



Article No.: A46010

Articlename: SYS998603200 AZURA UHPLC HPG System

High Pressure Gradient UHPLC 1000 bar System with 3D diode array detector 190-1000 nm

System Proposal

Eluent delivery

The UHPLC **Pump P6.1L with a HPG configuration** features a solvent selection valve to set up to 4 solvents to the system of which two can be blended simultaneously at up to 1000 bar. The internal degassing unit will prevent air bubbles in the system. Every P 6.1L comes with an attached mixing chamber, which can be changed to a larger volume depending on the applications needs.

Sample Injection

The **Autosampler 6.1L** can inject 0.1 – 5000 µl to have a large flexibility. Using standard vials or two microtiter plates will give you a maximum sample capacity of up to 768 samples or 108 vials. The UHPLC version can be used up to 1240 bar system backpressure.

Column thermostating

The **Column thermostat CT 2.1** is suitable for column thermostating above and below room temperature. The instrument operates with a microprocessor controlled Peltier element for exact temperature settings.

Chromatography data system

KNAUER **ClarityChrom®** is a powerful, yet easy-to-use chromatography software for instrument control, data acquisition and data processing. It is an economical solution compared to other more complex chromatography software while still offering FDA 21 CFR Part 11 compliance.

Detection

The **diode array detector DAD 6.1L** covers all conceivable applications with a spectral range of 190-1000 nm. With its novel light path and optimized flow cells, it is one of the most powerful devices on the market.

This AZURA Analytical system can be customized with several detectors



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or **DAD 2.1L** features a novel light path and flow cell architecture with improved handling and excellent performance. This Diode array

detector can be used in the wavelength range of 190-700 nm.

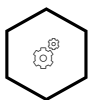
- The detector **MWD 2.1L** is an 8 channel, sensitive multiwavelength detector combining high performance with easy handling at an affordable price. This multiwavelength detector can be used in the wavelength range of 190-700 nm.
- The variable single wavelength UV/VIS detector **UVD 2.1L** comes with an installed deuterium lamp which covers a wavelength range from 190 to 750 nm. It is a competitively priced detector for routine HPLC applications including fast LC methods.

System Configuration: High Pressure Gradient UHPLC System with	System code
3D diode array detector 190-1000 nm	998603200
3D diode array detector 190-700 nm	998503200
Variable multi wavelength UV/VIS detector	998403200
Variable single wavelength UV/VIS detector	998203200
Fluorescence Detector	998803200

Customized configurations like combinations of several detectors are also available. Please contact us!



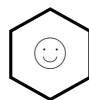
KEY FEATURES



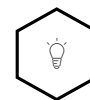
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management



Customized solutions



60 years experience



60 years experience

TECHNICAL DATA

Analytical system

Application area	HPLC
Pump system	Gradient
Gradient	Binary HPG
Injection	Autosampler
Detector	Diode array detection DAD
Software	ClarityChrom
Pressure	1000 bar
Column thermostat	Yes

SYSTEM COMPONENTS



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**

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High pressure HPLC pump for Ultra High Pressure Applications

Article No. APH35GA

AZURA® Pump P 6.1L (HPG), with 5 ml pump head (stainless steel), degasser and mixer (100 µl)

Max. flow rate : **5 ml/min**

Pump head materials : **Stainless Steel**

Gradient : **High pressure gradient (binary)**

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

Maximum delivery pressure [MPa] : **100 MPa**

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**Set of 2 eluent supply bottles 1000 ml and 1 bottle for piston backflushing**

Article No. A5324-4

Set of 2 eluent bottles 1000 ml, 1 bottle 250 ml for piston backflushing, incl. closed caps, GL45
use with AZURA tubing kit

[Show product](#)**Eluent waste kit for AZURA Analytical systems**

Article No. A59258

Eluent waste kit for all AZURA Analytical systems, incl. filter, waste can and cap

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High pressure analytical HPLC Autosampler

Article No. AAA10AA

AZURA® Autosampler AS 6.1L analytical HPLC autosampler, 1240 bar

Maximum back pressure : **1240 bar**

Sample loop : **10 µl**

Sample tray cooling : **None**

Autosampler Flow Path : **Analytical**

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Screw neck vial set N9, 1.5 ml, clear, wide opening, 100x

