



Article No.: A46026

Articlename: AZURA 862 ULDC HPG System DAD 2.1L

ULDC system AZURA 862 with binary HPG pump and 3D diode array detector

ULDC (ultra low dispersion chromatography) system proposal

The new ULDC (ultra low dispersion chromatography) system meets the enormous requirements that are essential to minimize extra column volume and thus peak dispersion.

- Ultra low dispersion volume due to optimized injection, flow and detection components
- Conventional method (also gradient) can directly be transferred to ULDC system without any adaptations
- Sharper early-eluting peaks generate better sensitivities and resolution

Eluent delivery

The 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. 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.

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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.

Column thermostating

The Column thermostat CT 2.1 is suitable for column thermostatzation 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 detector 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.

This AZURA ULDC system can be customized with several detectors:

- 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.
- 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

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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.

Customized configurations like combinations of several detectors are also available. Every AZURA 862 HPLC system can easily be upgraded to ULDC and it is not necessary to purchase a UHPLC system with higher back pressure capabilities.

Please contact us!



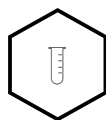
KEY FEATURES



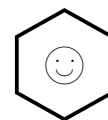
Ultra sharp peaks



Maximum separation power



Ultra low extra column volume



Better performance than HPLC

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TECHNICAL DATA

Analytical system

Application area	UHPLC, HPLC
Pump system	Gradient
Gradient	Binary HPG
Injection	Autosampler
Detector	Diode array detection DAD
Software	ClarityChrom, Mobile Control
Pressure	862 bar
Column thermostat	Yes

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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**



AZURA P 6.1L

Article No. APH35EA

AZURA® Pump P 6.1L (HPG), with 10 ml pump head (stainless steel), degasser and mixer (100 µl)

Max. flow rate : **10 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] : **86 MPa**



Autosampler AS 6.1

Article No. AAA50AA

AZURA® Autosampler AS 6.1L analytical HPLC autosampler, 862 bar

Maximum back pressure : **862 bar**

Sample loop : **100 µl**

Sample tray cooling : **None**

Autosampler Flow Path : **Analytical**

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AZURA Detector DAD 2.1L

Article No. ADC01

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

Detector type : **Diode array detector**

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

Wavelength range : **190 - 700 nm**

Number of diodes : **256**

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



AZURA CT 2.1

Article No. ATC00

Column thermostat AZURA CT 2.1 for constant temperatures and reproducible results

Temperature range : **5–85 °C**



Standard KNAUER LightGuide UV Flow Cell Cartridge

Article No. AMC19XA

10 mm path length, 2µl, 1/16", 50 bar, LightGuide 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 : **5 ml/min**

Flow cell volume : **2 µl**

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Set of eluent supply bottles for analytical HPG systems

Article No. A5324-4

Set of eluent supply bottles, 2 x 1 L bottles and 1 x 250 ml bottle for piston backflushing, includes closed screw caps



AZURA 862 ULDC Kit

Article No. A9990

Contains two capillaries to connect the autosampler with the column and the column with the detector



Eluent waste kit for AZURA Analytical systems

Article No. A59258

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



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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ClarityChrom 8.2.3 - Workstation, autosampler control included

Article No. A1670

ClarityChrom® single instrument license for one time base

Software name : **ClarityChrom**



ClarityChrom 8.2.3 - PDA extension

Article No. A1676

ClarityChrom® option for PDA data processing

Software name : **ClarityChrom**



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

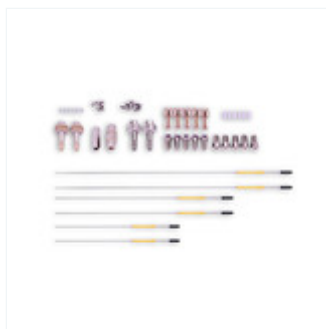


Router 8-Port LAN, WiFi, international

Article No. A64809INT

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

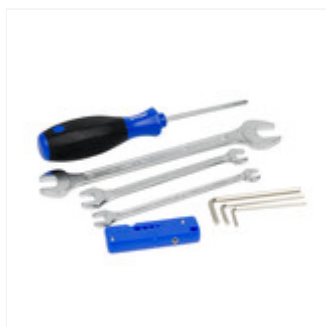
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AZURA® Analytical K-Connect start-up kits, stainless steel, 1/32" capillaries with fitting sleeves for 1/16" connections

Article No. AZF50

Set of precut capillaries 0.18 mm ID, fittings, connectors and adapters, yellow



Tool kit AZURA

Article No. A1033

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

Type : **Tool kit**

DOCUMENTS AND MORE INFORMATION

AZURA Analytical HPLC and UHPLC brochure

AZURA Analytical HPLC/UHPLC brochure, V7852US, V4, 2017-08

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

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RELATED PRODUCTS



**High-End Diode Array
Detector for Liquid
Chromatography and
Process Technology**
AZURA® Detector DAD
6.1L Diode array detector
DAD 6.1L without flow cell
190 - 1000 nm, incl. test
cell

Article No.: ADC11



**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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Do you need more details or a quote?

We are happy to help you



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