

Agilent 850-DS Dissolution Sampling Station

UNLEASH DISSOLUTION CAPABILITIES

The Measure of Confidence



Agilent Technologies

ADVANCING DISSOLUTION AUTOMATION

The 850-DS Dissolution Sampling Station provides laboratories with an integrated solution that simplifies and controls your dissolution workflow. Adding to Agilent's dissolution portfolio, the 850-DS is designed to incorporate seamlessly into your existing dissolution instrumentation and software systems.

The 850-DS Dissolution Sampling Station manages your entire dissolution workflow:

- Withdraws samples from the dissolution apparatus (1, 2, 3, 5, 6, or 7) in a precise, repeatable manner, reducing sampling variability and improving throughput efficiency
- Stores methods and controls all parameters of the dissolution process, from the dropping of dosage forms to final data collection or export
- Provides an unattended sampling (and cleaning) solution – into conventional tubes, vials, and even 96-well plates – that saves time and increases laboratory productivity for a wide range of dissolution methods



IMPROVING THE DISSOLUTION WORKFLOW

A variety of standard and optional features contribute to the superior performance of the 850-DS Dissolution Sampling Station.

The Sampler

- Integrated rotary piston syringe pump and collector conserves bench space
- Variable pump speeds offer shorter timepoint intervals and handling of different media types, including surfactants
- Improved needle design prevents coring or clogging
- Rinse port enables automated cleaning cycle that extends the life of internal components
- Various sample trays are available for UV-Vis or HPLC sample collection – including Agilent trays for direct transfer to the LC
- Media replacement is standard and can be used with or without the optional filter module
- Optional filter module uses GE Healthcare filter membranes in an exclusive Whatman 850-DS 8-channel filter plate design, simplifying filter replacement between timepoints

The Firmware

- Displays real-time status of instrument conditions, including the sample tray format installed
- Calculates and displays time for minimum sampling interval during method setup, preventing timing errors
- Differentiates between full and partial media change for accurate timing
- User levels prevent unauthorized instrument and method changes
- Accepts methods with up to 36 timepoints
- Data export functionality is via RS232, SD card, or optional built-in printer
- Synchronized start enables performance of dissolution tests in parallel

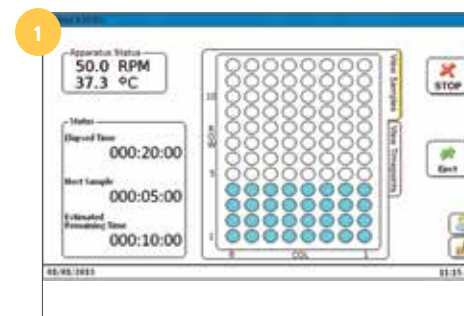


850-DS Filter Module and filter plates.



Maintain the high performance of the 850-DS by adding an automated cleaning cycle to the end of any dissolution method.

850-DS Primary Features and Options	Standard	Optional
1 Color touchscreen for simplified interaction	●	
Storage of up to 40 dissolution methods (20 per USP Apparatus type – 1/2/5/6 or 3/7)	●	
2 Integrated syringe pump with variable pumping speeds	●	
Media replacement to maintain vessel volume	●	
Rinse port for automated cleaning cycle	●	
Method transfer via SD card (from 850-DS to 850-DS)	●	
Synchronized start (for two 850-DS stations)	●	
3 Data export via SD card or RS232 (for LIMS integration)	●	
User levels for controlled instrument access	●	
Alarms for sampling and periodic maintenance	●	
Filter module for 0.45 µm filtration		●
Built-in printer for dissolution test documentation		●
4 Various trays for UV-Vis or HPLC sample collection		●



The 850-DS Main Screen displays real-time status of method progression and indicates the format of the sample tray installed.



Various options exist for exporting data from the 850-DS including printer, serial port (RS232), or SD card.



The integrated rotary piston syringe pump improves sampling speed with a variety of different media, including those containing surfactants.

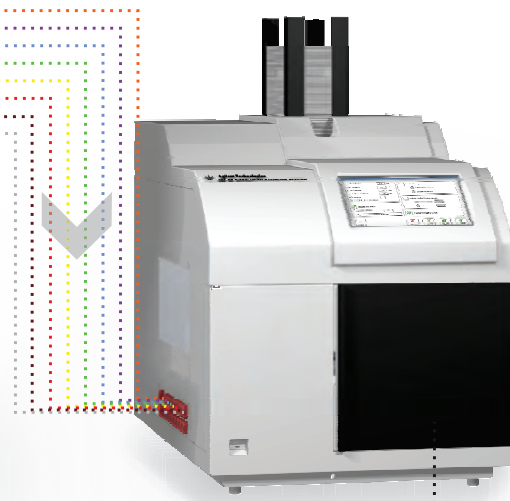


Test tube and HPLC vial tray options available for sample collection with the 850-DS.

A COMPLETE WORKFLOW SOLUTION

The 850-DS can be configured with:

- Any USP Apparatus 1, 2, 5 or 6 dissolution apparatus, including Agilent's 708-DS and 709-DS as well as legacy Varian or VanKel apparatus (functionality will vary based on the apparatus being controlled)
- Agilent's BIO-DIS Reciprocating Cylinder (USP Apparatus 3) or Apparatus 7 Reciprocating Holder
- Dissolution Workstation Software to control up four systems from one PC
- The Cary 60 in an online UV dissolution system, enabling sample archival or offline HPLC sample collection



Samples collected by the 850-DS into an Agilent HPLC sample tray can be placed directly into the HPLC autosampler – no need to manually transfer vials to a separate tray.

Dissolution Workstation Software

Dissolution Workstation Software integrates Agilent's dissolution apparatus and automated sampling components – including the 850-DS – allowing simultaneous control of up to four systems of any configuration from a desktop PC.

The software provides a framework for the user to build, edit, search, retrieve, and archive all dissolution methods and test reports from a single interface, and now offers vibration monitoring through the 280-DS Instrument Module.



Service and Qualification

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- Instrument maintenance and repair
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