Agilent 850-DS Dissolution Sampling Station

MAXIMIZE DISSOLUTION CAPABILITIES
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
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
- Ability to sample directly into 96-well plates, allowing for simplified tray transfer
- Optional filter module uses Whatman™ filter membranes in a space-saving design that simplifies 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

Maintain the high performance of the 850-DS by adding an automated cleaning cycle to the end of any dissolution method.
<table>
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<th><strong>850-DS Primary Features and Options</strong></th>
<th><strong>Standard</strong></th>
<th><strong>Optional</strong></th>
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<tr>
<td>1. Color touchscreen for simplified interaction</td>
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<td>2. Storage of up to 40 dissolution methods (20 per USP Apparatus type – 1/2/5/6 or 3/7)</td>
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<td>3. Integrated syringe pump with variable pumping speeds</td>
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<td>4. Media replacement to maintain vessel volume</td>
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<td>5. Rinse port for automated cleaning cycle</td>
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<td>6. Method transfer via SD card (from 850-DS to 850-DS)</td>
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<td>7. Synchronized start (for two 850-DS stations)</td>
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<td>8. Data export via SD card or RS232 (for LIMS integration)</td>
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<td>9. User levels for controlled instrument access</td>
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<td>10. Alarms for sampling and periodic maintenance</td>
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<td>11. Prefill capability allows vials or tubes to be filled prior to sampling</td>
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<td>12. Filter module for 0.2 μm or 0.45 μm filtration</td>
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<td>13. Built-in printer for dissolution test documentation</td>
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<td>14. Various trays for UV-Vis or HPLC sample collection</td>
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The 850-DS main screen displays real-time status of method progression and indicates the format of the sample tray installed.

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

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

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

When paired with an Agilent dissolution apparatus, the 850-DS Sampling Station controls all aspects of the dissolution system. Methods are written, maintained, and initiated from the 850-DS.

The 850-DS can be configured with:

- Any USP 1, 2, 5 or 6 dissolution apparatus—Agilent’s 708-DS, as well as most legacy Varian or VanKel apparatus (compatible with VK 7000/7010 FW version 2.02 or later; 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 to 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.
Make 21 CFR Part 11 Compliance Easy

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

Focus on what you do best and let Agilent’s experienced, well-trained engineers and chemists provide you with installation and familiarization, hardware and software training, and complete qualification services.

We can develop a service offering that meets your specific needs for:

- Instrument maintenance and repair
- Regulatory compliance
- Software and data systems
- Training and educational services
Agilent Dissolution Exchange
Learn. Solve. Discuss.

This free, interactive website offers an expansive set of resources on dissolution, including:

- Dissolution 1-on-1 self-paced dissolution training
- Recorded webinars and presentations
- The Dissolution Discussion Group (DDG)
- White papers, posters, newsletters, etc.
- Contact resources for questions, qualification, method development, and more

For more information, visit dissolution.chem.agilent.com

For more information

Learn more
www.agilent.com/lifesciences/850-DS

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