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TELEDYNE INSTRUMENTS
Tekmar
A Teledyne Technologies Company

7000 Headspace Autosampler Specifications

Specifications

Capacity:	12 vials simultaneously heated, sampled via stationary needle design	
Column Interface:	Standard side-port connect for packed and capillary inlets, Optional: Septum Needle Adaptor, Low-volume Insert, Cryofocusing Module, Direct Column Connection.	
Interface Capability:	Capable of interfacing to virtually all commercially available gas chromatographs, equipped with packed, wide bore or capillary columns	
Vial Size:	9, 12, or 22 mL, removable insert for 9 and 12 ml vials	
Sample Loops:	Interchangeable 0.10, 0.25, 0.50, 1.0, 2.0, 3.0, and 5.0 ml stainless steel loops; 0.25, 0.50, 1.0, 2.0, mL E-form loops	
Heated Sample Platen:	Oil-free, resistance heated, jacketed, variable temperature (ambient +15°C to 200°C), settable in 1°C increments, uniformity +0.1°C	
Valving:	Motor-actuated 6-port valve, variable temperature (ambient +15°C to 250°C), 2 solenoid operated 2-port valves for sample pressurization and sample vent	
Sample Path:	Teflon-free continuously swept 1/16” heated nickel transfer line, variable temperature (ambient +15°C to 250°C), stainless steel sample loops; Optional: Silcosteel or polar transfer line and loops	
Sample Mixing:	OPTIMIX Equilibration System (patent pending), time settable 0.1 to 999.9 minutes, power setting in 9 increments	
Modes of Operation:	Manual:	Single sample
	Standard:	Multiple samples, minimum time for equilibrium successive samples are heated for long periods
	CHT:	Constant Heat Time, identical thermal exposure and preheating time for each sample (requires 7050)
	MHE:	Multiple Headspace Extraction, up to 9 extraction steps per sample with intermediate vent, with single or multiple puncture, with Standard or Concentrate Mode
	MOM:	Successive samples receive incremental changes in method parameter setpoints for time, temperature, or mixing power (requires 7050 Carrousel) with selectable number of times each increment is run
Methods:	4 Methods with scheduling feature for grouping up to 16 different sets of samples in the 7050 Carrousel	
Electronics Control:	Parameter entry via a front panel, self-contained microprocessor and software, movements controlled vial optical transmissive switching. Optional Windows-based Unit Control.	
Display:	64 x 240 pixel graphics LCD screen	
Interface:	Card cage mounted: optional two-way instrument interface, BCD, RS-232 serial communication; baud rate selectable 150 to 19200	
Size:	20” W x 22” H x 13” D	
Weight:	79 lbs.	
Utilities:	110V 50/60 Hz, 8A, 220V 50/60 Hz and 100V 50/60 Hz optional, carrier/pressurization gas	

Sales/Support: 800-874-2004 · **Main:** 513-229-7000
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