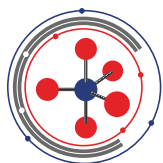


DISSOLUTION TESTER

8 Station Dissolution Tester **AP-TR8**



14 Station Dissolution Tester **AP-TR14**



AVANPRO is the registered trademark of **AVANPRO, Corp.** Avanpro follows a policy of continuous innovation. Product designs and specifications are subject to change without notice.



- Limited System Access
- Authority Checks
- Accurate and Complete Copies of Records
- Audit Trail
- Device Checks
- Metadata Storage
- Fingerprint Authentication
- Infinity Test

- Electronic Log Book
- Touch Screen
- Print Report
- LAN
- Multi-Level Security

14 Station

BENEFITS

- Efficient tool for biowaiver, ANDA and SUPAC- MR where n=12
- Consistent results with one dissolution water bath rather than variations possible with two separate dissolution water baths
- Incubation of replenishment media under same conditions to the dissolution media

60+% Savings

COMPARED TO TWO 8 STATION DISSOLUTION SYSTEMS, ONE 14 STATION DISSOLUTION SYSTEM SAVES:

- 67% bench space
- 64% electricity
- 63% water

MOTORIZED LIFT MECHANISM

- Hands-free quiet operation
- Automatic stirrer height positioning for USP 1, 2, 5, 6 and intrinsic test methods

AUTO DROP SYNC (Optional)

- Simultaneous dropping of dosage in non-rotating media
- User defined test start (immediate or delayed) immediately after media temperature is attained
- Extra wide aperture to accommodate dosage and sinkers up to 24 mm

SNAP-FIT SHAFT

- Unibody construction (crevice-free) of Snap-Fit shaft provides wobble free operation and accurate height adjustment
- Facilitates quick changeover between methods

MULTI-STAGE FILTRATION

- Inbuilt filters facilitates 2 or 3 stage filtration ranging from 10 μ - 15 μ , 0.45 μ to 0.22 μ
- Close proximity of filter manifold reduces variability caused by automation

ISOLATED TEMPERATURE CONTROLLER

- Isolated temperature controller for vibration-free and precise temperature control

18% Reduction in Variability

DILUTION WITH STIRRING

- Simultaneous purging and mixing of the aliquot and diluent for homogeneous sample preparation (Patented)
- Automated dilution of aliquot is possible by using replenishment media or mobile phase

QbD

QUALITY BY DESIGN

- International regulatory compliance (USP, Ph. Eur, JP, IP)
- Easy access to all physical parameters for cleaning and mechanical qualification
- Designed to minimize routine validation
- Corrosion free sturdy bath top plate
- All sample contact parts are made of inert materials
- Versatility allows adaptation to USP 1, 2, 5, 6 intrinsic and special height (45 mm) apparatus
- Transparent and amber colored vessels-capacity ranging from 100 ml to 4 L
- Sampling manifold dives the individual cannulas and vessel temperature probes to the appropriate sampling zone based on the method
- Wake up and sleep mode for the temperature controller saves time and conserves energy
- High performance ZDV (Zero-Dead-Volume) syringe pump for precise and accurate sampling
- 2 axis movement of sample collector arm enables piercing of precut septa for HPLC vials
- Enclosed sample collector prevents contamination and excess evaporation of samples

RINSING

RINSING

- Split-Rinse : Programmable rinse volume purged to waste in multiple cycles to avoid carryover
- Loop-Back : Circulate the rinse volume through the transfer tubings back to vessel to eliminate waste volume

4 types

SAMPLE COLLECTOR TRAY

Sample Collector Tray (ESC-12Dx)	
HPLC vials	PP vials
1.5 ml (24 x 12)	20 ml (16 x 12)
Combination tray (with dilution option)	
HPLC and PP vials	
HPLC vials 1.5 ml (8 x 12) + Glass tubes 20 ml (8 x 12)	



DISSOLUTION TESTER

8 Station Dissolution Tester **AP-IN8**

14 Station Dissolution Tester **AP-IN14**

TECHNICAL DATA

STANDARD ACCESSORIES:

- Laser marked and certified precision glass vessels, paddles and baskets
- Drawer organizer with cover for paddles and baskets

MODEL	AP-TR8	AP-TR14
No. of stations	n = 8	n = 14
Speed range	20 RPM to 300 RPM	
Speed accuracy	± 0.5 RPM	
Temperature range	20 °C to 40 °C (extended range 10 to 40 and 20 to 55 optional)	
Temperature accuracy (at 37 °C)	± 0.1 °C	
Display	7" TFT touch screen display	
Protocol storage	1000	
Test report storage	10000	
Sample interval	1 min to 999 hrs. 59 min	
No. of syringes	Standard: 6 (optional: 8)	Standard: 12 (optional: 14)
Interface port	Ethernet, Embedded thermal printer, RS 232, RS 485	
Stirrer drive	High performance BLDC (maintenance-free)	
Vessel capacity	150 ml, 250 ml, 1 L, 2 L	
Water bath	One piece molded clear or amber	
Bath capacity	22 L	28 L
Temperature controller	Heater: 1kW, SS 316 with thermal protection / Sensor: RTD	
Electrical power	110 VAC, 50/60 Hz / 220/230 VAC, 50/60 Hz	
Dimensions (W x H x D):	67 x 51 x 71cm / 26.5" x 20" x 30"	115 x 51 x 71cm / 45.3" x 20" x 30"
Offline Automation System:	101 x 51 x 71cm / 40" x 20" x 30"	156 x 51 x 71cm / 61.5" x 20" x 30"
Weight:	84kg / 185lb	126kg / 278lb
Offline Automation System	141kg / 311lb	212kg / 467lb

OUR PRODUCTS

- Complete range of Dissolution Testers
- Dissolution Media Preparator
- Friability Testers
- Tablet Hardness Testers
- Electromagnetic Sieve Shakers
- Tap Density Tester
- Bulk Density Tester
- Powder Flow Tester
- Leak Testers
- Peristaltic Pumps