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Sample Recovery System™ SRS 100i

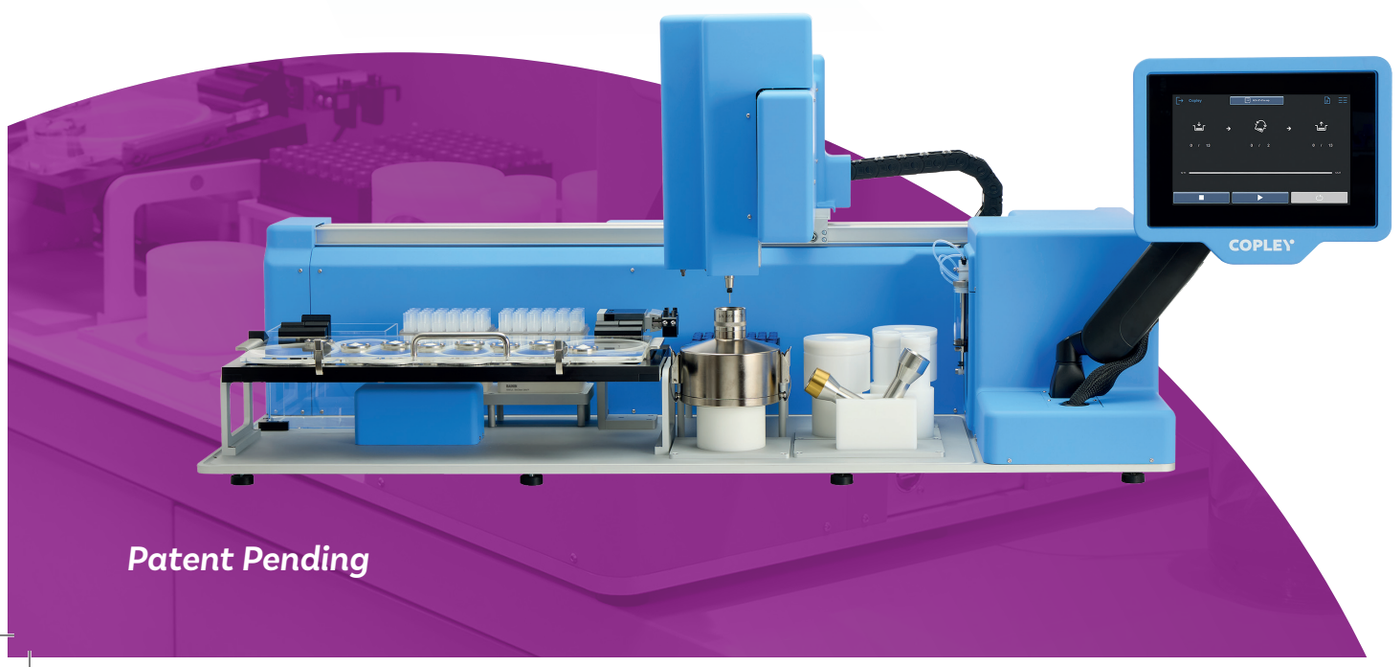
Reliable Results Start with Controlled Recovery

Manual drug recovery from DUSA collection tubes, impactors and other test components is inherently variable. Small differences in solvent volume, dissolution technique or sample handling can affect recovered mass and, ultimately, reported DDU and APSD results.

The Sample Recovery System SRS 100i is an automated solution for drug recovery, designed to control and standardise this critical stage of OINDP testing. By automating solvent dispensing, dissolution and sample collection, it delivers a consistent, repeatable recovery process.

Configurable for NGI, ACI, DUSA and other test components, the system produces controlled, HPLC-ready samples. It also reduces hands-on effort while enabling existing methods to be applied within a controlled workflow.

- Reproducible drug recovery across analysts and sites
- HPLC-ready samples for immediate analysis
- Configurable to suit most laboratory workflows
- Controlled solvent dispensing and dissolution
- Eliminates risk of cross-contamination
- Supports consistent and standardised workflows
- Reduced manual handling and hands-on recovery time
- Aligns with established recovery methods
- Designed for use in regulated environments (21 CFR Part 11 and GMP)

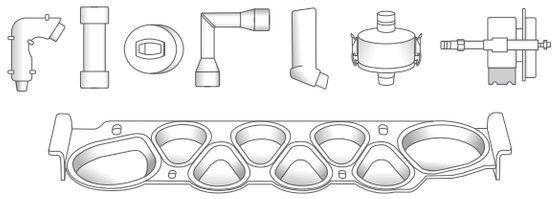


Patent Pending

Drug Recovery for DDU and APSD in Four Steps

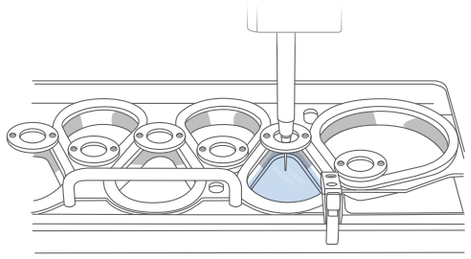
1. Load

Load the components into the dedicated holders:
- DUSA collection tubes
- Induction port, preseparator, external filter holder, collection cups or plate trays and alternative inlet components (e.g. Alberta Idealised Throat)



2. Dispense

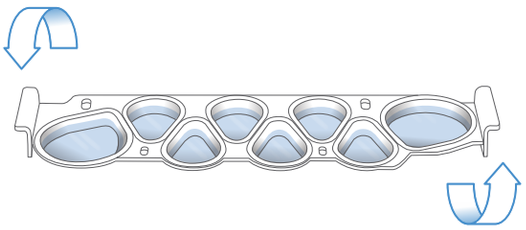
The solvent handling system delivers precise, user-defined volumes of solvent to each component and collection surface.



