

Flow-Through Cell Dissolution Tester (USP Apparatus 4)

QbD

Quality by Design

- Valveless ceramic pump heads
- User friendly intuitive touch screen interface
- 99 programmable protocols
- Automatic flow rate adjustment for individual channels
- Program support for gravimetric flow validation and calibration
- Individual cell temperature monitor (optional)
- Media selector for easy pH change (optional) for open loop
- Isolated water circulating pump for precise temperature control of the water bath



Compliance



Touch Screen



Programmable
Protocols



Individual Cell
Temp. Monitor



EFD-07

2

Configuration Available

- Closed Loop : Enables media optimization
- Open Loop (Optional) : Ensures lower dead volumes



Automated
Offline Sampling



LAN



Print Report



Audio Output



Application

- Dissolution testing of tablets/capsules
- Implants
- Drug-eluting stents
- Ointments
- Creams
- Ophthalmic preparations
- Injectable suspensions
- Microspheres
- Liposomes
- Other NDDSs

ELECTROLAB FLOW THROUGH DISSOLUTION - 7
Test Report

Date: 16/07/2013
Time: 13:14:06

Firmware version: V 1.0
Serial no: 130716124006
User name: Security disabled

Product name: Citrus
Product no: 14
Test ID (TID): 130716124006

Set parameters:
Cell type: C
Temperature: 37.0 °C
Pulse rate: 120 PPM
Configuration: Closed loop

Se no	Start time	Sample	Elapsed time	Actual RPM	C-1	C-2	C-3	C-4	C-5	C-6	C-7	Flow rate
01	12:53:24	01	00:00:00	100	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
02	12:54:23	02	00:01:00	119	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
03	12:55:23	03	00:02:00	119	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
04	12:56:23	04	00:03:00	120	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
05	12:57:23	05	00:04:00	120	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
06	12:58:23	06	00:05:00	120	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
07	12:59:24	07	00:06:00	120	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
08	13:00:24	08	00:07:00	120	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
09	13:01:24	09	00:08:00	119	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0
10	13:02:24	10	00:09:00	119	37.8	38.8	39.0	36.7	42.8	36.8	37.0	08.0

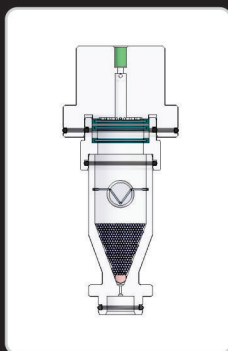
Cumulative bath time: 00:09:00 (HEADLESS)

Remark:

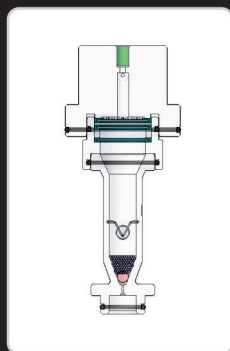
Signature:

Test Report

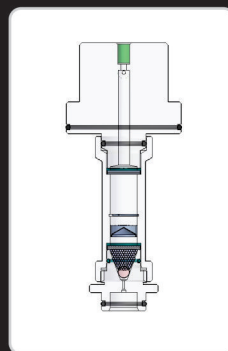
Different Types of Cells Available



22.6 mm Cell
(For Tablet / Capsule)



12 mm Cell
(For Tablet / Capsule)



12 mm Cell
(For Powder / Granule)



Patented Design
Dialysis Adapter
(For Any 22.6 mm Cell)

and many more...

Specifications

Model	EFD-07	
Product code	230 Volts	110 Volts
	M.S. : 1420100	M.S. : 1410100
Number of cells	7	
Pulse /min.	120 PPM $\pm$ 1	
Flow rate	4 ml/min. ~ 32 ml/min.	
Flow rate accuracy	5%	
Temperature	25° ~ 40°	
Temperature accuracy	0.1°	
Display	5.7" colour TFT with resistive touch panel	
No. of protocol	99	
No. of sample	24	
Sample interval	1 min ~ 999hr 59 Min	
Interface port	RS 232, Ethernet	
Cell type	22.6 mm USP, 12mm USP, 12 mm Powder granual cell,	
Water bath	Clear acrylic	
Bath capacity	6 ltr.	
Temperature controller	Heater : 1KW SS-316 with thermal protection	
	Sensor : RTD Circulator : High flow BLDC pump	
Electrical Power	110V AC, 50/60 Hz , 12 Amp	
	230V Ac, 50 / 60 HZ, 1.3 KW, 6 AMP	

Our Products

- Complete range of Dissolution Testers • Dissolution Media Preparator • Disintegration Testers • Tablet Hardness Testers
- Electromagnetic Sieve Shakers • Tap Density Tester • Bulk Density Tester • Powder Flow Tester • Leak Tester • Peristaltic Pumps



The information contained in this document is believed to be correct but ELECTROLAB accepts no liability for any errors and reserves the right to alter specifications without notice
December, 2013

Head Office : 401, Tirupati Udyog, I. B. Patel road, Off. Western Express highway, Goregaon (East), Mumbai - 400 063, India.

Tel : +91 - 22 - 4041 3131 • E-mail : sales@electrolabindia.com

Factory : EL 23/24, T. T. C., Electronic Zone, M. I. D. C, Mahape, Navi Mumbai - 400 710, India.

Tel : +91 - 22 - 4161 3131 • Website : www.electrolabindia.com

