

### 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  $\pm 0.5^\circ\text{C}$
- 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- Performs key operations like filtering, storing and replacing withdrawn samples with fresh media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	$\pm 0.5^\circ\text{C}$
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

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#### ERD-03 with Auto Sampler

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
1104S15	IQ/OQ Documents	1

Assurance Plan		
Product code	Description	Quantity
1102S01	Platinum Assurance Plan for Reciprocating Dissolution Tester Model ERD-03 Basic	1
1102S02	Gold Assurance Plan for Reciprocating Dissolution Tester Model ERD-03 Basic	1
1102S03	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

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