3. Dissolve

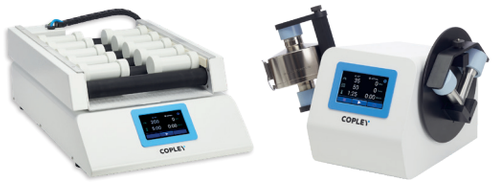
Dissolution is controlled according to component type to ensure complete and consistent drug recovery.

Collection cups/plates undergo controlled rocking to ensure complete and uniform dissolution of the deposited drug.



Top Tip

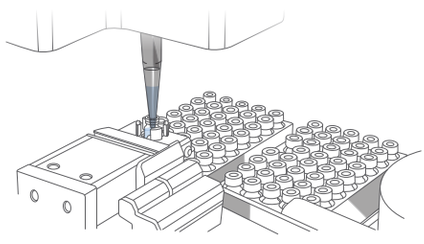
Pair the SRS 100i with the DUSA Tube Shaker DTS 100i for standardised rinsing of DUSA collection tubes, or with the Sample Preparation Unit SPU 200i for simplified drug recovery from induction ports and preseparators. Components are rinsed using the appropriate system before returning to the SRS 100i for sample collection.



For smaller components, the SRS dispenses precise solvent volumes into labelled beakers, supporting consistent recovery using existing methods.

4. Collect

Dissolved samples from each component and collection surface are aspirated directly into individual HPLC vials, ready for immediate analysis

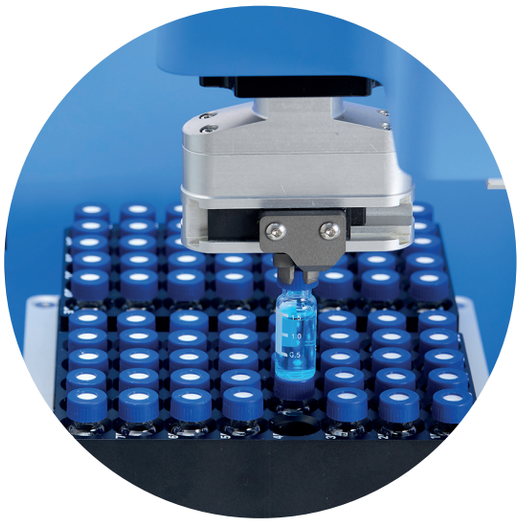


Engineered for Controlled Recovery

Dedicated solvent dispensing and sample aspiration heads remove the need for wash cycles, eliminating the risk of cross-contamination between samples.

Solvent dispensing head

Sample aspiration head



Precision Sample Handling

Recovered samples are aspirated and transferred directly into individual HPLC vials, ready for quantitative analysis with minimal manual intervention.

Qualification & Maintenance

- Comprehensive IQ/OQ documentation
- Qualification kit available
- Extended warranty available
- Remote support and field servicing available

Supports drug recovery from a wide range of OINDP testing components including inlets such as the Alberta Idealised Throat, as well as inhalers, mouthpiece adapters and external filter holders.

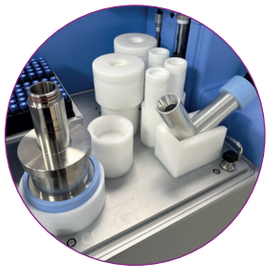
SRS 100i Technical Specifications

Dispensing accuracy	± 1%
Agitation speed	10 – 60 RPM (± 1 RPM)
Run Time	Up to 24 hours or Up to 60,000 revolutions
Connectivity:	USB A, USB B, RS-232 Run in digital input
Dimensions (w x d x h)	590 x 320 x 235 mm

Flexible Configurations for OINDP Testing Workflows

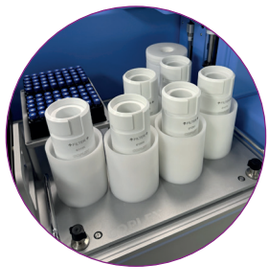
Configurable to support a range of test set-ups

NGI configuration



ACI configuration

MDI DUSA configuration



DPI DUSA configuration

Inhalytix®+ Compatible

The SRS 100i is compatible with Inhalytix+, enabling instrument metadata and operational parameters to be linked directly to APSD measurement records for improved traceability.

Sample Recovery System™ SRS 100i

Cat. No.	Description
7810	Sample Recovery System SRS 100i for NGI
7811	Sample Recovery System SRS 100i for ACI
7812	Sample Recovery System SRS 100i for MDI DUSAs
7813	Sample Recovery System SRS 100i for DPI DUSAs

Accessories

Cat. No.	Description
7831	Emergency Stop Button for SRS 100i
7830	Qualification Kit for SRS 100i
7832	Re-calibration of Qualification Kit for SRS 100i
7833	IQ/OQ Documentation for SRS 100i
9765	Label Printer
9719	Thermal Ink Transfer Labels (12 Rolls)
9725	Ribbon for Thermal Ink Transfer (Pack of 6)
1665	Ohaus Balance

Interface Plates

Cat. No.	Description
7820	NGI Interface Plate for SRS 100i with NGI Induction Port Fixture
7821	NGI Interface Plate for SRS 100i with AIT-A Fixture
7822	NGI Interface Plate for SRS 100i with AIT-C Fixture
7823	ACI Interface Plate for SRS 100i with USP Ind. Port Fixture
7824	ACI Interface Plate for SRS 100i with AIT-A Fixture
7825	ACI Interface Plate for SRS 100i with AIT-C Fixture
7826	MDI DUSA Interface Plate for SRS 100i
7827	DPI DUSA Interface Plate for SRS 100i

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