



DISSOLUTION TESTER - RECIPROCATING - ERD- 03

The Reciprocating Dissolution Tester ERD-03 is a precision USP Apparatus 7 dissolution testing system designed for evaluating modified-release, extended-release, and non-traditional dosage forms. It provides controlled reciprocating motion, flexible vessel configurations, and validated temperature and dip-rate control for reliable pharmaceutical dissolution testing.

Built for USP 7 compliance, the ERD-03 supports method development, routine quality control, and regulatory testing where standard paddle or basket methods are not suitable.

APPLICATIONS

The ERD-03 Reciprocating Dissolution Tester is used in pharmaceutical laboratories requiring precise USP 7 dissolution testing.

- Modified-release and extended-release dosage form testing
- Beads, microspheres, implants, and non-disintegrating products
- Method development and validation for USP Apparatus 7 procedures
- Comparative dissolution profiling during formulation optimization
- Quality control and regulatory dissolution testing
- Pharmaceutical R&D and academic research laboratories

FEATURES

- The flexibility to select from multiple configurations of rows, vessels, and vessel volumes to meet testing needs for USP 7
- Provides 20 programmable protocols with 24 sample intervals
- Offers two-level security with password protection

- Equipped with a touch screen featuring a graphical display for user-friendly operation
- Allows for dip rate adjustments ranging from 5 to 50 dpm with an accuracy of $\pm 1\%$
- Supports programmable hold, drain time, and dip rate settings in each row
- Has a temperature range between 30°C to 40°C with a control accuracy of $\pm 0.2^\circ\text{C}$
- Features online validation of dip rate and temperature
- Utilizes a rugged clear acrylic water bath
- Offers PC and LAN connectivity for centralized printing, data storage, and sharing
- Includes a retractable curtain to prevent media loss due to evaporation
- Can be configured with vessels of both 100 ml and 1000 ml capacity, along with a vessel tray for convenience.

TECHNICAL SPECIFICATIONS

Model	ERD-03
Material of Construction	S.S. 316
Water Bath	Clear acrylic moulded water bath
Bath capacity	44 Litres
Number of rows	50 × 9, 100 × 6, 300 × 6, 1000 × 1
Number of dips rate	5 to 50 dpm
Vessel Capacity	100ml, 300ml, 1000ml
Motor	Single shaft motor 10 kg cm
Temperature range	20°C to 40°C
Temperature accuracy	$\pm 0.2^\circ\text{C}$
Heater	1000 Watts, 230 V AC, S. S 304

Model	ERD-03
Dimensions (W × L × H)	675 mm × 795 mm × 780 mm
Electrical power	220/230 VAC, 50/60 Hz, 600 W/6 Amp
	110 VAC, 50/60 Hz, 600 W/6 Amp
Weight	150 Kg (Approx)



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