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ESA 582 Solvent Delivery Module

The HPLC Pump Optimized for Electrochemical Detection

- **Dual Serial Pistons** - provide low pulsation and greater seal life.
- **Low Volume Piston Displacement** - 10 μ L per plunger stroke, gives a noise profile matched to electrochemical detector noise filtration.
- **Flow Rate Range of 0.001 - 9.999 mL/minute** - usable for microbore and analytical separations.
- **Automatic Seal Wash** - prolongs piston seal life for greater reliability.
- **Enhancement Package** - for reduced noise with electrochemical detection.
- **Electronic Diagnostics** - for easier maintenance.
- **Improved Fluidics** - made more reliable and easier to service
- **High Gradient Accuracy and Precision** - for greater

Specifications- 582 Solvent Delivery Module

Pump:	Micro-volume double plunger (approximately 10 microliters/stroke)
Modes of Solvent Delivery:	Constant flow or constant pressure solvent delivery
Flow Rate Range:	0.001 - 5 mL/minute (10 - 340 bar); 5.001 - 9/999 mL/minute (10 - 200 bar)
Flow Rate Accuracy:	$\pm 2\%$ or $\pm 2 \mu$ L/minute whichever is higher (0.01 - mL/minute, 10 - 340 bar, with water and room temperature at 20°C) exclusive of low pressure gradient delivery
Flow Rate Precision:	Within $\pm 0.3\%$ (0.1 - 5 mL/minute, 10 - 340 bar with water and room temperature at 20°C)
Damper (External):	Internal capacity of approximately 0.8 mL
Materials in Contact:	316 stainless steel, ruby, sapphire, TeflonR, PEEK, zirconia, perfluoroelastomer, PCTFE
Filter:	10 micron mesh
Time Program:	Flow rate, pressure, event, LOOP (repeated programs), a total of 10 files and 320 steps
Pressure Indication	$\pm 2\%$ or 5 bar, whichever is greater

Accuracy:	
Size:	10" (W) x 5" (H) x 16.5" (D) (260 mm x 140 mm x 420 mm), however protruding components are not included
Weight:	24.25 lbs (11 kg)
Operating Temperature Range:	41 - 95°F (5 - 35°C)
Power Requirements:	90 - 130, 100 or 200 - 250 VAC, 100 VA
Certification:	CE (for 200 - 250 VAC configuration)



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