postnova analytics

advanced analytical products

PN7520
Solvent Degasser

High Efficiency Low Dead Volume Solvent Degasser

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Specifications

Degassing Principle:
By the use of an applied vacuum, dissolved gases are continuously removed through a semi-permeable *Teflon AF® membrane.

Flow Rate:
Max. 10 mL/min for each degassing channel.

Channels:
Standard: 2, 3 or 4 channels; other channel numbers in request.

Efficiency:
0,5 ppm oxygen at a flow rate of 0,5 mL/min

Parts which come in contact with the solvent:
PTFE for organic solvents
PEEK for aqueous solvents

Channel Volume:
0,85 mL per channel.

Analog Output:
Status documentation of the vacuum by an analog output.

Error Message:
Visually over LEDs at the system henind the front cover; main on/off LED line integrated outside into the system cover.

Power Requirements:
230/115 V; 50/60 Hz

Dimensions:
Width x Height x Length
285 x 65 x 420 mm

Weight:
5 kg

*® Teflon AF is a trade mark of Dupon

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Degasser PN7520

Solvent degassing is an critical and important step in FFF, SEC and HPLC, as oxygen and other dissolved gases affect the analysis for various reasons. Through 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, 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 solvent is transfered through a special TeflonAF®* amorphous tube which acts as a semi-permeable membrane. When a high vaccum is applied, the dissolved gases diffuse through the thin walls of the tube. With a an total solvent volume of 0.85 mL per degassing channel, the PN7520 has an extremly low dead volume, thus making solvents 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 inseries. The PN7520 Degasser is available with 2, 3 or 4 channels, but special configurations maybe possible as well. For removing possibly existing solvent traces, the vacuum pump´s waste gases can be directed via a flexible tube connection to the laboratories ventilation system.

Available versions

2-Channel Version; Part#: S-DEG-7520-001
3-Channel Version; Part#: S-DEG-7520-002
4-Channel Version; Part#: S-DEG-7520-003

Special versions with other channel numbers and different lower or bigger internal volumes maybe provided by Postnova as well. Please inquire for possible options.