[INSTRUMENT SPECIFICATIONS]

THE SCIENCE OF WHAT'S POSSIBLE.

2424 Evaporative Light Scattering Detector

The Waters[®] 2424 Evaporative Light Scattering (ELS) Detector with its compact and innovative design offers nearly universal detection of non-volatile and semi-volatile sample components. The 2424 ELS Detector is compatible with both isocratic and gradient separations with nebulizer options to cover a wide range of analytical and microbore flow rates. By adding the orthogonality of ELS to your detection strategy, you increase peak detection confidence across a wide application space.



OPERATING SPECIFICATIONS

Nebulizers			
High-flow rate (standard with detector)	300 to 3000 μL/min, (gas flow at 1.80 L/min at 25 psi)		
Optional low-flow rate	50 to 500 μL/min, (gas flow at 0.77 L/min at 25 psi)		
Temperature control			
Nebulizer heater power	0% to 100%		
Nebulizer cooler	On/off		
Drift tube	Ambient +5 to 100 °C; 0.1 °C increments		
Optional external column heater	Ambient +5 to 150 °C; 1 °C increments		
Gas supply	Nitrogen, to be supplied at least 65 psi		
Filter time constant	Hamming, 0.0 to 5.0 s		
Measurement range	0.1 to 2000.0 LSU		
Sampling rate	Up to 80 points/s		

OPTICAL COMPONENT

Optics	Heated optics bench (constant 50 °C)	
Light source	Tungsten halogen polychromatic front mounted, pre-aligned, user installable Warranty: 2000 hours or 1 year (whichever comes first)	
Detector	Photomultiplier tube	
Scattering angle	60 degrees	
Wetted materials	316 stainless steel, aluminum, viton, PTFE, FEP, silicone rubber, polyethylene, and polyurethane	

[INSTRUMENT SPECIFICATIONS]

ELECTRICAL

Power requirements	100 to 240 VAC
Line frequency	50 to 60 Hz
Power consumption	200 VA (nominal)
Inputs	Four event inputs
Outputs	Four outputs (2 analog and 2 event)

PHYSICAL/ENVIRONMENTAL

Dimensions	Width: 28.4 cm (11.2 inches) Height: 20.3 cm (8.0 inches) Depth: 52.1 cm (20.5 inches)
Weight	14.7 kg (32.5 pounds)
Operating humidity range	20% to 80%, non-condensing
Operating temperature range	4 to 30 °C (39 to 86 °F)
Audible noise	<58 dBA

ORDERING INFORMATION	PART NUMBER
2424 ELSD with high-flow nebulizer and ICS CD	176002424
Low-flow nebulizer	205000459
Column heating compartment	WAT038040





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