

SpectraSYSTEM Solvent Degasser

Ensures optimal performance
of your HPLC pumping system

Dissolved gases account for many of the common problems encountered in routine analyses, such as bubble formation, pump cavitation, detector noise, baseline drift, and gradient precision. The Thermo Scientific SpectraSYSTEM™ solvent degasser ensures the optimum performance of your HPLC system by thoroughly removing dissolved gases from the mobile phase.

- More stable baselines, improved accuracy and precision
- Rapid degassing of up to four solvent channels
- Choice of vacuum degassing, helium sparging, or both
- Manual, timed, or programmed operation
- Complete ROHS compliance
- Leak sensor, automatic shutdown, and double-wall containment enhance lab safety
- Optimum sensitivity and selectivity with Thermo Scientific columns

Optimize Analytical Data

Solvent degassing gives you more stable baselines. Dissolved gases (e.g. oxygen) increase both short-term noise and long-term drift. Since outgassing of dissolved gases in the flowcell can cause detector spikes, vacuum degassing is an effective, cost-efficient way of improving the quality of your HPLC data.

The compressibility of dissolved gases creates small volumetric inaccuracies which affect gradient shape and precision. Removal of these gases improves flow accuracy and precision for maximum pump performance.

Rapid Degassing of up to Four Solvent Channels

Thin-wall membrane tubing and high-capacity vacuum chambers permit fast, efficient removal of dissolved gases. For high flowrate applications, like semi-prep scale, a “T” connector is used to combine the output of individual solvent channels.

Match a Degassing Technique to Your Application

We offer customers helium sparging or vacuum degassing, or both. The high-efficiency vacuum degassing system suffices for the vast majority of applications. Choose the technique best suited to your application needs and budget, or choose both for maximum flexibility and performance.

The vacuum degasser is mounted in an attractive and ergonomic vertical package. For helium sparging, you can mount up to a 4-channel SHM helium degassing kit on a vertical rail attached to the degasser box or onto your SpectraSYSTEM pump.



Continuous Operation

The vacuum degasser operates continuously to ensure a stable level of vacuum through a sequence of analyses. This provides reproducible gradient or isocratic run-to-run performance.

Biocompatible Protection for Sensitive Samples

All wetted materials in the degasser are chemically and biologically inert. This ensures maximum corrosion resistance and compatibility with sensitive biomolecules.

Built-in Safety Features

A leak sensor and automatic shutdown enhance lab safety. The leak detection system gives an immediate warning of a leak. A red warning light activates and the safety interlock turns off all power.

Double-wall containment enhances lab safety. In some environments, double-wall containment is required when the chance of a hazardous material leak exists. This unit satisfies all current safety requirements.

Specifications

Method

Vacuum Membrane

Solvent Channels

Four

Solvent Contact Materials

Teflon® AF, TFE and titanium

Volume Per Channel

12 mL

Free Flow Per Channel

5 mL/min H₂O with 2 ft. head pressure

Dimensions

36 × 15 × 55 cm (H × W × D)

Weight

13 kg

Power Requirements

100/120/220/240 VAC nominal; 50 to 60 Hz

Product Certification

TUV CUS
TUV CE Mark
FCC (EMI)

Ordering Information

Part Number	Description
SCM1000-033	Vacuum Degasser 110-240 VAC
SCM1000E-011	SCM1000 Degasser 4L Bottle
A4122-010	Helium Degas Manifold (2)
A4144-010	Helium Degas Manifold (4)
A4125-010	Helium Degas Mounting Bracket
A5765-073	SpectraSYSTEM Accessory Rack

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