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Part Number: APG20EC Base Pump: AZURA** P 4.1S

Compact pump with pressure sensor and 10 ml/min Hastelloy-C 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

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TECHNICAL DATA

General Information

Max. flow rate:	10 ml/min
Flow rate range:	0.001-10 ml/min
Flow rate increment:	0.001
Maximum delivery pressure [psi]:	5800 psi
Maximum delivery pressure [bar]:	400 bar
Maximum delivery pressure [MPa]:	40MPa

Pressure range: 400 300 pressure [bar] 200 100 0 0 2 4 6 8 10 flow rate [ml/min] - 10 ml pump head HC recommended recommended (continuous) **Pump head materials:** Hastelloy® C-276 Maximum viscosity: 100 cp Liquid temperature range: 4-60 °C (39.2-140 °F)

Gradient:IsocraticLeak management:NoWetted materials:GFP (graphite fiber-reinforced PTFE), FFKM, Titanium,
ruby, sapphire, KEL-F® (PCTFE), Hastelloy® C,
Zirconium oxide, aluminum oxide (Al203), PEEKNote:Pressure sensor membrane made of stainless steel;
limited wetting in fluidic path

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Detailed information

Best working conditions:	0.1-8.0 ml/min
Continuous working conditions:	0.1-4.0 ml/min
Flow rate accuracy:	±1%
Flow rate accuracy conditions:	Measured at 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:	Pressure min and 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: below 90 % humidity (non condensing)

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