iChrom Solutions 542 Cross Keys Road Suite 3-376 Sicklerville, NJ 08081-4367 609-799-7250 sales@iChrom.com



Part Number: APG20FB Base Pump: AZURA** P 4.1S

Compact pump with pressure sensor and 50 ml/min ceramic pump head For HPLC and dosing applications

With its small footprint, the compact dual-piston pump AZURA P 4.1S can be used for many different laboratory tasks. A pressure rating of up to 400 bar and chemical resistance to a wide range of eluents make it the perfect choice for LC and dosing applications. Pump heads with maximum flow rates of 10 and 50 ml/min are available.

Moreover – the exchangeable pump head allows adaptation of the pump for delivery of aggressive media and bioinert applications. The pump head can also be heated or cooled with optional accessories.



AZURA P 4.1S pump with pressure sensor

ACCESSORIES & SPARE PARTS

Pump head cooling and Pump head 10 ml Accessory kit AZURA Accessory kit AZURA heating device small devices Pump head 10 ml, P 2.1S and P 4.1S for 10 and 50 ml pump cable kit for all devices stainless steel included in shipkit heads with footprint "S" Article No.: FPG Article No.: AHB40 included in shipkit Article No.: A2035-1 Article No.: FZA01

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TECHNICAL DATA

General Information

Max. flow rate:	50 ml/min
Flow rate range:	0.01-50 ml/min
Flow rate increment:	0.01
Maximum delivery pressure [psi]:	2180 psi
Maximum delivery pressure [bar]:	150 bar
Maximum delivery pressure [MPa]:	15 MPa

Pressure range: 150 pressure [bar] 100 50 0 0 10 20 50 30 40 flow rate [ml/min] - 10 ml pump head ceramic recommended recommended (continuous)

Pump head materials:	Ceramic
Maximum viscosity:	100 ср
Liquid temperature range:	4-60 °C (39.2-140 °F)
Gradient:	Isocratic
Leak management:	Νο
Wetted materials:	GFP (graphite fiber-reinforced PTFE), Titanium, ruby, sapphire, Aluminum oxide (Al ₂ 0 ₃), ceramic, FKM, PEEK, Zirconium oxide
Note:	Pressure sensor membrane made of stainless steel; limited wetting in fluidic path

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Detailed information

Best working conditions:	1.0-40.0 ml/min
Continuous working conditions:	3-25 ml/min
Flow rate accuracy:	±1%
Flow rate accuracy conditions:	5-50% of flow range using ethanol/water 10:90
Flow rate precision:	< 0.5% RSD
Flow rate precision conditions:	Measured at 1/5 ml/min using ethanol/water 10:90
Pulsation compensation:	No
Pump type:	Ultra-compact high pressure pump
Active Piston seal wash:	No
Piston seal washing:	Yes
System protection:	\mathbf{P}_{\min} and \mathbf{P}_{\max} adjustable; \mathbf{I}_{\min} and \mathbf{I}_{\max} adjustable
Pump head inlet (standard):	1/4"-28 UNF (flat bottom)
Pump head outlet (standard):	10-32 UNF (coned)
Communication	
Interfaces:	Display
Control:	RS-232; analog; button on device
Analog inputs:	0-10V
General	
Power supply:	100-240 V; 50-60 Hz
Dimensions:	121 x 129 x 220 mm
Weight:	2.3 kg
Leak sensor:	Νο
Ambient conditions:	Temperature range: 10-40 °C; 50-104 °F air humidity: <90 % (non condensing)