

P6.1L Pump with Eluent Tray

Specifications - full list

For a quaternary analytical HPLC pump with degasser

Solvent delivery

Pump head	10 ml/min
Pulsation compensation	active pressure and pulsation compensation
Pump head materials	stainless steel
Maximum delivery pressure	70 Mpa (700 bar, 10150 psi) up to 5 ml/min, 40 MPa (400 bar, 5800 psi)
Flow rate range	0.001 - 10 ml/min; 0.1 - 8.0 ml/min (recommended); 0.1 - 4.0 ml/min (continuous operation)
Flow rate increment	0.001 ml/min
Flow rate accuracy	± 1%, measured at 5 - 80% of flow range using ethanol
Flow rate precision	< 0.1 % RSD based on retention time at constant room temperature
Pulsation	< 2 % amplitude (typically < 1.3 %) or < 0.3 MPa (3 bar), whatever is greater, at 1 mL/min ethanol, at all pressures > 1 MPa (10 bar, 147 psi).
Gradient formation	low pressure quaternary mixing
Gradient range	0-100%; 1-99% (recommended)
LPG: minimum increment	0.10%
LPG: gradient accuracy	± 0.3 % at 1 ml/min, 150 bar ethanol/caffeine tracer); ± 2 % (1 - 99 %, measured at 5 - 50 % of the flow range, water/caffeine tracer)
LPG: gradient precision	< 0.1% RSD at 1 ml/min, 0.5% RSD overall, based on retention time at constant room temperature
Mixing volume	100 µl (optional 50 or 200 µl available)
Delay volume	160 µl (depending on mixer)
Piston seal washing	standard
System protection	soft start, Pmin and Pmax are programmable
Wetted materials	stainless steel, graphite fiber reinforced PTFE, FKM, PEEK, sapphire, zirconium oxide (ZrO2)

Degasser module

Degasser channels	4 channels, Teflon® AF
Degasser maximum flow rate	10 ml/min
Degassing method	gas permeation through Teflon® AF amorphous fluoropolymer membrane
Degassing efficiency	< 0.5 ppm dissolved O2 at 1 ml/min
Degassing chamber volume	480 µl volume per channel
Solvent applicability	universal, with the exception of hydrochloric acid and halogenated hydrocarbons - in particular hexafluoro-isopropanol (HFIP)
Wetted materials	PEEK, Tefzel®, Teflon® AF
Vacuum chamber	polypropylene and stainless steel
Vacuum pump	low hysteresis behavior

Communication

Control	LAN; analog and event controlled
Analog inputs	0-10 V
Analog	flow rate

Technical parameters

Ambient conditions	temperature range: 10-40°C; 50-104°F; air humidity: below 90 % humidity (non condensing)
Leak sensor	yes

General

Power supply	voltage range: 100 - 240 V, 50 - 60 Hz
Dimensions	361 x 208.2 x 523 mm (W x H x D)
Weight	12.7 kg
Special features	automatic adaption of LPG cycle time



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