

AQUATek 70

Waters-only Autosampler

- ✓ Water autosampler for purge and trap concentrator
- ✓ 70 sample positions
- ✓ Robust needle-to-vial design
- ✓ Automatic internal standard addition
- ✓ Auto-rinse between sample minimizing carryover
- ✓ Teflon® or PEEK® sample path options
- ✓ Standard loop sizes available: 5, 10, 20 and 25 mL
- ✓ TekLink software control
- ✓ When used with a Stratum PTC or Velocity XPT concentrator, additional diagnostics features, including leak check, are available
- ✓ The system is also compatible with earlier Teledyne Tekmar models, such as the 3000 and 3100 Series concentrators

Product Description

The AQUATek 70 utilizes a fixed volume sample loop that is filled during the vial pressurization step. Internal standard is added and the sample is transferred to the concentrator for analysis.

The system then flushes the entire sample pathway with hot dionized water for cleaning and preparation of the next sample.

Methods

- USEPA 5030 in conjunction with 502.1, 502.2, 524.2, 503.1, 601, 602, 603, 624, 8010, 8015, 8020, 8021, 8030, 8240 and 8260



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Specifications

Sample Vials:	Nominal 40 mL capacity, single hole cap with Teflon [®] faced silicone septum, per EPA specifications. 3-3/4" (9.5cm) high, 1-1/16" O.D., 24 mm ID cap for water sampling.	
Trays:	Accepts either two 35 position trays or one optional 70 position vial cooling tray	
Vial Cooling:	Optional vial cooling tray to cool vials to 4°C as per EPA specifications. (Requires an external recirculating cooling bath)	
Bath Connection:	Inlet and outlet hose connections require 1/4" I.D. tubing. Bath must have a minimum cooling capacity of 300 watts.	
Sample Types:	Drinking water and wastewater (water samples containing sediment levels of up to 15 mm when measured from the bottom of an upright 40 mL vial)	
Sample Loop:	Interchangeable loops; 5 or 25 mL volume, 1/8" O.D. coiled.	
Standard Injection System:	4-way valve, 2 µL volume delivery	
Internal Standard Accuracy:	2 µL +/- 10%	
Internal Standard Consumption:	11 µL at 0.02min Fill IS; 16 µL at 0.04min Fill IS	
Electronic Control:	Concentrator control of optically isolated I/O	
Instrument Control:	AQUATek 70 is controllable with a PC running TekLink software in a Windows environment. TekLink integrates control of the 3000 Series Purge & Trap with the AQUATek 70.	
Method Storage:	Up to 16 methods including pre-programmed methods.	
Vial Sampling Device:	XYZ robot with stationary vial rack design capable of an accuracy of +/- 1 mm in XYZ dimensions and repeatability of +/- 0.25 mm in XYZ dimensions.	
High Temperature OptiRinse:	AQUATek 70 uses dual internal reservoirs, which heat the water to 90°C to clean the entire sample pathway. (Includes sample loop, sample pathway, and glassware on the concentrator)	
Rinse Kits:	AQUATek 70 requires either a tap rinse kit or a reservoir kit. These do not add additional width so bench space used is not increased.	
Sample Path:	1/8" O.D. Teflon tubing	
Valving:	Four 12VDC, 3 port solenoid valves; One 115 VAC motor actuated 4-port valve	
Size:	11" (27.9 cm) X 10" (25.4 cm) high X 10.5" (26.7 cm) deep	
Weight:	Interface: 15 lbs (6.8 kg) shipping weight; Autosampler: 120 lbs (54.4 kg) shipping weight	
Warranty:	One year full warranty.	
Certifications:	CETL, CE, CSA	
System Requirements	Power Requirements:	100/115/230 VAC (+/- 10%) factory configured; 50/60 HZ, 100VA
	Environment Requirements:	Operating temperature: 10°C to 30°C; Storage temperature: -20°C to 60°C; Relative humidity: 10 to 90% with no condensation
	Gas Requirements:	Ultra high purity (99.999% pure) helium, 25-60 psi