

ELECTROLAB

Your Quality, Our Assurance

Disintegration Testers



Disintegration Testers



2 Station Semi Automatic Park Out (ED-2SAPO)



Park out



Report

Features

- Complies with USP, IP, BP and Ph. Eur. specifications
- Disintegration time registration of individual tablets
- Basket park-out from beaker on test completion
- Unique camless drive
- Print report of test results
- Individual motor and timer with external probe for each basket
- Moulded bath with flip-top cover
- Magnetically coupled basket for easy loading
- Stirrer for water bath circulation to maintain uniform temperature
- Water bath level sensor to maintain water level
- Green illumination from bottom for better visibility of disintegration process



The baskets are ergonomically designed for user friendly handling. Each basket has 6 color coded rings for easy visual identification during the registration of disintegration time. The baskets are magnetically coupled to the arm using permanent magnets which ensure a strong swivel free and easy attachment with correct orientation on every engagement. The baskets can be completely dismantled for thorough cleaning using a simple knurl screw. A device has been provided to keep the glass tube safely in place whilst assembling or dismantling.

The advanced microcontroller along with the PT 100 sensor and a stirrer in the bath ensures uniform temperature with a control accuracy of $\pm 0.2^{\circ}\text{C}$. The temperature can be set in the range of 15°C - 40°C . The thin mobile temperature probes are placed in the beaker to monitor and validate the beaker temperature and start the test when the set temperature has been attained. The probes are designed to match the beaker profile and prevent interference with the basket movement. A PC keyboard interface is provided for easy data entry of name, product name, batch nos., lot nos., media and set parameters. All such data for up to 10 products can be stored and retained to save time.

Timer mode

Individual test time can be programmed for each basket. The basket can be operated for a set time and it parks out at the end of the test.

Registration mode

In this mode, the disintegration process for each sample can be observed and on completion of this process the respective color coded key can be pressed to register the disintegration time of the corresponding sample. This registered time is displayed on the instrument panel and the results can be printed. On registering all the 6 tablets, the basket will park out of the beaker.

In both modes of operation for better observation of the disintegrating tablet the baskets are parked out of the media, when the test halts.



Disintegration Testers



Results

Test results for each basket can be recorded separately. The instrument ensures that parameters like temperature of individual beakers, the bath and strokes per minute are validated online. A report of these parameters can be printed at the end of the test as per cGMP guidelines. In registration mode, the validation and test results are printed whereas in timer mode only the validation results can be printed.

3 Station Park Out (ED-3PO)

The advanced microcontroller along with the PT 100 sensor and a stirrer in the bath ensures uniform temperature and a control accuracy of $\pm 0.2^{\circ}\text{C}$. The temperature can be set in the range of 15°C - 40°C . The thin mobile temperature probes are placed in the beaker to monitor and validate the beaker temperature and start the test when the set temperature has been attained. The probes are designed to match the beaker profile and prevent interference with the basket movement. All such data for up to 10 products can be stored and retained to save time.

Features

- Complies with USP, IP, BP and Ph. Eur. specifications
- Basket park-out from beaker
- Unique camless drive
- Print report of test results
- Individual motor and timer with external temperature probe for each basket
- Moulded bath with slide-up cover
- Ergonomically designed and magnetically coupled basket for easy loading
- LAN connectivity allows ED-3PO to be connected to the computers in the local network
- Green illumination from bottom for better visibility of disintegration process
- Users security upto 3 level

RS-232 serial port can be connected for printing the test report on a serial printer and if the serial printer is unavailable then the test report can be captured from the hyper terminal of the computer



Single Test



Park Out



Report



LAN



Security

Disintegration Testers



2 Station Units (ED-2L and ED-2AL)

2
Station



ED-2L



ED-2AL

Features

- Complies with USP, IP, BP and Ph. Eur specifications
- Parking of the baskets at the top position at the end of the test with an alarm
- Two individual sensors measure bath and beaker temperature
- Green illumination from bottom for better visibility of disintegration process
- Programmable timer with dual range in min-sec, hrs-min and in continuous mode
- Snap-click™ loading and a swivel free basket movement
- Maintenance free smooth drive
- Suitable for veterinary tablets and support for bolus basket

Disintegration Testers



6 Station (ED-6AL)



6
Station

4 Station with individual Timer
also available

Features

- 3 pair of baskets are controlled by independent timer and motor
- Snap-click™ loading and swivel free basket movement
- Green illumination from bottom for better visibility of disintegration process
- Programmable temperature controller
- Magnetically coupled pump for water circulation in the bath
- Auto parking of the baskets at the top position at the end of the test
- External probe for beaker temperature validation
- Dual range timer
- Maintenance free smooth drive
- Basket assembly for Isotretinoin capsule analysis (optional)

Disintegration Testers



3 Station Suppository Disintegration Tester (ESDT-3)

Features

- ESDT-3 tests the disintegration time of suppositories as per the latest BP
- 3 independent test stations
- All test cylinders turn 180° automatically every 10 minutes
- Test cylinders turning interval can be programmed from 1 min to 99 min
- Removable thermostat can be programmed to maintain water bath temperature between 30°C to 40°C ($\pm 0.5^\circ\text{C}$)
- Built in slow water circulation in 12 L clear Perspex water bath as per BP requirements



Standard accessories:
Baskets (3 nos.)

