

(U)HPLC pumps

AZURA P 6.1L – isocratic

Isocratic HPLC pump

The AZURA pump P 6.1L uses technology to overcome the challenges of pumping LC solvents at high pressure and high flow rates.

The pump can deliver flow in the range of 0.001 – 50 mL/min at pressures up to 700 bar. The integrated AZURA inline filter is completing the isocratic AZURA HPLC pump. Exchangeable pump heads with 10 and 50 ml volume turn this pump into a working horse in the lab for analytical and semi-preparative tasks.

For biocompatible applications or ion chromatography this pump is also available with a complete metal free design.



Solvent delivery

Pump head	10 / 50 ml/min
Pulsation compensation	active pulsation compensation
Pump head materials	ceramic / stainless steel
Maximum delivery pressure	10 ml/min pump head: 70 MPa (700 bar, 10150 psi) up to 5 ml/min, 40 MPa (400 bar, 5800 psi) 50 ml/min pump: 30 MPa (300 bar, 4351 psi) up to 10 ml/min, 20 MPa (200 bar, 2900 psi)
Flow rate range	0.001 - 10 ml/min 0.02 - 10 ml/min (recommended) 0.01 - 50 ml/min 0.1 - 40 ml/min (recommended)
Flow rate increment	0.001 ml/min / 0.01 ml/min 10/50 ml pump head
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
Piston seal washing	standard
System protection	soft start, Pmin and Pmax are programmable
Wetted materials	graphite fiber reinforced PTFE, FKM, PEEK, sapphire, aluminium oxide (Al ₂ O ₃), ceramic

Communication

Control	LAN; analog and event controlled
Analog inputs	0 - 10 V
Analog control input	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	11.5 kg

Ordering details:

APH30EA	AZURA P 6.1L Isocratic analytical HPLC pump, 10 ml pump head
APH30ED	AZURA P 6.1L Isocratic analytical HPLC pump, 10 ml pump head, optimized for normal phase applications
APH60EB	AZURA P 6.1L Isocratic analytical HPLC pump, metal-free, 10 ml pump head
APH30FA	AZURA P 6.1L Isocratic HPLC pump, 50 ml pump head
APH60FB	AZURA P 6.1L Isocratic HPLC pump, metal-free, 50 ml pump head