



Article No.: A46024

Articlename: AZURA LC Column Test System

HPLC system for automated LC column testing

Automated testing of up to 8 columns

The basic system configuration consists of an isocratic pump, an autosampler, a column selection assistant and a variable single wavelength UV detector as well as the customizable Chromatography software including the column test option.

Quality control of analytical and preparative HPLC columns as well as FPLC columns is a crucial step for column manufacturers or facilities which strongly rely on liquid chromatography like contract laboratories. Inspecting one column after another is work-intensive and time-consuming and therefore target for automation. Once started, the automated column testing requires no further support. For overnight measurements, results are available the next morning. Alternatively, column tests can be performed continuously. Columns that have already been examined can be removed during the test process and exchanged for new, untested columns.

After the quality test, a **test certificate** displaying the column and method specifications, the chromatogram and the **report** generated for each column. The design and content of the column test report

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can be customized. An easily editable parameter list manages the specifications and test methods of several thousand columns, so that the right method for a column test can easily be chosen via the column specification. An intelligent search allows a quick selection of the desired column in the software. For a fast and intuitive operation, the column test option features an own user interface. The number of clicks to setup the test sequence has been reduced to a minimum.

The hardware as well as the software is flexible allowing different system layouts. Depending on the column specifications, a high pressure, a biocompatible or a high flow rate system variant are available. Even the number of columns to be tested can be adapted depending on the size of the columns. The default system processes up to 8 columns. For smaller columns a system layout for 16 columns is feasible.

The LC Column Test System assures the quality of HPLC/FPLC columns at a minimum time and effort and is recommended for users that test LC columns regularly. Therewith, it is tailor made for LC column manufacturers and every lab that is working with high throughput column testing.



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TECHNICAL DATA

Analytical system

Application area	HPLC
Pump system	Isocratic
Gradient	None
Injection	Autosampler
Detector	Variable multiwavelength detection UV/VIS
Software	Mobile Control
Pressure	862 bar
Column thermostat	No

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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**



Eluent supply bottle 1000 ml

Article No. A5325

Eluent supply bottle 1000 ml, GL45 thread, square, Clear glass, with screw cap with 2 holes for tubing



250 ml Bottle

Article No. A2056

250 ml Bottle for Piston Back Flushing



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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AZURA P 6.1L

Article No. APH30EA

AZURA® Pump P 6.1L isocratic, without degasser, with 10 ml pump head (stainless steel)

Max. flow rate : **10 ml/min**

Pump head materials : **Stainless Steel**

Gradient : **Isocratic**

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**



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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AZURA UV Detector UVD 2.1S

Article No. ADA00

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

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

Detection channels : **1**

Wavelength range : **190 - 500 nm**

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



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**



AZURA Assistant ASM 2.2L

Article No. AY00008

Left module: Valve drive VU 4.1 - EWA04 Middle module: Empty module

Right module: Valve drive VU 4.1 - EWA04

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

Middle module : **Empty module**

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

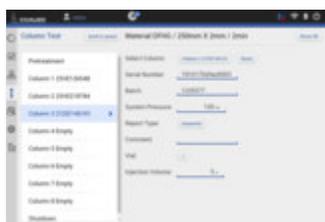
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Column holder for ASM 2.2L

Article No. AG2022B

Column holder for slots without an plug-in module



Mobile Control Chrom License with column test option

Article No. A9613

Mobile Control Chrom with data acquisition and column test option

Software name : **Mobile Control Chrom - display software for AZURA devices with data acquisition**



11.6" Tablet

Article No. A13125V1

for Mobile Control (Chrom)

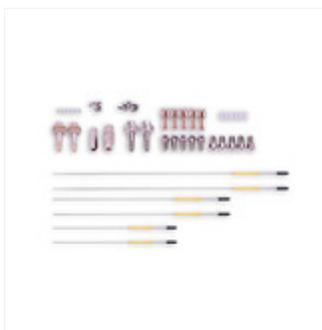


Router 8-Port LAN, WiFi, international

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 System Selection Guide (V7857US)

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

Brochure English

AZURA Analytical HPLC and UHPLC brochure

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

Brochure English

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