

L2130-i Technical Specifications

L2130-i Liquid Specifications (with A0211 and A0325)

Precision (1 σ)	Guaranteed: 0.025/0.1‰ for $\delta^{18}\text{O}/\delta\text{D}$
Drift (24 hour)	Guaranteed: 0.2/0.8‰ for $\delta^{18}\text{O}/\delta\text{D}$
Throughput	12 to 54 minutes per sample depending upon vaporizer model and mode
Memory	Guaranteed at better than 99/98% for $\delta^{18}\text{O}/\delta\text{D}$ after 4th injection
Total Dissolved Solids	<200 g/kg

L2130-i Vapor Specifications

Measurement Range	1,000 to 50,000 ppm
Guaranteed Precision (1 σ) 2,500 ppm	0.250/0.080‰ for $\delta^{18}\text{O}$ for 10/100 sec 1.600/0.500‰ for δD for 10/100 sec
Guaranteed Precision (1 σ) 12,500 ppm	0.120/0.040‰ for $\delta^{18}\text{O}$ for 10/100 sec 0.300/0.100‰ for δD for 10/100 sec
Measurement Rate	~ 1Hz

L2130-i Analyzer Specifications

Measurement Technique	Cavity Ring-Down Spectroscopy
Temperature	-10 to 45 °C (vapor sample); 10 to 35 °C (liquid sample & system operation); -10 to 50 °C (storage)
Sample Pressure	300 to 1000 Torr (40 to 133 kPa)
Sample Flow Rate	~40 sccm at 760 Torr, no filtration required
Installation	Benchtop or 19" rack mount
Analyzer Dimensions	17" w x 7.5" h x 17" d (43.2 cm x 19.1 cm x 43.2 cm)
Analyzer Weight	45 lbs (20.4 kg)
Power	90–240 VAC, 50/60 Hz, <150 W steady state (analyzer), 80 W (external pump)
Operating System	Windows 7 Professional with onboard Picarro Software

Standard

ChemCorrect™ post-processing software for flagging contamination and normalizing measurements.

Optional Peripherals

For Discrete Liquid Water

A0211 – High Precision Vaporizer
A0325 – Autosampler
A0214 – Micro-Combustion Module (MCM)

For Continuous Liquid Water

A0217 – Continuous Water Sampler (CWS)

For Water Vapor

A0101 – Standards Delivery Module
A0912 – Dual Mode Kit
(requires A0211 and A0325)

For Solids

A0213 – Induction Module (IM)

Accessories

C0354 – Salt Liner