

PN7520

FFF Solvent Degasser Module



PN7520 Solvent Degasser

Features

Eluent degassing with PN7520 Solvent Degasser is a critical and important step in FFF, SEC and HPLC, as oxygen and other dissolved gases affect the analysis for various reasons. Because of different pressure ratios and different temperatures along the flow path, dissolved gases can be released. This will influence the flow rate stability and detector signal noise of the analysis. Especially for analysis methods using Light Scattering, UV and RI detection, vacuum degassing method allows an operation with lowest possible detection limits due to more smooth and stable baseline conditions.

Operation Principle

In the vacuum chamber, the eluent is transferred through a special Teflon™* AF amorphous tube which acts as a semi-permeable membrane. When a high vacuum is applied, the dissolved gases diffuse through the thin wall of the tube. With a total solvent volume of 0.45 mL per degassing channel, the PN7520 has an extremely low dead volume, thus making solvent changes an easy process. The remaining minimum gas concentration will be 0.5 ppm oxygen at a flow rate of 0.5 mL/min. With a given flow rate, the degassing quality can be further increased by coupling two or several channels in series. The PN7520 Degasser is available with 4 channels, but special configurations may be possible as well. For removing possibly existing solvent traces, the vacuum pumps waste gases can be directed via a flexible tube connection to the laboratories ventilation system.



Ordering Information

S-DEG-7520-001 4-Channel Version

Special versions with different number of channels and different smaller or larger internal volumes may be provided by Postnova as well. Please inquire for possible options.

Specifications

- **Degassing Principle:**
By the use of an applied vacuum, dissolved gases are continuously removed through a semi-permeable Teflon™* AF membrane
 - **Maximum Flow Rate:**
10 mL/min for each degassing channel
 - **Channels:**
4 channels
different number of channels on request
 - **Efficiency:**
0.5 ppm oxygen at a flow rate of 0.5 mL/min
 - **Wetted Materials:**
Teflon™* AF (PTFE), PFA, PEEK, ETFE
 - **Internal Volume:**
0.45 mL per channel
 - **Status Indicator:**
Vacuum LED
Error LED
Power On LED
 - **Error Output:**
Contact closure relay
Capacity: 30 V_{DC}, 1 A
 - **Environmental Conditions:**
Operating Temperature Range:
5 – 40°C
Relative Humidity: 20 – 80 %
(non-condensing)
 - **Power Requirements:**
100 – 240 VAC @ 50 – 60 Hz,
100 W max.
 - **Dimensions:**
Length x Width x Height
430 x 270 x 90 mm
 - **Weight:**
5 kg
- * Teflon™ is a registered trademark and a brand name owned by The Chemours Company.

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