

### Reciprocating Dissolution Tester

ERD-03 with Auto Sampler



### ERD-03 with Auto Sampler

#### Features:

- Complies to current USP Apparatus 3 specifications
- Ideal for extended release products or any dosage form requiring release profiling at multiple pH levels
- Select between multiple configurations of rows, vessels and vessel volume to meet testing needs for USP 3
- 20 programmable protocols with 16 sample intervals
- 2 level security with password
- Touch screen with graphical display for user friendly operation
- Dip rate ranges between 5 to 50 dpm with an accuracy of  $\pm 5\%$
- Programmable hold, drain time and programmable dip rate in each row
- Temperature range between 20°C to 40°C with an control accuracy of  $\pm 0.2^\circ\text{C}$
- Online validation of dpm and temperature
- Rugged clear acrylic Water bath
- PC & LAN Connectivity allows centralized printing.
- Retractable curtain to prevent media loss by evaporation
- Configured with 100 ml and 1000 ml capacity vessels along with vessel tray
- Performs key operations like filtering, storing and replacing withdrawn samples with fresh media
- The glass syringes eliminate adsorption and offer a high accuracy of dosing (better than  $\pm 1\%$ )
- No routine calibration or maintenance
- Supports 10 ml and 25 ml syringes
- Auto sampling works with standard 300ml vessel configuration only

- The high suction capability enables efficient use offline inline filters (0.45 microns), eliminating manual filtration process
- The 4-way motorized valve offers unprecedented system flexibility and the capability to deal with sticky media
- The ergonomically designed Syringe Pump has a very small footprint to save bench space
- The arm movement meets the automated sampling requirements of collection

#### Specifications:

Model	ERD-03 with Auto Sampler
Material of Construction	SS 316
Water Bath	Clear acrylic water bath
Bath capacity	44 litres
No. of rows	6
Vessel capacity	300ml, 100ml, 1000ml
Reciprocating height	100 mm
No. of dips rate	5 to 50 dpm
Temperature accuracy	$\pm 0.2^\circ\text{C}$
Temperature range	20°C to 40°C
Display	Touch screen
Heater	1000 Watts, 230 V AC, S. S 304
Mains fuse	1 Amp
Heater fuse	6 Amp
Dimension (L X W X H)	795 mm X 675 mm X 780 mm

#### Ordering information:

Products		
Product code	Description	Quantity
1120600	ERD-03 with Dc Sample Collector (Body made of M.S.) -230V	1
1110600	ERD-03 with Dc Sample Collector (Body made of M.S.) -110V	1

Standard Accessories		
Part number	Description	Quantity
1101A00040	300 ml vessels	42
1101A00022	Reciprocating cylinders	7
1101A00036	S.S 316 Screen 20 mesh	7
1101A00013	S.S 316 Screen 40 mesh	7

Optional Accessories		
Product code	Description	Quantity
1101A00034	ERD-03 Arm Assembly for 1000ml Vessel	1
1101A00025	ERD-03 THK Bearing for 12mm Rod (Set of 2)	1
1101A00026	ERD-03 Ball Bearing (Set of 2)	1
1101A00027	ERD-03 12mm Rod for Vertical Assembly ( Set of 2) ( not selling individual)	1
1101A00056	ERD-03 Conversion Kit From ERD-03	1
1101A00021	ERD-03 Reciprocating Cylinder for 100ml Vessel	1
1101A00022	ERD-03 Reciprocating Cylinder for 300ml Vessel	1
1101A00023	ERD-03 Reciprocating Cylinder for 1000ml Vessel	1
1101A00035	ERD Water Bath	1
1101A00040	ERD 300mL Vessel	1
1101A00043	ERD 50mL Vessel – Amber	1
1101A00041	ERD Vessel stand for 300ml Vessel CLEAR	1
1101A00024	ERD Evaporation Cap for 300ml Vessel with Needle	1
1101A00044	ERD Reciprocating Cylinder Upper Cap ( Set Of 7 )	1

\*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.

