



Article No.: 752102142

Article name: AZURA Prep Pilot LC 100 LPG

AZURA Prep Pilot LC system, low pressure gradient

Preparative system with 100 ml/min max. flow rate and ternary gradient

The AZURA Pilot Prep LC 100 LPG system is a low pressure gradient (LPG) HPLC system for the purification of samples in the laboratory scale. The AZURA Preparative HPLC system is designed and optimized for the purification of milligram to gram samples.

System components

The system proposal consists of a preparative HPLC pump with ternary LPG valve block and an Assistant ASM 2.1 L with UV-detector UVD 2.1S and an electric injectino valve. Due to the KNAUER VariLoop smal and large sample volumes can be injected easily into the system. 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 400 bar at flow rates up to 100 ml/min. The integrated automatic recognition of the pump head with RFID technology allows fast adaption of the pump for various applications.

The LPG valve block enables the accurate
fr ternary or ternary gradients. The
F Help an collector can be adapted to a

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broad spectrum of applications. Fractions can be collected into 96 well microplates, standard tube sizes, and bottles. For essentially unlimited volumes, funnel racks can direct fluids to any collection vessel or downstream process. 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

System type	Pilot
Max. flow rate	100 ml/min
Gradient	lpg
Maximum delivery pressure [psi]	5800 psi
Maximum delivery pressure [bar]	400 bar
Maximum delivery pressure [MPa]	40 MPa
Detector	Variable single wavelength detection UV/VIS
Injection	automatic injection
Fractionation	Foxy R1
Software	PurityChrom

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SYSTEM COMPONENTS



AZURA P 2.1L

Article No. APE20KA

AZURA® Pump P 2.1L with 100 ml pump head (stainless steel)

Max. flow rate : **100 ml/min**

Pump head materials : **Stainless Steel**

Gradient : **Isocratic**

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

Maximum delivery pressure [MPa] : **40 MPa**



AZURA Assistant ASM 2.2L

Article No. AY01421

Left module: UV detector UVD 2.1S - EDA03XA Middle module: Valve drive VU 4.1 - EWA04 Right module: Empty module

Left module : **UV detector UVD 2.1S - EDA03XA**

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

Right module : **Empty module**



AZURA V 4.1 Valve

Article No. AVD26AE

2-position valve, 6 Port, DLC stainless steel, PEEK, 1/16", 500 bar, 0.75 mm bore size

Operated : **electrical by VU 4.1**

Port number : **6**

Positions : **2**

Material : **Stainless steel**

Capillary connection : **1/16"**

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AZURA LPG ternary module for Pump P 2.1L

Article No. AZZ00AB

LPG module for Pump P 2.1L ternary up to 220 ml/min (stainless steel)



Dynamic mixer

Article No. A0581

Dynamic mixing chamber (250 V), stainless steel, preparative, 1/8", up to 250 bar, 5.9 ml mixing volume

Mixing volume : **5.9 ml**

Pressure rating : **max. 250 bar (25 MPa)**

Recommended flow rate : **< 100 ml/min**



Preparative UV Flow Cell

Article No. A4069

0.5 mm path length, 3 µl, 1/16", 200 bar, stainless steel, classical KNAUER flow cell

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

Path length : **0.5 mm**

Capillary connection : **1/16"**

Max. flow rate : **250 ml/min**

Flow cell volume : **3 µl**

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10 ml KNAUER VariLoop S for 1/16" tubings

Article No. A1054-2

KNAUER VariLoop S, 10 ml, 1/16", stainless steel, variable injection volume and multiple injections



Fraction Collector Foxy R1

Article No. A59100

Fraction collector Foxy® R1 for 1/16" or 1/8" tubing

Max. flow rate : 25 ml/min or 125 ml/min

Capillary connection : 1/16" or 1/8"

Brand : Foxy R1



AZURA Eluent tray E 2.1L

Article No. AZC00

AZURA® Eluent tray E 2.1L for AZURA® devices with a capacity of 6 x 1 l bottles or 4 x 2.5 l bottles or 2 x 5 l bottles, (delivery without bottles)

Type : Eluent tray



Router 8-Port LAN, WiFi, international

Article No. A64809INT

WiFi router, 8x LAN GBit RJ-45 ports, 1x WAN GBit RJ-45 port, power plug UK, US or AUS

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Inlet-bushing kit LPG

Article No. A58206

Solvent Filter 1/4" PTFE tubing max Flow 250 ml/min



PurityChrom® Basic

Article No. A2650

Basic License for one system

Software name : **PurityChrom® 5**

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ACCESSORIES & SPARE PARTS



Multi Column Base

Multi Column Base serves as a holder for up to 3 columns with inner diameter up to 50 mm, especially made for preparative column solutions

Article No.: A0070A



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



Installation Box Kit

Installation Box Kit, Box for small parts, KNAUER file folder and support sticker

Article No.: A9862



Set of eluent supply bottles

Set of eluent supply bottles, 3 x 2.5 L brown glass bottles (borosilicate glass) with special round bottom for minimal eluent remainder, for preparative HPLC/FPLC, includes screw-type cap

Article No.: A70037



1 ml Sample loop

Sample loop, 1 ml, stainless steel, 2.2 mm ID

Article No.: A1043

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Injection syringe
Injection syringe 2500 µl
Article No.: A0730



**Adapter to connect a
capillary with 1/16" OD to
a 1/8" thread**
Adapter to connect a
capillary with 1/16" OD
(thread: 10-32 UNF) to
AZURA® Pump P2.1L or
BlueShadow Pump 80P
outlet (1/8", M8x1 thread),
material: stainless steel, 2
pcs.

Article No.: A7200

DOCUMENTS AND MORE INFORMATION

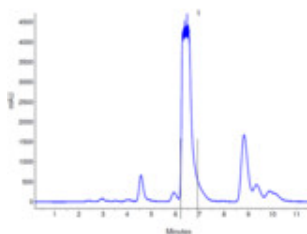
AZURA Preparative HPLC brochure

AZURA Preparative HPLC brochure, V7820US

Brochure English

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APPLICATIONS FOR THIS PRODUCT



**Preparative
purification of
Piperine from black
Pepper**

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RELATED PRODUCTS

**AZURA Prep Pilot LC
system, low pressure
gradient**

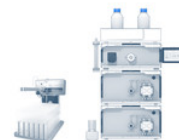
Preparative ternary
gradient system with 100
ml/min max. flow rate at
up to 400 bar

Article No.: 752102112

**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, high pressure
gradient**

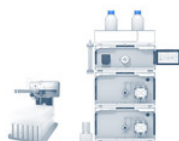
2 x P 2.1L Pump with 250
ml/min pump head ASM
2.1L Assistant with feed
pump, fractionation and
injection valve UVD 2.1L
Detector

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 1000
ml/min pump head ASM
2.1L Assistant with feed
pump and injection valve
UVD 2.1L Detector

Article No.: 724203110

**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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Monitor
19-Inch LCD Monitor
Article No.: A1612



**Mobile Control Tablet
Mount**
Mobile Control Mount -
flexible tablet mount for
tablets
Article No.: A9617



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