



Article No.: Sugar Purification System
Articlename: Sugar Purification System

Sugar Purification System

Dedicated to the separation of sugars, organic acids and alcohols

This very compact system is specially designed to separate different natural components, like carbohydrates, alcohols and organic acids. It is optimized for the separation of several hundred mg to gram per day.

System components

The heart of the system is the superior AZURA refractive index detector RID 2.1L HighFlow with an outstanding linear range and sensitivity. The intelligently designed optical unit with advanced temperature control ensures high sensitivity, fast baseline stabilization, and excellent reproducibility. The wide linear dynamic range and 100 ml/min maximum flow rate make the AZURA RID 2.1L HighFlow the perfect choice for most laboratory tasks and it is an excellent device for semi-preparative purification of sugars using the KNAUER Eurokat columns. The other systems component is the AZURA Assistent ASM 2.1L. This sugar purification assistant combines the functionality of two different devices, a pump and a valve. The isocratic AZURA Pump P 4.1S can work with flow rates up to 50 ml/min and a maximum pressure of 150 bar. The 12 port multi-position valve AWA20BG for fractionation is made of stainless steel and has a maximum flow rate of 500 ml/min. This price attractive system is made in Germany and fulfills the highest quality standards. To see the power of the compact AZURA system, take a look at our application where we purified xylitol from fermentation mash.



TECHNICAL DATA

System specification

System type	Lab
Max. flow rate	50 ml/min
Gradient	Isocratic
Maximum delivery pressure [psi]	2180 psi
Maximum delivery pressure [bar]	150 bar
Maximum delivery pressure [MPa]	15 MPa
Detector	Refractive index detection RI
Injection	manual injection
Fractionation	multi-position valve
Software	PurityChrom

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)



AZURA Assistant ASM 2.1L

Article No. AYFALXBR

12Mpos, 1/8", sst, 25 bar – Empty module – P 4.1S, 50 ml, stainless steel

Function : **Eluent delivery, Sample selection, Eluent selection, Fraction collection**



High Flow Rate Compatible Refractive Index Detector for Liquid Chromatography and Process Technology

Article No. ADD38

AZURA® Detector RID 2.1L HighFlow preparative refractive index detector with flow cell

Detector type : **Refractive index detector**

Detection channels : **1**

Linearity : **> 4000 µRIU**

**Set of eluent supply bottles for analytical HPG systems**

Article No. A5324-1

Set of eluent supply bottles, 2 x 1 L bottles, includes screw caps with holes for eluent tubing

**250 ml Bottle**

Article No. A2056

250 ml Bottle for Piston Back Flushing

**1 ml Sample loop**

Article No. A0567

Sample loop, 1000 µl, stainless steel, 1 mm ID

**Temperature Control for KNAUER Column Heating Sleeve / Pump head heater**

Article No. A57024

Temperature controller for heating sleeve 2300 W (10 A) 230 VAC



Column Heating Sleeve for 150 x 20 mm Columns

Article No. A57026

Heating sleeve for HPLC column 150 x 20 mm HM D=25..57*L=193 mm
100 °C, 230V, 200W, Pt100



AZURA V 2.1S valve

Article No. AVI26BC

Manual 6 Port 2-position valve, stainless steel, 1/16", 400 bar

Operated : **manual**

Port number : **6**

Positions : **2**

Capillary connection : **1/16"**

Max. pressure [bar] : **400 bar**



Mounting bracket AZURA L

Article No. A9853

Mounting bracket AZURA® L for KNAUER manual injection valves



Capillaries, AZURA® Analytical K-Connect, stainless steel, 1/32" with fitting sleeve for 1/16"connections

Article No. AZF62

Stainless steel, 0.45 mm ID, 300 mm length, black



Capillaries, AZURA® Analytical K-Connect, stainless steel, 1/32" with fitting sleeve for 1/16" connections

Article No. AZF63

Stainless steel, 0.45 mm ID, 400 mm length, black



PurityChrom® Basic

Article No. A2650

Basic License for one system

Software name : **PurityChrom® 5**



NETGEAR Switch 8-Port international

Article No. A3119INT

8-port LAN GB Switch NetGear GS108GE 8x RJ-45, Gigabit, Auto-MDIX power plug UK/US/ AUS



Chromatography Workstation

Article No. A13120

Chromatography Workstation for PurityChrom® and ClarityChrom® with 24" monitor, Windows 10, Intel® Core™ i5, 8 GB RAM, 256 SSD, two network cards, international edition

**FEP tubing**

Article No. A9869-1

FEP tubing, 1/16" OD, 0.81 mm ID, 300 cm length

**Biconical sealing rings, 10 pc.**

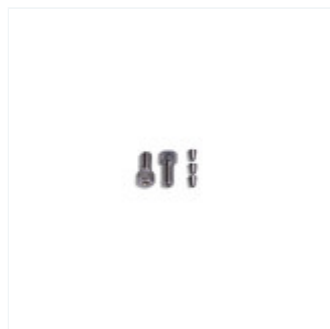
Article No. A0738

10 biconical sealing rings 1/8" PETP

**Adapter 1/16" to M8x1 thread**

Article No. A7200

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, for

**K-Connect Standard Fitting**

Article No. A9647-1

K-Connect Standard Fitting, Stainless Steel, Set of 10, incl. ferrule, UNF 10/32 Thread for 1/16 inch K-Connect Capillaries

**DYNASEAL connection system**

Article No. A1201

DYNASEAL connection system for 1/8", 4 long bushings, hexagon head 10mm, stainless steel

**Injection syringe**

Article No. A0730

Injection syringe 2500 µl

DOCUMENTS AND MORE INFORMATION**AZURA Preparative HPLC brochure**

AZURA Preparative HPLC brochure, V7820US

Brochure English PDF 2.0 MB
