

Agilent 850-DS Dissolution Sampling Station

**MAXIMIZE DISSOLUTION CAPABILITIES**



**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
- 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

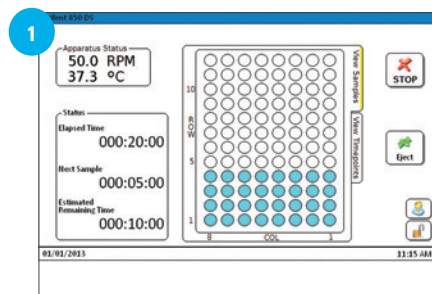


850-DS filter module and filter plates.



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

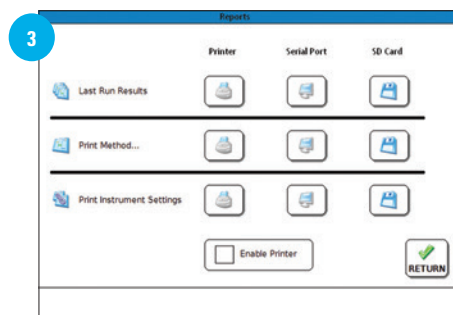
| 850-DS Primary Features and Options |                                                                                      | Standard | Optional |
|-------------------------------------|--------------------------------------------------------------------------------------|----------|----------|
| 1                                   | 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)                                         | ●        |          |
|                                     | Data export via SD card or RS232 (for LIMS integration)                              | ●        |          |
| 3                                   | User levels for controlled instrument access                                         | ●        |          |
|                                     | Alarms for sampling and periodic maintenance                                         | ●        |          |
|                                     | Prefill capability allows vials or tubes to be filled prior to sampling              | ●        |          |
|                                     | Filter module for 0.2 µm or 0.45 µm filtration                                       |          | ●        |
|                                     | Built-in printer for dissolution test documentation                                  |          | ●        |
|                                     | Various trays for UV-Vis or HPLC sample collection                                   |          | ●        |



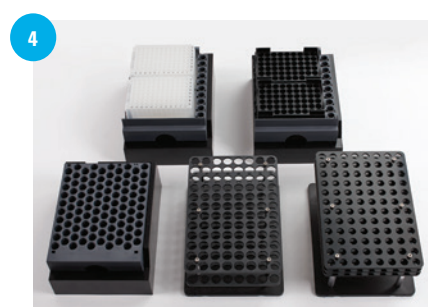
The 850-DS main screen displays real-time status of method progression and indicates the format of the sample tray installed.



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.



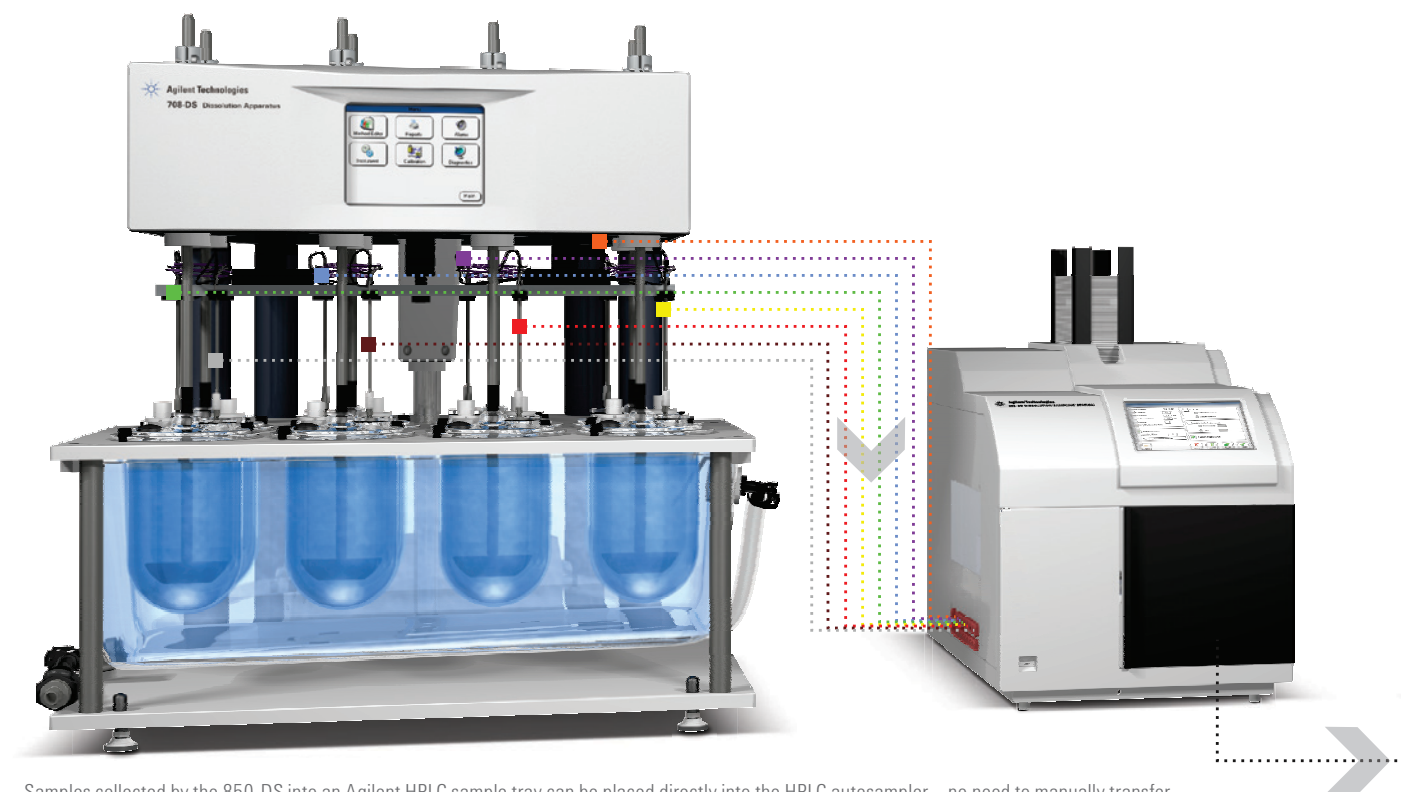
Test tube and HPLC vial tray options available for sample collection with the 850-DS.

## 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.



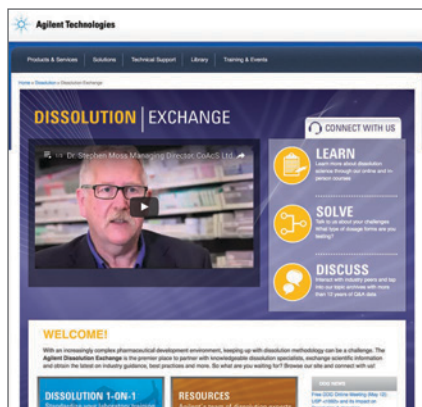
## Service and Qualification

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](http://dissolution.chem.agilent.com)

### For more information

Learn more

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