ERWEKA systems

Dissolution Offline System

Semi-automated dissolution system

ERWEKA

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

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

ERWEKAs 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.

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

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: width / depth / height	830 mm (including heater) / 640 mm / 940 mm
Voltage ± 10 %	115 - 250 VAC; 50 / 60 Hz

ERWEKAs compact sample collector

FRL 6/7/854

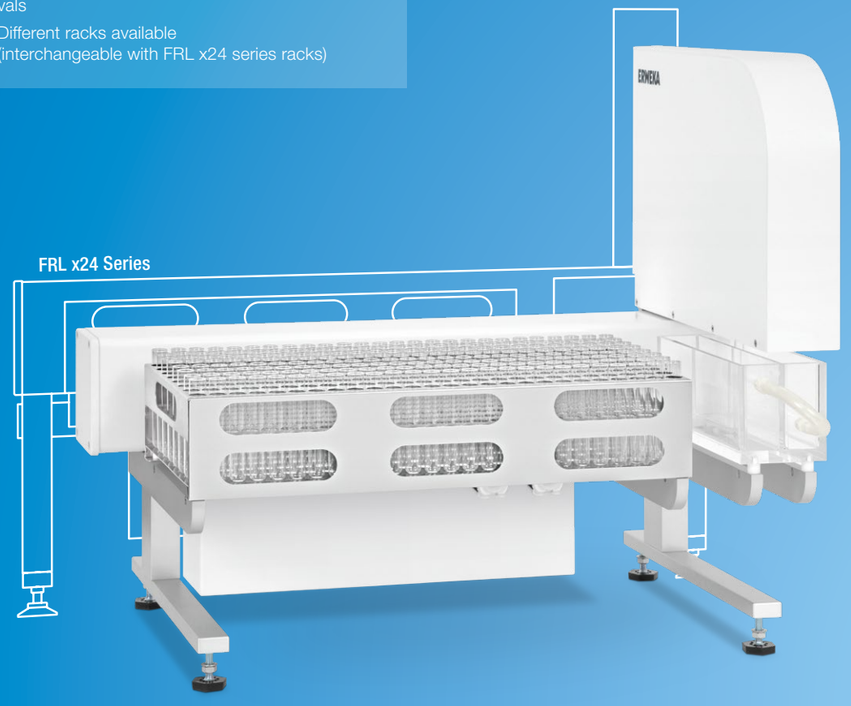
The FRL 6/7/854 combines a space-saving footprint with all the familiar functions of the large FRL generation. The legs have been moved inwards, so that the shortened FRL can be placed crossways on the laboratory table. It can be tested with 6, 7 or 8 channels and, depending on the application, equipped with different racks for different test tubes or HPLC vials.

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)

Technical Data

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
Weight	25 kg
Dimensions: width / depth / hight	700 mm / 515 mm / 585 mm
Voltage ± 10 %	115 - 250 VAC; 50 / 60 Hz



FRL x24 Series

Overview

Pumps for Dissolution Systems

	Peristaltic pumps	ERWEKA piston pumps	
Pumps	**IPC 8 / 16**	**PVP 620 / 720 / 820**	**PVP 1220 / 1420**
Channels	8 or 16	6, 7 or 8	12 or 14
Accuracy	+/– 0.5 ml	+/– 0.5 ml	+/– 0.5 ml
Media replacement	Standard	Standard	Standard
Double filtration (optional)	Only when first filtration with poroplast filters. No media replacement possible when double filtration.	Media replacement possible when double filtration	Media replacement possible when double filtration
Required type of sample collector	FRL 654 / 754 / 854	FRL 654 / 754 / 854	FRL 654 / 754 / 854
System compatibility	DT Offline / DT Online DT On-/Offline	DT Offline / DT Online DT On-/Offline	DT Offline / DT Online DT On-/Offline
Advantages	**Basic pump** possible with DT 14x/16x, needs regular replacement of tubing	Filtration down to 0.22 µm for flat membrane filters, low maintenance even at high throughput. **Best choice for dissolution systems**	Filtration down to 0.22 µm for flat membrane filters, low maintenance even at high throughput. **Best choice for dissolution systems**

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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