

AZURA P 2.1L

Preparative HPLC pump

Article number: APE20KA



Preparative HPLC pump

AZURA preparative HPLC pump P 2.1L covers wide flow rate range and pressure capabilities. It has been designed for purification of mg and gram samples. The control unit allows intuitive control in stand-alone operation.

The integrated automatic recognition of the pump head with RFID technology allows fast adaptations of the pump for various applications.

Key features


- Preparative pump offers wide range of flow rates (0.1-1000 ml/min)
- Selection of different pump head materials
- Choice of two LC software platforms
- Improved electronic drive compensation
- Integrated compressibility compensation
- Integrated leak management
- Constant pressure operation mode

Details

Solvent delivery	
Pump type	Preparative HPLC pump
Delivery system	double piston pump with Al ₂ O ₃ pistons
Pump head	100 ml/min
Pump head materials	stainless steel
Maximum delivery pressure	40 MPa (400 bar, 5800 psi)
Flow rate range	0.01-100 ml/min
Flow rate increment	0.01 ml/min
Flow rate accuracy	± 2%, measured at 5 - 50% of flow range using ethanol/water 10:90
Flow rate precision	< 0.1 % RSD




Gradient support	isocratic, upgradeable to a binary HPG system with additional pump P 2.1L or to a ternary LPG system
HPG: gradient accuracy	± 2 % (5 - 95 %, measured at 5 - 50% of flow range, water/caffeine tracer)
HPG: gradient precision	1 % RSD, based on retention time at constant room temperature
LPG: gradient accuracy	± 3 % (5 - 95 %, measured at 5 - 50% of the flow range, water/caffeine tracer)
LPG: gradient precision	2 % RSD, based on retention time at constant room
System protection	soft start, P _{min} and P _{max} are programmable
Wetted materials	stainless steel, graphite fiber reinforced PTFE, FKM, PEEK, sapphire, aluminum oxide (Al ₂ O ₃)
Communication	
Control	LAN; analog and event controlled
Analog inputs	0-10 V
Analog control input	flow rate
Level/event outputs	8 event outputs (TTL, OC, relays)
Programming	19 programs + 9 links (to programs) + 1 wake up program
Special features	system pump head is detected automatically using radio frequency identification (RFID)
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 (B x H x T)
Weight	19 kg
Optional accessories	ternary low pressure gradient valve block, 10-220 ml/min binary low pressure gradient valve block, 10-800 ml/min pump head heating and cooling device

Accessories / Spare parts

	Title	Article number	Description
	Control Unit CU 2.1	AZD00	Direct control of AZURA devices via touchscreen
	AZURA LPG module for Pump P 2.1L	AZZ00AA	Binary LPG module for flow rates up to 800 ml/min, stainless steel
	AZURA LPG module for Pump P 2.1L	AZZ00AB	Ternary LPG module for flow rates up to 220 ml/min, stainless steel
	AZURA tool kit	A1033	tool kit for all AZURA devices
	Pump head cooling and heating device	A2034-1	for pump heads 100/250/500/1000 ml inlays

Related products

	Title	Article number	Description
	AZURA P 2.1L	APE20KB	Preparative HPLC pump with 100 ml/min pump head, titanium
	AZURA P 2.1L	APE20LA	Preparative HPLC pump with 250 ml/min pump head, stainless steel
	AZURA P 2.1L	APE20LC	Preparative HPLC pump with 250 ml/min pump head, titanium
	AZURA P 2.1L	APE20MA	Preparative HPLC pump with 500 ml/min pump head, stainless steel
	AZURA P 2.1L	APE20MC	Preparative HPLC pump with 500 ml/min pump head, titanium
	AZURA P 2.1L	APE20NA	Preparative HPLC pump with 1000 ml/min pump head, stainless steel
	AZURA P 2.1L	APE20NB	Preparative HPLC pump with 1000 ml/min pump head, titanium

	<p>AZURA Preparative HPLC system isocratic (1/8")</p>	<p>SYSA003</p>	<p>UVD 2.1L P 2.1L Assistant ASM 2.1L with feed pump, fractionation and injection valve</p>
	<p>AZURA Preparative HPLC system LPG</p>	<p>SYSA004</p>	<p>UVD 2.1L P 2.1L with LPG-block Assistant ASM 2.1L with feed pump, fractionation and injection valve</p>
	<p>AZURA Preparative HPLC system HPG</p>	<p>SYSA005</p>	<p>UVD 2.1L 2 x P 2.1L Assistant ASM 2.1L with feed pump, fractionation and injection valve</p>

Technical data are subject to change without notice.

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