ERWEKA systems

Dissolution Offline System

Semi-automated dissolution system
Semi-automated dissolution testing
Dissolution Offline System

The ERWEKA Dissolution Offline System is the ideal semi-automatic solution for dissolution testing with automated sampling and subsequent sample storage for later analysis. The system is controlled by a DT 820 series dissolution tester with advanced intelligence.

The DT 820 series equipped with i-Version comes with integrated intelligence for controlling the offline sampling system, which consists of an auto sampling station ASS-8 connected to the DT, a pump (peristaltic or piston) and the sample collector of the FRL series for storing the samples in glass tubes or sealed HPLC vials.

This configuration does not require an additional PC or any software and therefore saves space, money and last but not least software validation work.

Highlights

- 100% USP/EP/JP compliant
- Direct control of the complete system by DT 820
- USP methods 1, 2, 5 and 6
- Sample collector FRL 6/7/854

New!

DT 820 Series

As the main control device, the dissolution tester of the DT 820 series is central to the ERWEKA Dissolution Offline System. By default, the Offline System is equipped with a DT 820 in low-head mode. Optionally, the system can also be operated in high-head mode.

IPC 8 Pump

The peristaltic pump IPC 8 is the basic pump in the ERWEKA dissolution systems and transports the test medium via eight channels to the compact sample collector of the FRL 854 series. Alternatively, ERWEKA offers the practically maintenance-free PVP 820 within the Dissolution Offline System.

FRL 854 Series

The sample collector FRL 6/7/854 offers a space-saving footprint and can store up to 26 samples per vessel.
Comprehensively configurable
ERWEKA Dissolution Offline Systems

Our semi-automated Dissolution Offline Systems distinguish themselves in particular through a high degree of flexibility. Specify your Offline System tailored to your individual needs.

The following system configurations are our space-saving solutions and perfectly suited for testing of smaller tablet batches:

- Dissolution Offline System with DT 820 series, PVP 820 series and FRL 854 series (see picture)
- Dissolution Offline System with DT 820 series, IPC 8 and FRL 854 series

The following system configurations are perfectly suited for testing of larger quantities:

- Dissolution Offline System with DT 1610 series, PVP 1420 series and FRL 854/2 series (see picture)
- Dissolution Offline System with DT 1610 series, IPC 16 and FRL 854/2 series

Dissolution Tester
DT 820 Series

ERWEKA’s DT 820 series offers advanced intelligence and features for stand-alone operation or for control of a complete dissolution offline sampling system. It allows storage of up to 60 product test methods.

The DT 820 series can be equipped with 6, 7 or 8 test stations and be used in high-head or low-head mode. It offers a traffic light to display the OQ/PQ status, a low evaporation cover as well as an external temperature sensor for checking the water bath temperature (System Suitability Test).

The water bath is designed for easy access and cleaning and made of non-leaking PET. Centering rings ensure correct position of vessels and the USP/EP compliant reinstallation of the vessels at any time.

Technical Data

| Appliance details | USP methods 1, 2, 5 and 6 with 6, 7 or 8 test stations (826, 827, 828) in 2 rows |
| Device control | LED display with function keys |
| Rotation speed | 20 - 220 rpm |
| Product memory | 60 test methods |
| Vessel | 1000 ml, 2000 ml (optional) |
| Heating | Power: 1500 Watt, Temperature: 30-50 °C |
| Water bath | 20 l |
| Interface | Parallel printer interface, USB printer interface possible via adapter |
| Weight | 47 kg |
| Dimensions | 930 mm (including heater), width: 640 mm, height: 940 mm |
| Voltage ± 10% | 115 - 250 VAC, 50 / 60Hz |

Highlights

- 100% USP/JP/EP compliant
- Automated sample collection
- Integrated intelligence (i-Version) for controlling the whole system without a computer
- Temperature measurement in each vessel (optional)
- Automated tablet drop magazine (optional)
- Password-protected access control
- High-head and low-head mode
- Easy cleaning of the complete system

Comprehensive solutions
ERWEKA Dissolution Offline Systems

Our semi-automated Dissolution Offline Systems distinguish themselves in particular through a high degree of flexibility. Specify your Offline System tailored to your individual needs.
The FRL 6/7/854 combines a space-saving footprint with all the familiar functions of the large FRL generation. The legs have been moved inwards, so that the shortened FRL can be placed crossways on the laboratory table. It can be tested with 6, 7 or 8 channels and, depending on the application, equipped with different racks for different test tubes or HPLC vials.

### Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td>6, 7, or 8</td>
</tr>
<tr>
<td>Max. capacity</td>
<td>26 sample intervals</td>
</tr>
<tr>
<td>Valve</td>
<td>Integrated 3 way valves</td>
</tr>
<tr>
<td>FRL racks</td>
<td>26 x 8 / 5 ml HPLC vials, 26 x 8 / 10 ml test tubes, 18 x 8 / 25 ml test tubes</td>
</tr>
<tr>
<td>Weight</td>
<td>25 kg</td>
</tr>
<tr>
<td>Dimensions: width/depth/height</td>
<td>700 mm / 515 mm / 585 mm</td>
</tr>
<tr>
<td>Voltage ±10 %</td>
<td>115 - 250 VAC, 50 / 60 Hz</td>
</tr>
</tbody>
</table>

### Highlights
- 6.5 cm shorter and 5 cm lower than predecessor series, which saves 25 cm when rotated by 90°
- Works with IPC and PVP pumps
- Easy cleaning and access to sample tubes
- Up to 26 rows for extended release formulation testing
- Special procedure for foaming media handling
- Automated flush routine between sampling intervals
- Different racks available (interchangeable with FRL x24 series racks)

### Overview: Pumps for Dissolution Systems

<table>
<thead>
<tr>
<th>Pumps</th>
<th>IPC 8 / 16</th>
<th>PVP 620 / 720 / 820</th>
<th>PVP 1220 / 1420</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td>8 or 16</td>
<td>6, 7 or 8</td>
<td>12 or 14</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 0.5 ml</td>
<td>+/- 0.5 ml</td>
<td>+/- 0.5 ml</td>
</tr>
<tr>
<td>Media replacement</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
</tr>
<tr>
<td>Double filtration (optional)</td>
<td>Only when first filtration with porous filters, media replacement possible when double filtration</td>
<td>Media replacement possible when double filtration</td>
<td>Media replacement possible when double filtration</td>
</tr>
<tr>
<td>Required type of sample collector</td>
<td>FRL 654 / 754 / 854</td>
<td>FRL 654 / 754 / 854</td>
<td>FRL 654 / 754 / 854</td>
</tr>
<tr>
<td>System compatibility</td>
<td>DT Offline / DT Online</td>
<td>DT Offline / DT Online</td>
<td>DT Offline / DT Online</td>
</tr>
<tr>
<td>Advantages</td>
<td>Basic pump (possible with DT Offline, needs regular replacement of tubing)</td>
<td>Filtration down to 0.23 μm for flat membrane filters, low maintenance even at high throughput. Best choice for dissolution systems</td>
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</tr>
</tbody>
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ERWEKAs compact sample collector

**FRL 6/7/854**

ERWEKA's compact sample collector FRL 6/7/854
Contact

Are you curious and want to find out more?
Head over to our website and download our product brochures, watch videos of our equipment in action or find the ERWEKA dealer of your country.

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