

- **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 sampling 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**

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**

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**

User defined volumes of diluent can be set for each individual sample or for all samples collected. Dilutions are automatically 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 sampling. The system is equipped with state-of-the-art electronics and utilizes 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 printout 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 running uninterrupted. The unit comes standard with media recycling, media replacement, dilution, pH change and Infinity RPM Sampling.

# Evolution 4300 Specifications

## System Collector

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

## Syringe Pump

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

## System Configurations

<b>Single Bath</b>	Collects up to 32 time points from up to 8 vessels
<b>Dual Bath</b>	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	2910-0003
Space Saver Shelving Unit	5650-0002
Test Tubes – 8 mL plastic, 13 mm x 100 mm, 500 pcs.	5730-0001
Test Tubes – 8 mL glass, 13 mm x 100 mm, 72 pcs.	3010-0004



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