[INSTRUMENT SPECIFICATIONS]



Arc Premier 2475 Fluorescence Detector

The Waters™ Arc™ Premier 2475 Fluorescence Detector offers unsurpassed sensitivity for quantifying low concentrations of target compounds, whether naturally fluorescent or derivatized with a fluorescent tag. The 2475 Detector sets the standard for fluorescence method development with 3D and "on-the-fly" spectral scanning for determining the optimal emission and excitation wavelengths, with the ability to monitor up to four independent wavelength pairs.

OPERATING SPECIFICATIONS¹

200 to 890 nm
210 to 900 nm
20 nm
±3 nm (via patented² Erbium filter)
±0.25 nm
S/N, Raman peak of water ≥1000
0.001 to 100,000.000 emission units (default)
0.1 to 5.0 s Hamming (default) 0.1 to 99.0 s (optional RC)
1.0 to 50.0 s Hamming (default) 1.0 to 99.0 s (optional RC)
Up to four 2D channels or one 3D channel
Up to 20 points/s in single (wavelength) mode 1 point/s in 3D mode

OPTICAL COMPONENT SPECIFICATIONS

Light source	Xenon lamp, 150 W
Warranty	2000 hours or 1 year (whichever comes first)
Flow cell design	Axially illuminated
Flow cell volume	13 μL
Pressure limit	145 psi (10 bar)
Wetted materials	Fused silica, Teflon, PEEK

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[INSTRUMENT SPECIFICATIONS]

ELECTRICAL SPECIFICATIONS

Power requirements	100 to 240 VAC
Line frequency	50 to 60 Hz
Power consumption	195 VA (nominal)
Inputs	Four event inputs
Outputs	Four outputs (2 analog, 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: 18.1 kg (40.0 pounds)	
Operating temperature range	4 to 40 °C (39.2 to 104 °F)	
Operating humidity range	20% to 80%, non-condensing	
Audible noise	<58 dBA	

ORDERING INFORMATION	PART NUMBER
Arc Premier 2475 Multi-λ Fluorescence Detector (low-dispersion analytical flow cell included)	176019011
Optional flow cells: Low-dispersion analytical 13 µL	205002279

References

- 1. All performance specifications are measured following a warm-up period of one hour with ambient $\Delta T \le \pm 2.0$ °C.
- 2. U.S. Patent Numbers: 6,423,249 and 6,783,705.



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