



SunChrom Vacuum Degasser

Description

Insufficiently degassed mobile phase in HPLC will lead to higher baseline noise, spikes due to air bubbles, and significant drifting and oscillation of the detector signal in HPLC. These phenomena may lead to significant difficulties in integration of peaks and create problems for quantitative analyses. Dissolved gases affect the operation of the pump and may cause strong pulsation and flow rate changes. This results in serious retention time shifts, making analyte identification difficult.

The **SunChrom Degasser** eliminates these problems through the efficient degassing of the eluent. Vacuum degassing is an extremely efficient method of degassing mobile phase and provides a number of benefits when compared to the use of ultrasonic and helium degassing.

Functionality and benefits

Vacuum degassing is one of the most efficient methods for degassing eluents. The degasser is placed between the eluent reservoir and the solvent delivery pump. The eluent is drawn through a PTFE tube (Teflon®) that is located in a vacuum chamber. Semi-permeable PTFE tube allows small gaseous molecules to diffuse through the tubing, but the eluent molecules are unable to do so. After the eluent has moved through the PTFE tube, the gas concentration will be reduced down to < 1 ppm. The new generation of degasser have only one semi-permeable Teflon® AF tube. This material is hundredfold more permeable to gaseous substances than "simple" Teflon® and is more hydrophilic. Due to the very small surface area, biological contamination is minimal and cleaning the tubing is simplified. To rinse the degasser completely or to change an eluent you now need only 1-2 mL instead of 25-40 mL. The internal vacuum pump is also maintenance-free for 5 years.

Cross contamination between eluents is eliminated because of individual vacuum chambers for each eluate.

The **SunChrom** vacuum degasser is available with two or four channels, so that you can degass up to four eluents at the same time with a single system.

Technical specifications

Internal Volume	approx. 480 µL per channel
Pressure Drop	0.18 kPa at a flow of 1 mL/min (pure methanol)
Number of Eluents	2 or 4

General informations

Power Consumption	Extern 100 – 240 V AC, 1 A, 50 – 60 Hz 15 – 24 V DC max 0.85 A
Size (W x H x D)	73 x 127 x 250 mm (2.87 x 5 x 9.81 in)
Weight	2.4 kg (5.3 lbs)
Operating Temperature	5 - 35 °C

Order informations

Part Number	Short Description
189-0001-6352	2 Channel Degasser
189-0001-6354	4 Channel Degasser

Spare parts

Part Number	Short Description
603-P-330X	10 flangeless nut 1/4-28, for 1/8" OD tubing
603-P-300X	10 flangeless ferrule, for 1/8" OD tubing
969-190.331	solvent filter

Specifications, design or prices are subject to modifications without further notification.