flexible access control over all parts of the system - from TestAssist, to reports and the control panel. Password complexity ensures safe passwords and a safe system.

## TestAssist - Fit for our Offline System

The convenient test assistant has been further developed for offline systems. TestAssist can now easily load previously defined methods, use previous tests as templates or save a newly created test run with all parameters as a new method. This enables fast and error-free testing with the entire system.



## Qualification made easy

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



## Technical data DT 950 / DT 9510 Series

	DT 956	DT 957	DT 958
Height, width, depth	850 mm / 650 mm (without heater) / 650 mm		
Weight	42 kg		
Test stations	6 in 2 rows	7 in 2 rows	8 in 2 rows

	DT 9512		DT 9514
Height, width, depth	850 mm / 1062 mm (without heater) / 650 mm		
Weight	110 kg		
Test stations	12 in 2 rows	13 in 2 rows	14 in 2 rows

## Technical data for both DT 950 & DT 9510 Series

Voltage	115/230 V; 50/60 Hz
Fuses	2 A
Protection class	I/EN 61140
Protection type	IP 21/IEC 529
Speed	20-250 U/min
Vessel volume	400 ml / 1000 ml / 2000 ml
Temperature control	1x PT 100 temperature sensor in water bath
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
<b>Heater DH 1520i</b>	
Power	1500 W
Temperature	15 - 50 °C (± 0.2)
Interface	RS-232

## Technical data FRL 6/7/854

<b>Channels</b>	6, 7 or 8
<b>Max. capacity (not for 25 ml test tubes)</b>	26 sample intervals
<b>Valve</b>	Integrated 3 way valves
<b>FRL racks</b>	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
<b>Weight</b>	25 kg
<b>Dimensions: width / depth / hight</b>	700 mm / 515 mm / 585 mm
<b>Voltage ± 10 %</b>	115 - 250 VAC; 50 / 60 Hz

## Technical Data PVP Pump x20

<b>Pump</b>	PVP 620/720/820 (for DT 950), PVP 1220/1420 (for DT 9510)
<b>Channels</b>	6, 7 or 8 (PVP 620/720/820), 12 or 14 (PVP 1220/1420)
<b>Valves</b>	-
<b>Accuracy</b>	+/- 0.5 ml
<b>System compatibility</b>	DT Online System, DT Offline System, DT On-/Offline System
<b>Benefits</b>	Filtration down to 0.22 µm with a flat membrane filtration. Particularly suitable for fully automatic dissolution systems.
<b>Dimensions (HxWxD)</b>	420x280x475 (PVP 620/720/820), 420x275x575 (PVP 1220/1420)
<b>Weight</b>	21 kg (PVP 620/720/820), 28 kg (PVP 1220/1420)
<b>Power connection</b>	115 V or 230 V, 50/60 Hz

# Technical Data IPC Pump 8/16

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



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