8-Vessel Dissolution Tester, 25-250 rpm, RT-45°C ±0.2°C, Automatic Dosing, 7-inch Touchscreen

Model **MSDIST-808SWISS** | Brand **Master Science**





The Master Science 8-Vessel Dissolution Tester runs eight vessels and eight stirring shafts at the same time, so a full batch of tablets or capsules can be tested in one run. Speed is set from 25 to 250 rpm with 0.01 rpm resolution, and the water bath holds the medium between room temperature and 45°C with ±0.2°C control.

KEY HIGHLIGHTS

- Eight positions per run
- Tight temperature control
- Hands-off dosing
- Traceable records
- Easy maintenance

AT A GLANCE

≤0.5% SPEED ACCURACY ERROR	**Room temperature to 45.00°C** WATER BATH TEMPERATURE
25-250 rpm STIRRING SPEED	**0.2°C** WATER BATH CONTROL ACCURACY

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Overview

A 7-inch touchscreen handles method setup, while an electric head lift, an independent multi-channel dosing system and live speed monitoring take care of the routine steps. User permissions and an audit trail make the 8-Vessel Dissolution Tester a practical choice for quality control labs that need traceable records.

If the 8-Vessel Dissolution Tester is more capacity than you need, see the 6-vessel dissolution tester for labs with lower sample loads.

The 8-Vessel Dissolution Tester fits routine and development work where release behaviour of solid dosage forms must be measured.

Key Benefits

Eight positions per run
Test a full set of eight units in one cycle instead of splitting the batch.

Tight temperature control
±0.2°C control for both the bath and the dissolution medium keeps results comparable between runs.

Hands-off dosing
Multi-channel automatic dosing in synchronous or sequential mode reduces timing errors at the start of a test.

Traceable records
Three permission levels, seven users and a stored audit trail support documented testing.

Easy maintenance
A drain device on the water bath makes water changes and cleaning simpler.

Technical Specifications

GENERAL

General	Values below come from the manufacturer specification sheet for this model.
Brand	Master Science
Model Number	MSDIST-808SWISS
SKU	MSDIST-808SWISS
Configuration	8 vessels and 8 shafts
Test Methods	Method 1 basket and Method 2 paddle; small vessel, paddle-over-disk and rotating cylinder methods optional
Stirring Speed	25-250 rpm
Speed Resolution	0.01 rpm
Speed Accuracy Error	**≤0.5%**
Stirring Direction	Clockwise / counterclockwise
Paddle Wobble	≤0.5 mm
Basket Wobble	≤0.5 mm
Shaft-to-Vessel Centering Deviation	≤1 mm
Water Bath Temperature	Room temperature to 45.00°C
Temperature Resolution	0.01°C
Water Bath Control Accuracy	**0.2°C**
Dissolution Medium Control Accuracy	**0.2°C**
Dosing Mode	Synchronous and sequential dosing
Lifting System	Telescopic single-column lift
Permission Management	3 levels, 7 users
Audit Trail	128 entries × 366 days
Operating Noise	<60 dB
Safety	Self-test and automatic protection functions
Operating Environment	5-37°C, ≤80% RH
Power Supply	220 V, 50 Hz

COMMON LABORATORY PROBLEMS AND HOW THIS INSTRUMENT HELPS

Common Laboratory Problems and How This Instrument Helps	Common issues in dissolution labs and how the 8-Vessel Dissolution Tester addresses them:
Slow manual dosing	Automatic multi-channel dosing starts all vessels on time.
Temperature drift between vessels	±0.2°C control on bath and medium keeps conditions even.
Lost small tablets	Drop-flap delivery prevents small units from sticking or missing the vessel.
Weak audit records	Permission levels and the audit trail record who ran what and when.
Tedious bath cleaning	The built-in drain makes water replacement quick.

Applications

- Dissolution testing of tablets and capsules in pharmaceutical QC labs
- **Batch release testing of solid oral dosage forms**
- **Formulation development and comparison studies**
- Testing of granules and small tablets using drop-flap delivery
- **Light-sensitive sample testing under red illumination**
- **Teaching and research labs in pharmacy faculties**

Stirring and Positioning

- Automatic height-positioning clutch that can be switched between methods
- Omnidirectional adjustable vessel holder and shaft system
- Electric lifting of the machine head
- Real-time monitoring of stirring speed
- Paddle and basket dimensions made to pharmacopoeia requirements

Temperature and Bath

- Class 1/3B Pt1000 temperature sensor with fast response
- Multiple protections on the temperature switch
- Drain device on the water bath for easy water replacement

Dosing and Lighting

- Independent electric multi-channel dosing with synchronous and sequential modes
- Stirring can be paused or kept running during sequential dosing
- Drop-flap delivery that avoids losing small tablets and suits granules
- White and red illumination with 3-level PWM dimming for light-sensitive samples

Control and Data

- 7-inch LCD touchscreen
- Permission management with audit tracking
- Built-in online printing
- Low running noise below 60 dB

Optional Accessories

- High-precision dissolution vessels with optimized internal dimensions and spherical radius
- Small vessel method kit
- Paddle-over-disk method kit
- Rotating cylinder method kit