

PN7205 UVD

FFF Eluent UV Disinfection Module



PN7205 UVD Module

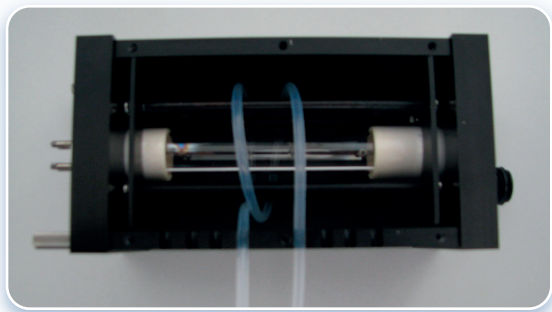
Features

One of the sensitive parameters in Field-Flow Fractionation is the preparation and stabilization of the eluent. Since in principle microorganisms grow in any aqueous media over a longer period of time, this can lead to serious problems.

The PN7205 UV Disinfection Module is designed to solve that problem by providing eluents for constant sterile conditions. It is a unique automatic and continuously working cleaning device for FFF eluents and preserves the sterile condition of any aqueous solvent.

It is well known that most filtered buffers soon become contaminated by airborne or otherwise introduced microorganisms. Aqueous eluents which often become infected by these bacteria, viruses and protozoans will contaminate the complete solvent lines inside the FFF and the system performance will soon become deteriorated.

Fluid lines, check valves, injection seals, membranes and, most importantly, light scattering detectors will eventually become fouled and contaminated by the non-sterile fluid. This then invariably leads to detector noise, a reduced system performance and, in the worst case, system failure which will lead to costly down-time because decontaminating the system with strong solvents is required.



The PN7205 UVD Module runs completely automated and does not need any eluent stirring, which can cause extra artifacts and contamination problems.

Also the light source is completely and safely encapsulated inside the UVD module and can be easily replaced by the user via a side door opening. The user will not be exposed to UV radiation at any time during the use of the system or when changing the eluents.



The UVD can be used for flow rates from 0-10 mL/min and is ideal for any aqueous based eluents which show acceptable UV absorption properties. The only spare part is the UV lamp which needs a replacement after a certain operation time (approx. 8000 hours), depending on use and switching cycles. The status of the UV light source is displayed via LED at the front cover of the UVD module.

The PN7205 UVD system must not be used together with pure organic eluents! For mixtures of aqueous and organic eluents it may be used in certain cases. Please inquire for more details.

Ordering Information

S-UVD-7205-001	UVD Disinfection Module UV
Z-UVD-7205-001	Replacement UV Lamp

Specifications

- Eluent Sterilization:
By UV light source
- Maximum Flow Rate:
10 mL/min for each channel
- Channels:
2 channels for parallel use
More channels on request
- Internal Volume:
approx. 1.5 mL per channel
- UV Lamp:
5 W, 425 mA, 15V@50Hz,
UVC output: 1.2 W; 253,7 nm
UVC @ 1m distance: 10 μ W/cm²
- Lamp Life Time:
8000 hours
- Wetted Materials:
PFA, PEEK, ETFE
- Error Message:
Visually via LED at the front;
mains on/off LED line integrated
outside into the system cover
- Power Requirements:
100 – 240 V @ 50 – 60 Hz
- Dimensions:
(length / width / height)
430 mm x 270 mm x 90 mm
- Weight:
approx. 5 kg

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