Article No. A0638-6

Vials: Screw neck vials N9 (ø 11.6 mm), 1.5 ml, clear glass, flat bottom, wide opening, with label & scale

Caps: Screw caps blue with septum silicone beige/PTFE white
100 pcs each

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Column thermostat for up to 8 HPLC columns

Article No. ATC00

Column thermostat AZURA CT 2.1 for constant temperatures and reproducible results

Temperature range : 5–85 °C

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High-End Diode Array Detector for Liquid Chromatography and Process Technology

Article No. ADC11

AZURA® Detector DAD 6.1L Diode array detector DAD 6.1L without flow cell 190 - 1000 nm,
incl. test cell

Detector type : **Diode array detector**

Detection channels : **8 (Digital)/4 (Analog)**

Wavelength range : **190 - 1000 nm**

Number of diodes : **1024**

Linearity : **> 2.5 AU at 274 nm (ASTM E1657-98)**

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Analytical KNAUER PressureProof UV Flow Cell Cartridge

Article No. AMC38

10 mm path length, 10 μ l, 1/16", 300 bar, PressureProof Flow cell cartridge for AZURA® Detector DAD/MWD

Flow cell type : **Analytical UV flow cell**

Path length : **10 mm**

Capillary connection : **1/16"**

Max. flow rate : **20 ml/min**

Flow cell volume : **10 μ l**

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ClarityChrom 8.7 - Workstation, autosampler control included

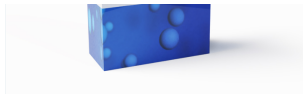
Article No. A1670

ClarityChrom® single instrument license for one time base

Software name : **ClarityChrom**

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ClarityChrom 8.7 - PDA extension

Article No. A1676

ClarityChrom® option for PDA data processing

Software name : **ClarityChrom**

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Chromatography Workstation for PurityChrom® and ClarityChrom®, PC with 24" 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

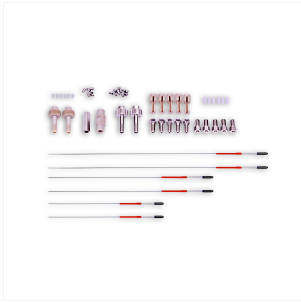
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WiFi router, 8x GBit RJ-45 ports, for connection of AZURA devices with a PC

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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Start-Up Kit with flexible, pre-cut capillaries for analytical HPLC and UHPLC systems with 1/16" connections

Article No. AZF40

Set of pre-cut capillaries 0.1 mm, fittings, connectors and adapters, red

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Tool kit AZURA

Article No. A1033

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

Type: Tool kit

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DOCUMENTS AND MORE INFORMATION

AZURA Analytical HPLC and UHPLC brochure

AZURA Analytical HPLC/UHPLC brochure, V7852US

Brochure English

AZURA System Selection Guide (V7857US)

System suggestions for analytical HPLC/UHPLC, FPLC, preparative LC and sample preparation systems. English language, V7857US

Brochure English

RELATED PRODUCTS



**Basic Diode Array Detector for
Liquid Chromatography and
Process Technology**

AZURA® Detector DAD 2.1L
Diode array detector DAD 2.1L
without flow cell 190 - 700 nm,
incl. test cell

Article No.: ADC01



**Versatile Multi Wavelength UV-
Detector for Liquid
Chromatography and Process
Technology**

AZURA® Detector MWD 2.1L
Multiwavelength detector MWD
2.1L, without flow cell 190 - 700
nm, incl. test cell

Article No.: ADB01



**Superior Single Wavelength UV-
Detector for Liquid
Chromatography and Process
Technology**

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

Article No.: ADA01XA



**Basic Fluorescence Detector for
Liquid Chromatography**

Fluorescence detector RF-20 A
200 - 650 nm incl. accessories
and flow cell

Article No.: A59200

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ISO 9001

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Environmental
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tech laboratory instruments for research, routine analysis and production for 59 years.

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In addition, we have extended documentation about all our products, including **CE Declarations of Conformity**.

[See all CE Declarations of conformity](#)

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Do you need more details or a quote?

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