12-Channel Dissolution Sampling and Replenishment System

Coordinates twelve dissolution positions, automated sampling and twelve independent replenishment channels. Individual vessel temperatures, synchronized dosing and documented audit functions support controlled test workflows.

Key features

- Automatic sampling and filtration
- Programmable collection and flow
- Documented repeatability RSD ≤1%
- Manual tray exchange after 16 events

Technical Information

Speed range	5-250 rpm
Speed resolution	1 rpm
Speed error	≤±1%
Heating range	ambient-45 °C
Thermal resolution	0.1 °C
Thermal control error	≤±0.2 °C
Paddle / basket wobble	≤0.5 / ≤1.0 mm
Axis deviation	≤1.0 mm
Electrical supply	220 V / 50 Hz / 10 A
Sampling channels	12
Collection tray	12 × 16
Single-row sample volume	0.5-10 mL

Two-row / three-row volume	20 / 30 mL
Sampling interval	≥2 min
Inter-channel consistency	RSD ≤1%
Sampling repeatability	RSD ≤1%
Programmable flow	≤25 mL/min
Secondary filter diameter	25 mm
Secondary filter pores	0.8 / 0.45 μm
Serial interfaces	DB9; RS232 / RS485
Network interface	Wi-Fi
Primary filter	Column polyethylene
Collection vials	1.5 / 10 mL
Operating environment	5-37 °C; RH ≤80%
Operating noise	<60 dB
Independent refill channels	12

Standard Configuration

Linked dissolution instrument and sampler as a system. Confirm the vessel and shaft sets, tubing, filters, vial quantities and software licence in the delivery list. The illustrated computer or consumables are not assumed included.

Optional Accessories

Printers, certified high-precision vessels and qualification documents are separately quoted where available. Confirm method-specific filtration and vial compatibility.

Selection / Ordering Information

Confirm method, collection volume, sampling schedule, refill needs and software configuration. A tray holds 16 events per batch and requires manual exchange; this is not unattended unlimited collection. Network/LIMS integration must be confirmed for the supplied version. Audit functions do not establish validated regulatory compliance; bath heating does not establish active cooling.