12-Vessel Dissolution Tester, 25-250 rpm, RT-45°C ±0.2°C, Auto Dosing, 7-Inch Touch

Model **MSDIST-1208SWISS** | Brand **Master Science**





The 12-Vessel Dissolution Tester runs twelve vessels and twelve shafts for tablet and capsule dissolution testing. It supports pharmacopoeia Method 1 (basket), Method 2 (paddle), Method 3 (small vessel), Method 4 (paddle over disk) and Method 5 (rotating cylinder), with paddle and basket dimensions that meet pharmacopoeia requirements.

KEY HIGHLIGHTS

- Twelve Positions
- Automatic Dosing
- Precise Temperature
- Data Integrity

AT A GLANCE

≤ 0.5%
SPEED ACCURACY

Pt1000 sensing controls to ±0.2°C.
TEMPERATURE DRIFT IN VESSELS

25-250 rpm
STIRRING SPEED

±0.2°C / ±0.2°C
BATH / MEDIUM CONTROL ACCURACY

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Stirring runs at 25-250 rpm in either direction with 0.01 rpm resolution and ≤ 0.5% speed error, while the water bath holds room temperature to 45°C with ±0.2°C control measured by a Class 1/3B Pt1000 sensor. The 12-Vessel Dissolution Tester adds electric multi-channel automatic dosing, drop-flap delivery for small tablets and granules, white and red illumination, permission management, audit trail and a 7-inch touch screen with built-in printing.

Pre-warm dissolution media in our Laboratory Water Bath before loading the 12-Vessel Dissolution Tester.

Manual dissolution testing causes the issues below. The 12-Vessel Dissolution Tester handles each one.

Key Benefits

Twelve Positions
Run twelve vessels in parallel for higher throughput.

Automatic Dosing
Synchronous or sequential dosing reduces timing errors.

Precise Temperature
Pt1000 sensing holds bath and medium within ±0.2°C.

Data Integrity
Three-level permissions and audit trail support compliance.

Technical Specifications

UNDEFINED	
Brand	Master Science
Model Number	MSDIST-1208SWISS
SKU	MSDIST-1208SWISS
Configuration	12 vessels, 12 shafts
Methods	Basket, paddle, small vessel, paddle over disk, rotating cylinder (Methods 1-5)
Stirring Speed	25-250 rpm
Speed Resolution	0.01 rpm
Speed Accuracy	**≤ 0.5%**
Stirring Direction	Clockwise / counterclockwise
Paddle Wobble	≤ 0.5 mm
Basket Wobble	≤ 0.5 mm
Shaft-to-Vessel Centering	≤ 1 mm
Water Bath Temperature	Room temperature to 45.00°C
Temperature Resolution	0.01°C
Bath / Medium Control Accuracy	**±0.2°C / ±0.2°C**
Temperature Sensor	Class 1/3B Pt1000
Dosing	Electric multi-channel automatic; synchronous or sequential
Lifting	Electric telescopic single-column lift
Lighting	White and red light, 3-level dimming
Permission Management	3 levels, 7 users
Audit Trail	128 entries × 366 days
Display	7-inch LCD touch screen
Printing	Built-in online printing
Noise	< 60 dB
Operating Conditions	5-37°C, RH ≤ 80%
Power Supply	220 V, 50 Hz

PROBLEMS THE 12-VESSEL DISSOLUTION TESTER SOLVES	
Staggered manual dosing errors	Automatic synchronous or sequential dosing keeps timing exact.
Small tablets lost during drop	Drop-flap delivery prevents loss.
Temperature drift in vessels	Pt1000 sensing controls to ±0.2°C.

DISPLAY & DATA	
Weak data traceability	Permissions and audit trail log every action.

Applications

- **Tablet and capsule dissolution testing**
- **Quality control in pharmaceutical manufacturing**
- **Formulation development**
- **Testing of light-sensitive samples under red light**

Stirring System

- 25-250 rpm, 0.01 rpm resolution
- Clockwise and counterclockwise
- Automatic height-positioning clutch for different methods
- Real-time stirring speed monitoring

Temperature

- Room temperature to 45°C
- ±0.2°C bath and medium control
- Class 1/3B Pt1000 sensor
- Multiple temperature switch protections
- Water bath drain for easy cleaning

Dosing and Lighting

- Electric multi-channel automatic dosing
- Synchronous or sequential dosing; stirring can pause or continue
- Drop-flap delivery for small tablets and granules
- White and red light with 3-level dimming for light-sensitive samples

Software and Hardware

- 7-inch LCD touch screen
- Permission management and audit trail
- Built-in printing
- Electric head lifting; adjustable vessel holder and shaft system

Standard Accessories Included

- 12-vessel dissolution tester main unit
- Paddles and baskets

Optional Accessories

- Full-data high-precision dissolution vessels