

- **Positive Displacement Syringe Pumps**

The single or dual syringe pump configuration allows for accurate, high volume sample collection. Each syringe pump contains up to 8 individual syringes for sample collection from up to 8 vessels.

- **Independent Dual Bath Programming**

With the dual syringe pump/dual bath configuration, the sampler can run two different and independent dissolution methods, maximizing sampler productivity.

- **Septum Piercing**

With dual sleeved needles to alleviate back pressure. The sampler is capable of collecting into open or sealed test tubes and HPLC vials. Collecting into sealed vials improves results by minimizing evaporative loss.

- **Media Recycling and Media Replacement - Standard**

Media replacement and media recycling offer the advantage of returning unused media and replacing the collected sample volume for ease of dissolution calculations. These functions are easily enabled within the user interface.

- **pH Adjustment - Standard**

Additional media can be added, up to 300 mL during the dissolution test to adjust the pH of the media or to increase the final volume.

- **Dilution Capable - Standard**

User defined volumes of diluent can be set for each individual sample or for all samples collected. Dilutions are performed upon completion of the test.

- **Bath Control**

The Evolution 4300 can monitor and control up to two Distek dissolution baths, offering total system integration and ease of programming.

Automated Dissolution Sampler



Sampling Made Simple, Accurate, and Reliable

The Evolution 4300 is the next generation in dissolution sampler. It is equipped with state-of-the-art electronics and uses extremely reliable syringe pumps for sample collection. The proprietary syringe design significantly reduces cross contamination between sampling intervals. The sampler is designed to accommodate up to two syringe pumps for dual bath sampling capability. Each syringe pump operates independently allowing for two different dissolution methods to be run simultaneously.

The user interface is simple yet detailed in its functionality. The security features allow managers the flexibility to set access limits and require user log-in. Sampling actions are tracked and recorded for audit trail purposes. The sampler is equipped with a printer interface which provides sampling time and volume printouts during the test, as well as a final test report. The split tray design conveniently allows the user to remove one tray upon method completion for immediate analysis while permitting the second method to continue uninterrupted. The unit comes standard with media recycling, media replacement, dilution, pH change and IRPM sampling.

Evolution 4300 Specifications

System Collector

Tube/Vial Capacity	Up to 256 (HPLC vials or 8 mL test tubes), 8 x 16 per bath
Max Number of Sample Sets	Up to 32 per bath
Internal Method Storage	40 methods
Operator Privileges	User and Manager Accounts, Password Access
Dimensions	15"w x 16"h x 22"d (38 cm x 41 cm x 56 cm)
Weight	43 lbs. (19.5 kg)
Power Requirements	100-240 VAC, 50/60 HZ 2.5 A
Interface Ports	RS-232 (1), RS-485 (2), Parallel Printer (1)

Syringe Pump

Volume	0.1 mL to 20 mL, Programmable
Flow-Rate Range	Up to 25 mL/min
Volumetric Precision	±0.1 mL
Tubing Type	Teflon, 1/16" OD
Dimensions	8"w x 17"h x 12"d (20 cm x 43 cm x 30 cm)
Weight	29 lbs. (13 kg)
Power Requirements	100-120/200-240 VAC, 50/60 HZ 3.0 A MAX
Interface Ports	RS-232 (1), RS-485 (2)

System Configurations

Single Bath	Collects up to 32 time points from up to 8 vessels
Dual Bath	Collects up to 32 time points from up to 16 vessels

Accessories

Sampling Probes

Sampling Probe, 500 mL	2910-0500
Sampling Probe, 500 mL - Lower Portion Only	2910-0502
Sampling Probe, 500 mL - Solid Housing	2910-0506
Sampling Probe, 750 mL	2910-0750
Sampling Probe, 750 mL - Lower Portion Only	2910-0752
Sampling Probe, 750 mL - Solid Housing	2910-0756
Sampling Probe, 900 mL	2910-0900
Sampling Probe, 900 mL - Lower Portion Only	2910-0902
Sampling Probe, 900 mL - Solid Housing	2910-0906
Sampling Probe, 1000 mL	2910-1000
Sampling Probe, 1000 mL - Lower Portion Only	2910-1002
Sampling Probe, 1000 mL - Solid Housing	2910-1006
Sampling Probe, 1800 mL	2910-1800
Sampling Probe, 1800 mL - Lower Portion Only	2910-1802
Sampling Probe, 1800 mL - Solid Housing	2910-1806
Return Probe	2910-0001

Filter Disks

Filter Disks - 10 micron, 1000 per pkg.	5720-0203
Filter Disks - 45 micron, 1000 per pkg.	5720-0275

Fittings & Adapters

Luer Adapter - Female	5720-9059
Luer Adapter - Male	5720-9060
Elbow - Male to Female	5720-9074
Syringe Filter Adapter Assembly	2800-0110

Miscellaneous

HPLC Vial Rack (8 x 16 rows) for 2 mL vials	2800-0134
Probe Plug with O-Ring	3200-0034
Test Tubes - 8 mL plastic, 13mm x 100mm, 500 pcs.	5730-0001
Test Tubes - 8 mL glass, 13mm x 100mm, 72 pcs.	3010-0004



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