

DATA SHEET

8000 Dissolution Sampling Station

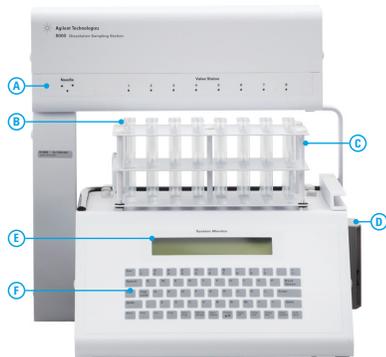
The Agilent 8000 provides automated sampling for our industry-leading dissolution apparatus. Designed to be configured with either the 810 Peristaltic Pump, or 806 Syringe Pump and 808 Filter Changer, the integrated system efficiently provides accurate and precise sampling at each timepoint.



Key Benefits

- ▶ **Efficient.** Automated features make sampling simple and quick. The system allows unattended dissolution testing and minimizes the inaccuracies in sampling position and volumes associated with manual sampling.
- ▶ **Flexible.** Choose the configuration that works best for you. Add the 810 Peristaltic Pump or the 806 Syringe Pump and 808 Filter Changer for cleaner samples from both Agilent and non-Agilent apparatus.
- ▶ **Accurate.** When paired with the Agilent 8000, the 810 Peristaltic and 806 Syringe Pumps ensure highly accurate and reproducible volumetric sampling at the correct timepoints without sample mix-ups common with manual sampling.
- ▶ **Time-saving integration.** Eliminate the need to independently program your dissolution apparatus. Use the 8000 keypad to program the method parameters for both the 8000 and your dissolution apparatus.
- ▶ **Complete documentation.** The built-in printer provides easy-to-read hard-copy printouts of comprehensive test data, even while the instrument is unattended.





- A. **Motorized Sampling Transport Carriage** – moves to the appropriate sampling row at each timepoint
- B. **Rinse Reservoir** – allows for purging and cleaning of needles between sample timepoints to prevent mixing and includes a compartment for replacement media
- C. **Sample Trays** – available for a wide variety of open tubes and HPLC autosampler vials
- D. **Report Center Printer** – document batch information with the built-in printing feature
- E. **LCD Panel** – view status information on the easy-to-read four-line display
- F. **Keypad** – QWERTY-style with hot buttons for dedicated applications (such as calibration)

The 8000 Dissolution Sampling Station eliminates the tedious task of manual sampling. Designed specifically for dissolution testing, it accommodates up to 10 timepoints at volumes ranging from 1-14 mL in a variety of sampling tubes and vials.

Automated Calibration

When using the 810 Peristaltic Pump, sample volume calibration may be performed with the touch of a button. Volume is accurately calibrated for each individual sampling line through the use of the patented autocalibration block, which controls the opening and closing of individual valves during the calibration and sampling process.

Configuration

The 8000 may be programmed from its keypad to operate any of Agilent's dissolution apparatus, as well as several non-Agilent dissolution apparatus. You can choose to configure the 8000 with either the 810 Peristaltic or 806 Syringe Pump. The syringe pump allows for greater accuracy if required for small-volume dissolution sampling or when more pressure is required for membrane filtration typically needed with HPLC analysis. The 808 Filter Changer, when coupled with the syringe pump, can handle automation capable filters down to 0.45 µm.

Sampling Options

The 8000 can collect samples in test tubes or HPLC vials in a variety of sizes with accommodating sampling trays. Up to 10 timepoints may be collected on a single sampling tray, and up to 20 timepoints may be collected through the use of a second replacement tray. The 8000's unique vented needle allows for sampling into capped HPLC vials, which eliminates over-pressurizing and controls evaporative loss. Agilent dissolution apparatus may be equipped with motorized manifolds for lowering cannulas into the dissolution media at the time a sample is taken to minimize hydrodynamic disturbance associated with resident sampling probes.

Automated Media Replacement

The 8000 can be equipped with an optional media replacement module, which is capable of replacing sample volumes removed during the run to maintain constant dissolution volume for testing. An unused vessel from the seventh or eighth positions can store the media so the media is replaced at the required temperature.

Documentation

The 8000's built-in printer allows you to print verification of system calibration, as well as comprehensive test data including full batch information from the apparatus. This provides a comprehensive report of all test parameters including: operating temperature, water bath temperature, elapsed time, test length, RPM, sample timepoints, and depending on the model and configuration of the apparatus, vessel temperature and dosage delivery time.

Regulatory Compliance

Agilent's UV Dissolution Software and/or Dissolution Workstation Software enable compliance with 21 CFR Part 11 guidelines for any automated configuration that uses the 8000 for autosampling.



Automated sampling with the Agilent 8000.



To learn more about Dissolution Testing, visit us at www.agilent.com/lifesciences/dissolution

Agilent 8000 Specifications

Altitude	0 - 2000 m (0 - 6562 ft.)
Temperature	5 to 40 °C
Humidity (non-condensing)	Not more than 80% RH
Voltage requirements	115 V / 60 Hz 230 V / 50 Hz
8000 current requirements	115 V—2.0 Amp
Same requirements for the 810 Peristaltic Pump, 806 Syringe Pump and 808 Filter Changer (as applicable)	230 V—2.0 Amp
8000 fuse requirements	115 V—2.0 Amp, 250 V, 5 mm x 20 mm FAST
Same requirements for the 810 Peristaltic Pump, 806 Syringe Pump and 808 Filter Changer (as applicable)	230 V—2.0 Amp, 250 V, 5 mm x 20 mm FAST
810 Peristaltic Pump duty cycle (as applicable)	Maximum of 3 min. on, minimum of 5 min. off
Sampling accuracy for 10 mL sample	810 Peristaltic Pump: ± 0.5 mL 806 Syringe Pump: ± 0.2 mL 806 Syringe Pump and 808 Filter Changer: ± 0.3 mL
Number of sample points / run	1 - 10; up to 20 with manual sample tray exchange
Maximum run time	999 hours
Sample volumes	810 Peristaltic and 806 Syringe Pump: 1 - 14 mL
Test tubes	16 x 100 mm (13 mL) standard 15 x 85 mm (10 mL)
Vials	12 x 32 mm (2 mL) 15 x 45 mm (4 mL)
Apparatus vessel number (as applicable)	6, 7, or 8
Valves	PEEK body with solenoid and double-barrel stainless steel needles
Volumetric calibration	Automatic or manual sampling, 10 mL volumes (nominal). Note: automatic calibration is not available with the Syringe Pump and Filter Changer.
Program storage	15 programs with up to 10 sample timepoints each
Priming time / volume (as applicable)	810 Peristaltic Pump: 0 - 99 seconds
Purging time / volume (as applicable)	810 Peristaltic Pump: 0 - 99 seconds
Keypad	Sealed switch-type
Display	4 lines with 40 characters per line, fluorescent
Dimensions	Height: 41.28 cm (16.25 in.) Width: 43.18 cm (17 in.) Depth: 51.8 cm (20.38 in.)
Equipment weight	16.3 kg (36 lb)

Agilent 8000 Ordering Guide

The 8000 can be used with every Agilent dissolution apparatus. In order to specify a system, please follow this decision tree as a guide:

- Which dissolution apparatus will be used with the 8000?
- What type of pumping system (810 Peristaltic or 806 Syringe Pump) will be used?
- Is the 808 Filter Changer for up to 0.45 µm filtration required?
- Is media replacement required?
- What is the voltage requirement?

Call your Agilent representative for assistance in selecting the correct configuration.

