Waters 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) Optional low-flow rate	300 to 3000 μL/min, (gas flow at 1.80 L/min at 25 psi) 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 +5.0 to 100.0 °C; 0.1 °C increments
Optional external column heater	Ambient +5.0 to 150.0 °C; 1.0 °C increments
Gas supply	Nitrogen, to be supplied at least 65 psi
Gain setting	0 to 1000
Filter time constant	Hamming, 0.0 to 5.0 s
Sampling rate	Up to 80 points/s
Measurement range	0.1 to 2000.0 LSU

### **OPTICAL COMPONENT SPECIFICATIONS**

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

## [INSTRUMENT SPECIFICATIONS]

### **ELECTRICAL SPECIFICATIONS**

Power requirements	100 to 240 VAC
Line frequency	50 to 60 Hz
Power consumption	200 VA (nominal)
Inputs	4 event inputs
Outputs	4 outputs (2 analog and 2 event)

#### PHYSICAL/ENVIRONMENTAL SPECIFICATIONS

Dimensions	Width: 34.3 cm (13.5 inches)   Height: 20.8 cm (8.2 inches)   Depth: 61.0 cm (24.0 inches)	
Weight	18.6 kg (41.0 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 Evaporative Light Scattering Detector for Alliance® HPLC Systems (high-flow nebulizer included)	176242401
2424 Evaporative Light Scattering Detector for ACQUITY® Arc™ Systems (high-flow nebulizer included)	176017010
High-flow nebulizer	205001124
Low-flow nebulizer	205001125
Column Heating Compartment	WAT038040