

Solvent Control^{2.0}



Introduction

Is your solvent supply „state of the art“?

In order that modern LC-MS Systems are able to fully exploit their capabilities, it's necessary to meet the highest requirements also in the supply of the devices. Sensitivity and detection limit are reduced drastically by blank values and bleaching - introduced by valves and fittings.

Besides the analytical requirements in the solvents like Methanol and Acetonitrile also the issue of job safety has to be considered.

Solvent Control 2.0 offers a modern and contamination free system for safe distribution of eluents and solvents for chromatographic systems (UHPLC - MS, LC - MS...). By the patented concept, the eluent comes in contact with glass and PTFE only.

The resourcing of solvents on the HPLC tower and the handling in the bottle change is made easier and safer by Solvent control 2.0.

Application Area:

Safe supply of eluents and solvents for liquid handling devices and chromatographic systems (UHPLC-MS, LC-MS...)

Interruption-free provision with ultra clean eluents by automatic reservoir switching e.g. for High throughput systems.

Observing the legal requirements for substances of the protection level 3 (methanol and acetonitrile)

Safe collection and storage of solvent waste out of LC-systems.

Safety concepts:

The system includes the following safety functions:

Completely closed against the lab environment; no exposition with toxic vapours.

Media-bearing tubes are realized double-walled.

Possible leakages are led in a steal tub in the safety cabinet and observed by a sensor.

The reservoir bottles are stored in an aspirated safety cabinet.

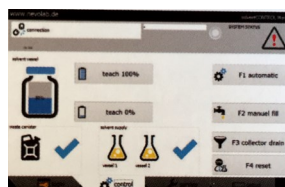
Pressure regulating valve on 0,4 bar.

Plastic coated storage bottles.

The system is deaerated and set pressure-less by opening the door.

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lab data management

Technical data:	Solvent Control 2.0
Article Number	8014 200 and 8014 300
Dimensions	245 x 245 x 720 mm (W x D x H) (with vessel)
Housing	Stainless steel
Weight	Ca. 16 kg
Power Supply	
Power supply	220 - 230 V 50 Hz
Power demand	30 W
Typ. Current consumption	0,96 A
Backup value	2 x T 2,0 A
Safety class	1
Safety type IP	IP 20
Hardware/ Controlling	
System	SPS Module 24 V, integrated web server, data logging with internal SD card, 4 relays
Handling	6 pressure point buttons; 4 function buttons; 2 scanning buttons
Display	6 - line text display, 3 background colours, 61 x 33 mm; contrast adjustable
Interfaces	
Data	2 x RJ network connection USB 2.0 Port
Alerting	M16 receptacle, 5 poles for potential free contact
Sensor technology	
Filling level intermediate level	Gravimetric filling level measuring; tolerance: 0,02 %/ 1 kg
Leakage	Fibre optics, optical, ATEX confirm
Pneumatic / Media	
Gas supply	3 - 6 bar Nitrogen min. 4.0, for 6x1 mm tube
Pressure range	0,4 bar, safety pressure control valve
Other	
Intermediate vessel	250 ml / 500 ml
Solvent storage	2 x 2500 ml
Operational conditions	15 - 25 °C, dry
Technical data:	Waste management
Article Number:	8014 100
Safety cabinet	FW 90, meets requirements of DIN EN 14470-1 and DIN EN 14727, High quality
Dimensions:	Ca. 888 x 493 x 631 mm (W x D x H)
Tank	10 Litres, stainless steel 1.4301
Weight	Ca. 134 kg
Sensor technology	
Filling level	Fibre optics, optical, ATEX confirm
Leakage	Fibre optics, optical, ATEX confirm in safety tank
Door opener	Pressure turn - off when opening the doors
Pneumatic / Media	
Gas supply	3 - 6 bar Nitrogen min. 4.0, for 6x1 mm tube
Aspiration	Min. 10 Nm ³ /h required, Connection 70 mm

Key Features:

Safe:

The system is completely closed against the lab environment; no exposition of employees by toxic vapours.

Ultra pure:

Developed to ensure highest purities of the eluents: Contact with glass and PTFE/PFA only. Easy and contamination free eluent change while run possible.

Universal:

Suitable for every HPLC System and every solvent.

Comfortable:

low maintenance times due to self-sufficient activity; > 100 h with high trough put UHPL-MS.

Wireless:

Visualization at workplace by monitoring via LAN/ Wi-Fi and a tablet PC possible.

Accessories:

8014 210 - intermediate vessel, 250 ml, GL45 cap with 2 extraction connections and 2 supply connections UNF 28, overflow GL 14

8014 910 - visualization software for flexible monitoring of the Solvent Control 2.0. for network compatible PCs.

8014 920 - configured tablet PC and docking station, software ready to use for Solvent Control 2.0.

8014 930 - WLAN router with Ethernet cable, configured for Solvent Control 2.0.