ELECTROLAB (India) PVT. LTD. (CIN NO : U33110MH2002PTC136735)

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

+91 - 22 - 4041 3131 sales@electrolabgroup.com

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

+91 - 22 - 4161 3122 www.electrolabgroup.com

Optional Accessories		
Product code	Description	Quantity
1101A00045	ERD Reciprocating Cylinder Lower Cap ( Set Of 7 )	1
1101A00046	ERD 300mL Conversion Kit	1
1101A00047	ERD Sampling Cannula 100mm for 300ml Vessel ( Set Of 7 )	1
1101A00048	ERD S S 316 Screen - 200 Mesh (Set of 10)	1
1101A00049	ERD Retnor (Set of 7)	1
1101A00050	ERD Front Guided Rod with Silver Structure (Set of 2)	1
1101A00051	ERD 50mL Conversion Kit	1
1101A00052	ERD 300ml Vessel Amber color	1
1101A00054	ERD Rubber sleeve (set of 7)	1
1101A00055	ERD Vertical curtain Assembly	1
1101A00057	ERD Polypropylene Screen - 30 Mesh(Set of 7)	1
1101A00058	ERD Adaptor Plate	1
1101A00073	ERD Laser Marked 300mL Vessel – Amber	1
1101A00006	ERD Vessel Stand for 1000ml Vessel	1
1101A00059	ERD Validation Kit	1
1101A00007	ERD Polypropylene Screen - 20 Mesh	1
1101A00008	ERD Polypropylene Screen - 40 Mesh	1
1101A00002	ERD 100ml Vessel Amber	1
1101A00076	ERD -07 Kit For 20ml Including parts(Reciprocating Disc Holder (Set of 12)	1
1101A 00002	ERD – Polypropylene Screen 40 Mesh (425 Micron)	1
1101A 00005	ERD – Polypropylene Screen 100 Mesh (150 Micron)	1
1101A00003	ERD 1000ml Vessel	1
1101A00004	ERD Vessel Stand for 100ml Vessel	1
1101A00009	ERD Polypropylene Screen - 60 Mesh	1
1101A00010	ERD Polypropylene Screen - 80 Mesh	1
1101A00017	ERD Evaporation Cap for 100ml Vessel	1
1101A00019	ERD Evaporation Cap for 1000ml Vessel	1
1101A00032	ERD Tube Holder Rubber for 300ml Vessel (Set of 7)	1
1101A00018	ERD Evaporation Cap for 300ml Vessel	1
1101A00001	ERD 100ml Vessel	1
1101A00005	ERD Polypropylene Screen 100 Mesh (150 Micron)	1
1101A00021	Reciprocating cylinder assembly for 100 ml vessel	1
1101A00022	Reciprocating cylinder assembly for 300 ml vessel	1
1101A00023	Reciprocating cylinder assembly for 1000 ml vessel	1
1101A00042	100ml Conversion Kit	1 Set
1101A00033	1000ml Conversion Kit	1 Set
1101A00036	S.S 316 Screen 20 mesh (set of 10)	1 Set
1101A00013	S.S 316 Screen 40 mesh (set of 10)	1 Set
1101A00037	S.S 316 Screen 60 mesh (set of 10)	1 Set
1101A00038	S.S 316 Screen 80 mesh (set of 10)	1 Set
1101A00039	S.S 316 Screen 100 mesh (set of 10)	1 Set
0104A00442	Deconex 12 Basic (10 Bottles of 1000 ml)	10
1104515	IQ/OQ Documents	1

Assurance Plan		
Product code	Description	Quantity
1102501	Platinum Assurance Plan for Reciprocating Dissolution Tester Model ERD-03 Basic	1
1102502	Gold Assurance Plan for Reciprocating Dissolution Tester Model ERD-03 Basic	1
1102503	Silver Assurance Plan for Reciprocating Dissolution Tester Model ERD-03 Basic	1

