



DISSOLUTION TESTER - 14 STATION INSPIRE-14

The Inspire-14 Dissolution Tester is a high-capacity 14-station dissolution testing system designed for pharmaceutical quality control, method development, and stability studies requiring higher throughput. It combines mechanical stability, precise parameter control, and validation-friendly features to support consistent dissolution testing in regulated laboratory environments.

Fully compliant with USP, IP, Ph. Eur., and JP specifications, the Inspire-14 is well suited for laboratories that need to process larger sample volumes without compromising accuracy or data integrity.

APPLICATIONS

The Inspire-14 Dissolution Tester is suitable for pharmaceutical laboratories that require reliable, high-throughput dissolution testing.

- Routine quality control testing of tablets and capsules
- Sustained and controlled-release formulation evaluation
- Method development and verification
- Stability and comparative dissolution studies
- Pharmaceutical QC, R&D, and academic laboratories

FEATURES

- **Key Features**

- 14-station dissolution tester for increased testing throughput
- TimeAction™ function supports media changeover and extended or continuous test runs for sustained and controlled-release products
- Automatic stirrer height positioning for USP Apparatus 1, 2, 5, and 6 methods
- Easy Snap-Fit shaft locking mechanism ensures secure engagement and wobble-free operation
- Vibration-free motorized lift movement for smooth and repeatable testing
- Clear acrylic water bath with metal top plate for durability and easy observation
- Isolated magnetic-coupled circulation pump for stable and precise bath temperature control
- Individual vessel centering system with adjustable instrument leveling
- Three-level password security with alphanumeric product and user data entry
- Audio-visual system status indicators and power-failure detection for operational reliability

Validation, Control & Data Handling

- 20 programmable test protocols
- Up to 16 programmable sampling intervals from 1 minute to 23 hours 59 minutes
- Programmable sample volume from 1 mL to 25 mL
- Online validation reports for tests, monographs, and error logs during operation
- Programmable wake-up feature for temperature readiness before testing
- Serial printer interface supporting 80-column dot-matrix printers
- The system is engineered to minimize routine validation effort while maintaining reproducible and traceable dissolution results.

TECHNICAL SPECIFICATIONS

Model	Inspire-08
Speed range	Variable speed from 20 to 300 RPM
Speed accuracy	±1RPM
Temperature range	20° C to 40° C
0 Temperature accuracy (at 37 C)	±0.1°C
Display	40 x 4 character backlighted LCD

No. of protocols	20 maximum
No. of samples	Maximum 16 of 1 min to 23 hrs, 59 min
Printer interface	Serial port
Printer supported	80 column Dot Matrix printer
Bath	Clear acrylic molded water bath
Bath size (L x W x H):	705 x 374 x 200 mm
Heater	1 kW/230 VAC, material S.S. 304 with sensor
Pump supply	230 VAC, 50 Hz (110V is also available. Please specify when ordering)
Pump type	Magnetic coupling
Pump flow rate	10 liters/minute maximum
Power supply	220/ 230 VAC, 50/60 Hz, 1.3 kW/6 Amp
Dimensions (L x W x H)	705 x 505 x 645 mm



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