Specifications

No. of stations	3
Bath	6 mm thick clear acrylic water bath
Temperature range	30°C to 40°C
Temperature accuracy	$\pm 0.5^\circ\text{C}$
Temperature resolution	$\pm 0.1^\circ\text{C}$
Timer range	1 min to 99 hrs, 59 min and 59 sec
Display	6 digit LED — 1 digit for step no. 1 to 6 / 4 digit for displaying time
Heater	750 Watt
Motor drive	10 kg DC synchronous motor
Sweep	180°C after every set time
Power supply	230 VAC, 50 Hz, 580 VA
Dimensions (L x W x H)	400 mm x 410 mm x 420 mm



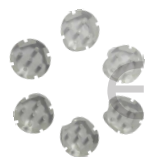
deconex

deconex is a proven disinfectant solution. It contains special cleaning agents which make cleaning of the bath easier and provide secondary protection to all components exposed to recirculation flow

Disintegration Testers



Standard Accessories for ED-2L, ED-2AL, ED-4AL, ED-6AL, ED-2SAPO and ED-3PO



Guided disc for six tube basket assembly (Set of 6)
Part no - 0201A00004



Six tube basket assembly with guided disc (Set of 2) for ED-2SAPO/ ED-3PO
Part no - 0201A00009



Six tube basket assembly with guided disc (Set of 2) for ED-2L/ ED-2AL/ ED-4AL/ ED-6AL
Part no - 0202A00009



Glass beaker (1000 ml)
Part no - 0201A00013



External temperature probe for ED-2L/ ED-2AL/ ED-4AL/ ED-6AL
Part no - 0202A00014



External temperature probe for ED-2SAPO/ ED-3PO
Part no - 0201A00016

Water bath with heater and sensor are also available

Optional Accessories for ED-2L, ED-2AL, ED-4AL, ED-6AL, ED-2SAPO and ED-3PO



Magnetic guided disc (Set of 12)
Part no - 0201A00007



Three tube bolus basket assembly with guided disc (Set of 2) for ED-2SAPO/ ED-3PO
Part no - 0201A00010



Single tube bolus basket assembly with guided disc (Set of 2) for ED-2SAPO/ ED-3PO
Part no - 0201A00011



Three tube bolus basket assembly with guided disc (Set of 2) for ED-2L/ ED-2AL/ ED-4AL/ ED-6AL
Part no - 0202A00010



Single tube bolus basket assembly with guided disc (Set of 2) for ED-2L/ ED-2AL/ ED-4AL/ ED-6AL
Part no - 0202A00011



Disc handling device
Part no - 0201A00018



Printer Epson LX-310 plus
Part no - 0201A00020

Disintegration Testers



Specifications

Models	ED-2L	ED-2AL	ED-2SAPO	ED-3PO	ED-4AL	ED-6AL
No. of stations	2			3	4	6
Water bath	6 mm thick transparent acrylic		Clear acrylic moulded water bath		6 mm thick transparent acrylic	
No. of strokes	30 ± 0.5 strokes/min					
Stroke height	55 mm ± 2 mm					
Controlled temperature range	20°C to 39.9°C		15°C to 40°C		20°C to 39.9°C	
Temperature resolution	± 0.1°C					
Timer	Range 1: 1 sec to 99 min and 59 sec Range 2: 1 min to 9 hrs 59 min		Range: 1 sec to 23 hrs 59 min 59 sec		Range 1: 1 sec to 99 min and 59 sec Range 2: 1 min to 9 hrs 59 min	
Display	4 digit LED		20 x 4 LCD	40 x 4 LCD	4 digit LED	
Printer interface	—		Centronics Parallel port	Serial	—	
PC connectivity	—			LAN	—	—
No. of motors	1	2		3	2	3
Illumination	Green Light		Green Light		Green Light	
Dimensions (L x W x H)	400 mm x 365 mm x 510 mm		450 mm x 360 mm x 575 mm	450 mm x 495 mm x 575 mm	600 mm x 360 mm x 575 mm	995 mm x 345 mm x 501 mm
Weight (Kg)	23		25	39	43	50

Our Products

- Complete range of Dissolution Testers • Dissolution Media Preparator • Friability Testers • Tablet Hardness Testers
- Electromagnetic Sieve Shakers • Tap Density Tester • Bulk Density Tester • Powder Flow Tester • Leak Testers • 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, 2015

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