



DISSOLUTION TESTER - RECIPROCATING - ERD- 07

The Reciprocating Dissolution Tester ERD-07 is a precision USP Apparatus 7 dissolution testing system developed for pharmaceutical laboratories performing modified-release, extended-release, and non-traditional dosage form testing. It offers flexible configuration, accurate reciprocating motion, and validated control of critical test parameters to support regulatory and research workflows.

Designed for USP 7 compliance, the ERD-07 supports consistent method execution across multiple rows and vessel volumes while maintaining tight control of temperature and dip rate.

FEATURES

Key Features & Benefits

- USP Apparatus 7 reciprocating dissolution tester with configurable rows, vessels, and vessel volumes
- Adjustable dip rate from 5 to 50 dpm with $\pm 1\%$ accuracy for controlled reciprocating motion
- 20 programmable protocols with up to 24 sampling intervals
- Row-wise programmable hold time, drain time, and dip rate for method flexibility
- Touchscreen graphical interface for intuitive setup and operation
- Two-level password security for controlled user access
- Online validation of dip rate and temperature during testing
- Clear acrylic molded water bath designed for durability and visibility
- PC and LAN connectivity for centralized data storage, sharing, and report printing
- Retractable evaporation curtain to minimize media loss during long test runs
- Support for 100 mL and 1000 mL vessels, supplied with a vessel tray for convenience

Temperature Control & System Performance

- Controlled temperature range: 30°C to 40°C

- Temperature control accuracy: $\pm 0.2^{\circ}\text{C}$
- Readable temperature range: 15°C to 50°C

The system maintains stable thermal conditions across all rows, supporting repeatable dissolution results and regulatory documentation.

THEORY & METHOD

The ERD-07 Reciprocating Dissolution Tester is suitable for pharmaceutical laboratories requiring precise USP Apparatus 7 testing.

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

TECHNICAL SPECIFICATIONS

Model	ERD-03
Material of Construction	SS 316
Water Bath	Clear acrylic molded water bath
Bath capacity	liters
No. of rows	6

Vessel capacity (ml)	300
Reciprocating height (mm)	100
No. of dips rate (dpm)	5 to 50
Readable temperature range (°C)	15 to 50
Controlled temperature range (°C)	30 to 40
Display	Touch screen
Motor	Single shaft Motor 10 kg cm
Heater	1000 Watts, 230 V AC, S. S 304
Mains fuse	1 Amp
Heater fuse	6 Amp
Dimension (L X W X H)	795 X 675 X 780 mm
Power Supply	(110V is also available. Please specify when ordering)



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