

The new LABINDIA Dissolution Apparatus DS 14000 provide great versatility and configurability. It fulfils all requirements relating to ASTM & FDA Mechanical Calibration. The state-of-the-art Dissolution Testing with touch screen is elegant in design and user friendly with advanced features. The DS 14000 is precision engineered for USP<711> dissolution for ease of use. Allows storage of up to 200 product test run parameters.

Diagnostic functionality and validation report of the system is reliable enough for QC applications and flexible for R&D use.



STANDARD FEATURES

· Advanced, Micro-Controller based:

User-friendly, complies with current USP, IP & BP specifications.

- Moulded water bath with 12+2 (6+1 & 6+1) vessel configuration enables comparative studies.
- Mono shaft design with easy changeover between Apparatus I & II eliminates routine height validation as per USP.
- Paddles. Baskets and Vessels are laser marked with serial numbers for traceability.
- Automated Tablet dispenser drops 12 dosage form at single instance.

Low Evaporation Lids:

- » The conical shape low evaporation recovery lids reduces media loss during long run.
- » Integrated pre-centered lids; no manual removal or positioning of lids. This ensures automatic vessel centering and precise positioning of paddle/basket with shaft without any special tool as per pharmacopeia requirements.

· State-of-the-art design:

- $\label{lem:continuous} \begin{tabular}{ll} \textbf{``start} placement and locking of vessels, the Ease-align system allows the vessels to simply slide into the place (Bionet Locking). Once placed, vessels do not float even when empty. \\ \end{tabular}$
- » Facility to monitor Vessel temp., with an external RTD Temperature Sensor (Pt 100)





External vibration free flow Water Circulator. Inbuilt UV light to reduce contamination (optional)



SOFTWARE

· GLP Compliance:

- » QWERTY Keyboard for entries of Sample Name, Sample Number and Identification Number for authentication.
- » Built-in Real Time Clock (RTC) for date and time on display and on printout.
- » Factory entered CUSTOMER NAME with Instrument Serial Number on report printouts make the system foolproof.
- » Non-Volatile memory storage of 200 methods with parameters.
- » Validation Software to validate RPM, Temperature, sampling volume & replenish volume.

• Protects Editing, Avoids invalid entries:

- » User interactive software for ease of operation with protection against invalid entries.
- » Multilevel password protection for method editing.

· Ease in operation:

- » Auto Start facility to continue the dissolution analysis in case of short power interruption (especially useful for long duration analysis of sustained release tablets).
- » Reports can be obtained even after Resetting / Power off / Power failure conditions.
- » Error indication helps user to trace the problem.

· Alarms and Indications:

Audible indication for ready state of instrument.

· Wake-up Alarm:

This unique feature automatically turns the bath heater ON at a predetermined time.

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7" colour high resolution Display with touch screen interface



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TYPICAL SPECIFICATIONS

Control	Micro Controller
Method Storage	200 parameters
Temperature Range	20°C to 55°C
Temperature Accuracy	± 0.5°C
Temperature Resolution	0.1°C
Temperature Sensor	PT-100 (RTD)
Display	7" high resolution display
Print Interface	Deskjet, inkjet, laser jet, dot matrix printer / RS232C for PC connectivity and USB
Paddle/Basket shaft speed	20 to 350 RPM ±1%
Sampling time selectivity	Fixed / programmable (Varying Intervals)
Time Interval Selectivity	In steps of 1 Minute
Sampling volume range	0.5 - 25.5 mL
Vessel Capacity	1000 mL
Water Bath	29 litres capacity with built-in water level sensor / front loaded drain tap for easy draining of the water bath
Maximum number of Intervals	30
Dissolution Process Time	1 min to 720 hrs
Electrical Power	110/220V AC - 50 Hz/60 Hz
Dimension(W*D*H)	115*60*70.5 cm
Weight	120 kg Approx
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