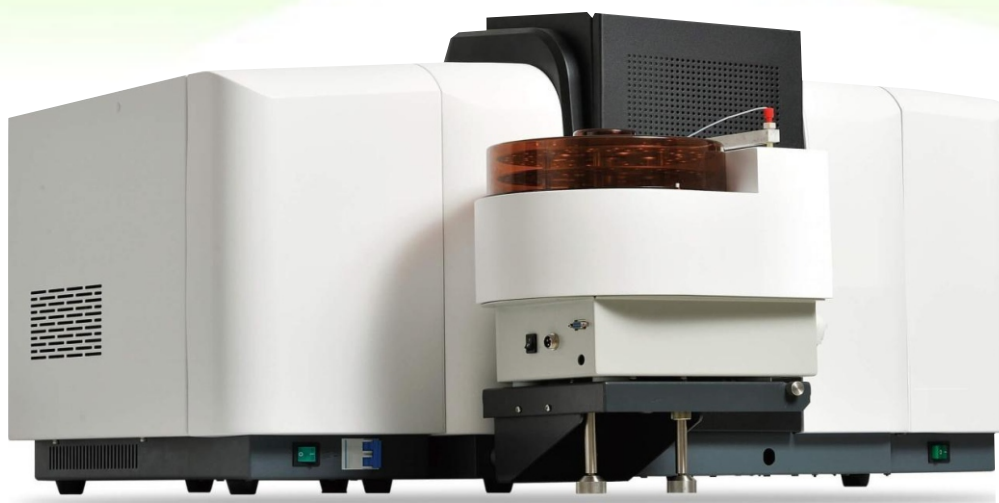


SYSTRONICS (INDIA) LIMITED

ATOMIC ABSORPTION SPECTROPHOTOETER

SYS 999D



MODEL: SYS 999D

DESCRIPTION

AAS-SYS 999D the multi-media graphite furnace visual system can intuitively monitor the sample's dynamic evolution during drying, ashing and residue burning process in the graphite tube. Advance technology for intelligent stray light measure and correction, Original Optical Noise Reduction & Automatic measurement and stray light, Internal lamp control technology. It enables convenient observation of the auto sampler's capillary injection needle reaching the best position and depth in the tube, as well as the position of the platform placed in the graphite tube. It ensures analysis precision and graphite tube's lifetime.

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SPECIFICATION:

Model		SYS 999D	
Type:	Flame System	Graphite Furnace System	
Light Source:	8 Lamps Automatic Turret, Automatic Alignment		
Optical System:	High Resolution 1800 lines/mm grating, True Double Beam Optics		
Wavelength Range:	180nm ~ 900nm		
Accuracy:	≤0.1nm		
Repeatability:	±0.02nm		
Spectral Bandwidth:	0.1, 0.2nm,0.4nm,0.7nm,1.4nm,2.0nm (Automatic Switching & Alignment)		
Baseline Stability:	≤±0.002A/30min (static), ≤±0.005A/30min (Dynamic)		
Absorbance Range:	0 ~ 4 A		
Detector:	Photomultiplier Tube (PMT)		
Background Correction:	High Speed Self-reversal (BGC-SR) method: High Speed D2 lamp method (BGD-D2).		
Burner Head:	Titanium alloy combustion head,50&100mm	-	
Atomization Chamber:	Polyphenylene Sulphide spray chamber	-	
Nebulizer:	Adjustable nebulizer (Platinum capillary)	-	
Detection Limits(Cu):	0.7 µg/mL	-	
Precision:	RSD≤0.5%	-	
Graphite Furnace Temp:	-	Current And Voltage Vector Control	
Temp. Control Method :	-	Graphite tube wall temperature	
Heating Temp. Range:	-	RT to 3000°C	
Heating Rate:	-	≥2000°C	
Temperature Accuracy:	-	≤0.5%	
Characteristics Volume:	-	0.5 × 10 ⁻¹² g (Cd)	
Detection Limit:	-	0.4 × 10 ⁻¹² g (Cd)	
Precision:	-	RSD≤3%	
The Cooling Water:	-	Cooling water circulation system	
Ignition Type :	Microcomputer control, Automatic ignition		
Gas Control:	Automatic gas control system)erusserp /wo (noitazimitpo		
Safety:	Gas Leak check, prevention of gas release when ema dies out, prevention of kcabhsa through pressure monitoring		
Power Supply:	AC220V (+5% ~ -10%), 60/50Hz, Lamp Current : Pulsed power supply		
Weight:	Approx. 150 Kg		
Interface:	Computer and USB interface communication		
Software:	PC communication software to control AAS system, Data processing, Data analysis, Print etc.		
Auto Sampler			
Auto Sampler System:	64-Position Auto Sampler Automatic configuration of standard curve, automatic dilution, high-precision injection		
Number of Sample cups:	60 Sample cups (1.5ml), 04 Reagents cups (10ml)		
Sample Volume:	1-50µ		
Injection Accuracy:	≤0.5% (5 - 50µL)		
Injection Mode:	Vertical injection		
Injection Pump:	Double injection pump, equipped with special cleaning pump		
Power Requirement:	DC24V, 60W		

SPECIFICATION:

Hydride Vapour Generator	
Hydride Vapour Generator:	The Hydride Vapour Generation device can detect the low temperature elements, such as Mercury(Hg), and Arsenic(As), Selenium(Se), Antimony(Sb), Bismuth(Bi), Lead(Pb), Tin(Sn), Tellurium(Te) and Germanium(Ge) etc..
Pneumatic Automated Technology:	Auto-sampling system, Automatic fluid measurement system, low stabilizer, Program-time controller and so on are pneumatic automatic systems which are run by the carrier gas source pressure.
Highly Automatic:	After pressing the start key, the whole process (sampling, reacting, calibrating and cleaning) will be finished automatically.
Sensitivity:	≤1ng/ml/1%A
Sensitivity of Arsenic(As):	≤0.15ng/ml/1%A
RSD:	≤3%
Less Solution:	Sample 2-2.5mL (including clean), Potassium borohydride 1-1.5mL, carrier liquid 5-6mL.
Measurement Time:	25 – 35 Seconds
Weight:	1.5 Kg
Size (L*W*H):	210*150*120mm
Power Supply:	AC220V, 50/60Hz
Oil-Free Air Compressor	
Air Flow:	118 L/min
Speed:	1400RPM
Max. Pressure:	8Bar
Restart Pressure:	5Bar
Tank Capacity:	24Litre
Noise Level:	52dB
Power:	600W
Weight:	25 Kg
Size (L*W*H):	400*400*520mm
Power Supply:	AC220V, 50/60Hz
Recirculating Water Chiller	
Cooling Mode:	Compressor Cooling
Temperature Controller:	PID Controller
Temperature Range:	5°C – 35°C
Accuracy:	±1°C
Cooling Capacity:	1300W @25°C
Pump Pressure:	≤1.3Bar
Pump Flow:	≤15Litre/min
Tank Volume:	8 Litre
Tank Material:	Stainless Steel SS304
Refrigerant:	R134a
Size (W*D*H):	360*450*653mm
Power Supply:	AC220V, 50/60Hz