



Article No.: 724203110

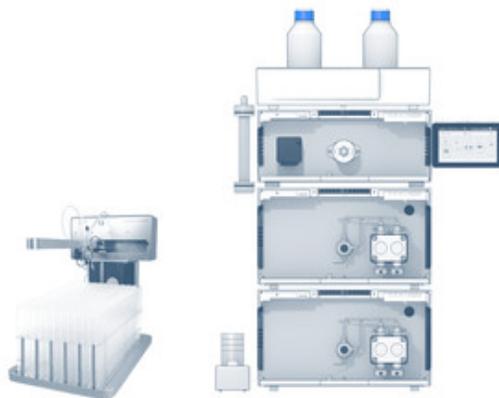
Articlename: AZURA Prep Pilot LC 1000 HPG

## AZURA Prep Pilot LC system, high pressure gradient Flowrate up to 1000 ml/min

The AZURA Pilot Prep LC 1000 HPG system is a complete binary high pressure gradient (HPG) HPLC system for the purification of samples in the laboratory scale. It is designed and optimized for the purification of gram samples. This system proposal consists of two preparative HPLC pumps, a UV/VIS detector and a freely customizable combination module. The AZURA P 2.1L pump covers a wide flow rate range and pressure capabilities. In the current setup, it supports max. pressures up to 75 bar at flow rates up to 350 ml/min (50 bar from 600 - 1000 ml/min). The integrated automatic recognition of the pump head with RFID technology allows fast adaptations of the pump for various applications. The HPG setup enables the precise formation of binary gradients. Besides, ternary and quaternary gradients are accessible by integration of additional preparative pumps. The AZURA UVD 2.1L represents a UV/VIS detector with a variable single wavelength for the detection of fast eluting peaks. The system is completed by an AZURA assistant ASM 2.1L for preparative HPG. The assistant module can be customized to individual requirements. For

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example, large sample volumes can be applied automatically via the integrated injection valve and feed pump. The AZURA Preparative HPLC system comes with an eluent tray for safe storage of eluent bottles and an integrated leak management system with sensors. Columns (20 mm and 30 mm ID) can be attached with an optional AZURA mounting bracket at both sides of each AZURA element. A leak sensor and the capillary guidance as well as the optional Mobile Control with touch screen facilitate the safe and user friendly operation. Modern design with completely demountable fronts turn the system into a visual highlight.



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## TECHNICAL DATA

### System specification

<b>System type</b>	Lab
<b>Max. flow rate</b>	1000 ml/min
<b>Gradient</b>	hpg
<b>Maximum delivery pressure [psi]</b>	730 psi
<b>Maximum delivery pressure [bar]</b>	50 bar
<b>Maximum delivery pressure [MPa]</b>	5 MPa
<b>Detector</b>	Variable single wavelength detection UV/VIS
<b>Injection</b>	automatic injection
<b>Fractionation</b>	Foxy R2
<b>Software</b>	ClarityChrom

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## SYSTEM COMPONENTS



### AZURA P 2.1L

Article No. APE20NA

AZURA® Pump P 2.1L with 1000 ml pump head (stainless steel)

Max. flow rate : **1000 ml/min**

Pump head materials : **Stainless Steel**

Gradient : **Isocratic**

Pump features : **Piston seal wash, Purge valve (manual), RFID for automatic pump head detection, Active pulsation compensation, Standalone control and programming, Integrated pressure sensor**

Maximum delivery pressure [MPa] : **7,5 MPa**



### AZURA UV/VIS Detector UVD 2.1L

Article No. ADA01XA

AZURA® Detector UVD 2.1L with deuterium lamp without flow cell, incl. test cell

Detector type : **Variable single wavelength UV detector**

Detection channels : **1**

Wavelength range : **190 - 750 nm**

Linearity : **> 2.0 AU at 274 nm (ASTM E1657-98)**



### AZURA Assistant ASM 2.2L

Article No. AY00139

Left module: Empty module Middle module: Valve drive VU 4.1 - EWA04  
Right module: Pump P 4.1S, 50 bar, 50 ml, stainless steel - DPG12FA

Left module : **Empty module**

Middle module : **Valve drive VU 4.1 - EWA04**

Right module : **Pump P 4.1S, 50 bar, 50 ml, stainless steel - DPG12FA**

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### AZURA V 4.1 Valve

Article No. AVE25AE

2-position valve, 6 Port, DLC stainless steel, PEEK, 1/8", 300 bar, 1.5 mm bore size

Operated : **electrical by VU 4.1**

Port number : **6**

Positions : **2**

Material : **Stainless steel**

Capillary connection : **1/8"**



### Preparative UV Flow Cell

Article No. A4068

2 mm path length, 1/4" angular connections, 200 bar, stainless steel, changeable to 0.5/1.25 mm, without fittings, classical KNAUER flow cell

Flow cell type : **Preparative UV flow cell**

Path length : **0.5 / 1.25 / 2 mm**

Capillary connection : **1/4" (angular connections)**

Max. flow rate : **10000 ml/min**

Flow cell volume : **1.7 / 4.3 / 6.8 µl**



### Chromatography Workstation: PC plus monitor

Article No. A13120

Desktop PC (SFF) for PurityChrom® and ClarityChrom® with 24" monitor, English edition Windows 10 Prof. 64-bit English, Intel® Core™ i5, 8 GB RAM, 256 GB SSD, two network cards

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### **Router 8-Port LAN, WiFi, EU version**

