

Smartline Manager

Overview

Solvent Conditioning

One of the main functions of the Smartline Manager is to control the eluent flow to the pumping system. The unit can be configured with various degassing and low pressure gradient control valve modules. The design of the system allows for optimum tubing layout while maintaining the necessary short connections paths.

Interface Card

For additional system control functions the module can be fitted with an interface card for direct control of non-Knauer devices via analogue and relay outputs..

Degasser

The integrated degasser module uses a newly developed micro vacuum pump and a novel fluoropolymer instead of the conventional ptfе membranes. This permits a significant reduction of the dead-volume of the degasser and improved convenience when changing eluents etc.

Gradient Module

The low pressure gradient module uses a valve block made of PEEK material and is thus suitable for practically any application, particularly in the biotechnology sector.

Simple to use

The module can be controlled either by the pump unit as a stand-alone module or using our Geminix software. Versions of Geminix are also available, which conform to the FDA 21 CFR Part 11 requirements.



Specifications

Dimensions	226 x 135 x 390 mm (W x H x D)
Weight	4.8 kg
Power supply	via Smartline Pump 1000 or WellChrom K-1001 Pump
Low Pressure Gradient Module	
Number of eluents	up to 4
Gradient range	0 - 100%
Gradient increment	1%
Gradient accuracy	± 0.5%
Gradient precision	better than 1 % RSD Relative Standard Deviation
Maximum flow	50 ml/min per channel
Control	via Smartline Pump 1000
Degasser module	
Maximum flow rate	Analytical up to 10 ml/min., semi-preparative up to 50 ml/min. ml/min
Number of channels	Analytical 4, semi-preparative 2
Degassing method	Gas permeation through PTFE-AF amorphous fluoropolymer membrane
Degassing efficiency	Better than 0.5 ppm residual dissolved O ₂ at 1 ml/min
Dead volume	Analytical 480 µL per channel, semi-preparative 7.7 ml per channel
Solvent resistance	Universal except for fluorinated hydrocarbons
Wetted materials	PEEK, PCTFE, PTFE-AF
Vacuum chamber	Polypropylene and stainless steel
Vacuum pump	Micro vacuum pump with variable stepping motor
All specifications may be subject to change for technical reasons.	

Ordering Information

A5331	Smartline Manager 5050 with analytical degasser, interface and lpg modules
A5332	Smartline Manager 5050 with analytical degasser and interface modules
A5333	Smartline Manager 5050 with analytical degasser and lpg modules
A5338	Smartline Manager 5050 with semi-preparative degasser, interface and lpg modules
Accessories	
A5326	Eluent tray
A5342	Set of static mixing chambers (A5340, A5341)
A5350	SmartMix HPLC Mixer up to 0.5 ml/min.
A5351	SmartMix HPLC Mixer up to 2 ml/min.