Inspection & Service Charges		
Product code	Description	Quantity
1106S06	Inspection & Service Charges for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

Service Charges		
Product code	Description	Quantity
1106S05	Service Charges for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

Reinstallation Charges		
Product code	Description	Quantity
1106S10	Reinstallation Charges without IQ/OQ Document for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1
1106S11	Reinstallation Charges with IQ/OQ Document for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

Single Validation Charges		
Product code	Description	Quantity
1106S04	Single Validation Charges for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

IQ/OQ Document		
Product code	Description	Quantity
1106S15	IQ/OQ Document for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

Single Validation Charges		
Product code	Description	Quantity
1106S04	Single Validation Charges for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

Up-gradation		
Product code	Description	Quantity
1101A00029	Up-gradation from ERD-03 Basic to Offline With DC Sample Collector	1

Breakdown Parts		
Product code	Description	Quantity
1101B00038	ERD-03 Heater Driver Card	1
1101B00001	ERD-03 Processor Card	1
1101A00020	ERD-03 Arm	1
1101B00004	ERD-03 Processor Patch	1
1101B00042	ERD-03 Basic Platinum kit	1
1101B00040	ERD-03 with ESC D Platinum kit	1
1101B00035	ERD Bath Temperature Sensor	1
1101B00044	ERD Diving Assembly	1
1101B00032	ERD Water Circulation Tygon Tube – 2mtr	1
1101B00007	ERD Horizontal Motor Driver Card	1
1101B00002	ERD HMI - LCD Display	1
1101B00013	ERD Disk Opto Card	1
1101B00024	ERD Heater – 230V	1
1101B00008	ERD SMPS 230V	1
1101B00010	ERD ARM Opto Card	1
1101B00011	ERD T-Cal PCB	1
1101B00014	ERD Ethernet PCB	1
1101B00016	ERD Proxy Sensor	1
1101B00017	ERD Power ON/OFF Switch	1
1101B00018	ERD Power Socket	1
1101B00019	ERD Fuse Holder	1
1101B00021	ERD External Temperature Probe	1
1101B00022	ERD Printer Cable	1
1101B00023	ERD Front Panel	1
1101B00028	ERD Thermal Cutoff	1
1101B00029	ERD ARM Motor – Up/Down	1
1101B00030	ERD ARM Motor – Forward / Reverse	1
1101B00031	ERD Plastic Quick Release Coupling With Shut of Valve	1
1101B00026	ERD Circulation Pump – 230V	1
1101B00027	ERD Circulation Pump – 110V	1
1101B00033	ERD Curtain Assembly	1
1101B00034	ERD Curtain Cover	1
1101B00025	ERD Heater – 110V	1
1101B00015	ERD Hall Effect Sensor	1
1101B00012	ERD Home Opto Card	1
1101B00009	ERD SMPS 110V	1
1101B00006	ERD ARM Motor Driver Card	1
1101B00005	ERD Compatch Card	1
1101B00003	ERD Vertical Opto Card for ARM	1
1101B00039	ERD Cable from Display to Compatch Card	1

Re-calibration Charges		
Product code	Description	Quantity
1106S09	Re-calibration Charges for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

Inspection Charges		
Product code	Description	Quantity
1106S08	Inspection Charges for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

In-House Repairing		
Product code	Description	Quantity
1106S07	In-House Repairing Charges for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

Dismantling Charges		
Product code	Description	Quantity
1106S12	Dismantling Charges for Reciprocating Dissolution Tester Model ERD-03 with Dc Sample Collector	1

\*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.

ELECTROLAB (India) PVT. LTD. (CIN NO : U33110MH2002PTC136735)

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

+91 - 22 - 4041 3131 sales@electrolabgroup.com

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

+91 - 22 - 4161 3122 www.electrolabgroup.com