Article No. A64809

WiFi router, 8x LAN GBit RJ-45 ports, 1x WAN GBit RJ-45 port



### **Tool kit AZURA**

Article No. A1033

Tool Kit AZURA® for systems with PEEK or pre-cut capillary kits

Type : **Tool kit**



### **AZURA Start-Up Kit 1/4" HPG, stainless steel**

Article No. A9850-2

AZURA® Start-Up Kit 1/4" HPG, stainless steel, set of capillaries and fittings



### **PurityChrom® Basic**

Article No. A2650

Basic License for one system

Software name : **PurityChrom® 5**

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### Rack for Foxy R2

Article No. A59114

Rack for 2 x 9 bottles 480 ml for Foxy® R2 (not suitable for Foxy® R1, bottles too tall)



### 40 ml KNAUER VariLoop L for 1/8" tubings

Article No. A1160-1

KNAUER VariLoop L, 40 ml, 1/8", stainless steel, variable injection volume and multiple injections



### Pressure release valve

Article No. A5801

Pressure Release Valve Kit for AZURA® pump P 2.1L and 80P (3,4 to 24 bar), 1/8", stainless steel, cross piece titanium



### Mobile Control Tablet Mount

Article No. A9617

Mobile Control Mount - flexible tablet mount for tablets

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### Fraction Collector Foxy R2

Article No. A591021

Fraction collector Foxy® R2 for 1/4" tubing

Max. flow rate : **1000 ml/min**

Capillary connection : **1/4"**

Brand : **Foxy R2**

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### Rack for Foxy R1/R2

Article No. A59110

Rack for 36 Falcon 50 ml for Foxy® R1/R2

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## ACCESSORIES & SPARE PARTS



**Mounting bracket AZURA  
L**  
Mounting bracket AZURA®  
L for columns with 25 - 29  
mm AD

**Article No.: A9853-3**



**Torque wrench**  
Torque wrench basic tool,  
1-25 Nm, without plug-in  
head

**Article No.: X0219**



**Product riser AZURA**  
Product Riser AZURA®:  
Set of 4 feet that lift the  
device to a height of 28  
mm for easy handling of  
the waste tube of the  
drainage system

**Article No.: A9860**



**Pump head inlet**  
Pump head inlet for  
AZURA® Pump P 2.1L,  
BlueShadow 80P, 1/4"  
(NPT), stainless steel,  
max. flow 250 ml/min

**Article No.: A9861**

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## DOCUMENTS AND MORE INFORMATION

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### **AZURA SMB systems instructions EN (V6775)**

Manual    English

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### **AZURA Präparatives System Installationskarte DE (V6800)**

Manual    German

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### **AZURA pre-installation guide for analytical systems User Manual EN (V6802-Ana)**

Manual    English

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### **AZURA Preparative HPLC brochure**

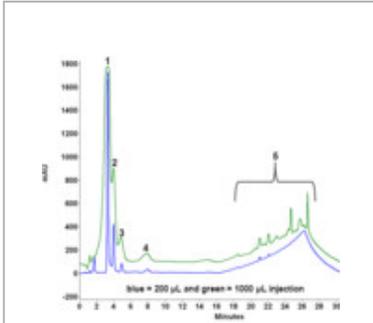
AZURA Preparative HPLC brochure, V7820US

Brochure    English

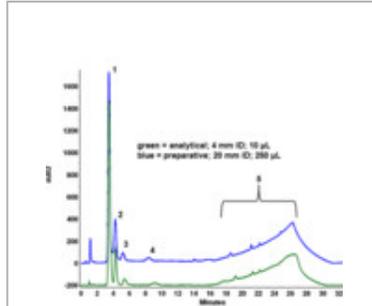
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## APPLICATIONS FOR THIS PRODUCT



**Preparative  
Separation of Apple  
Flavours from  
Extract**



**Scale-Up for  
Preparative  
Separation of Apple  
Flavours from  
Extract**

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## RELATED PRODUCTS



**Fraction Collector Foxy R2**  
 Fraction collector Foxy®  
 R2 for 1/4" tubing  
**Article No.: A591021**



**AZURA Prep Pilot LC system, isocratic**  
 P 2.1L Pump with 250 ml/min pump head ASM  
 2.1L Assistant with feed pump, fractionation and injection valve UVD 2.1L Detector  
**Article No.: 744201010**



**AZURA Prep Pilot LC system, low pressure gradient**  
 P 2.1L Pump with 250 ml/min pump head and LPG-block ASM 2.1L Assistant with UV-Detector and fraction valve Feed introduction via LPG-Channel or manual injection valve  
**Article No.: 741102010**



**AZURA Prep Pilot LC system, high pressure gradient**  
 2 x P 2.1L Pump with 250 ml/min pump head ASM 2.1L Assistant with feed pump, fractionation and injection valve UVD 2.1L Detector  
**Article No.: 744203110**



**AZURA Prep Pilot LC system, isocratic**  
 P 2.1L Pump with 100 ml/min pump head ASM 2.1L Assistant with feed pump, fractionation and injection valve UVD 2.1L Detector  
**Article No.: 755201110**



**AZURA Prep Pilot LC system, high pressure gradient**  
 2 x P 2.1L Pump with 100 ml/min pump head ASM 2.1L Assistant with feed pump, fractionation and injection valve UVD 2.1L Detector  
**Article No.: 755203110**

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## RELATED FAQs

### How much detection does a preparative HPLC system need?

Detection | Preparative HPLC

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### Do you need more details or a quote?

We are happy to help you



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sales@knauer.net

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