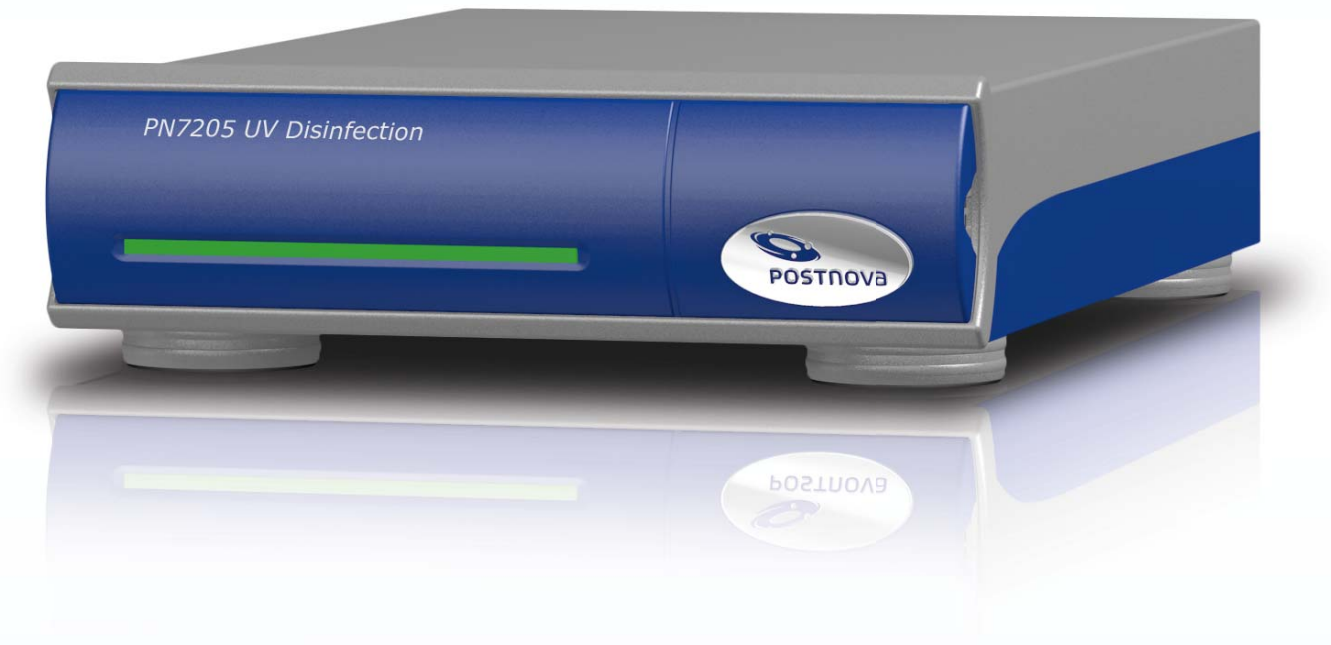
POSTNOVA

PN7205 UVD

FFF Eluent UV Disinfection Module



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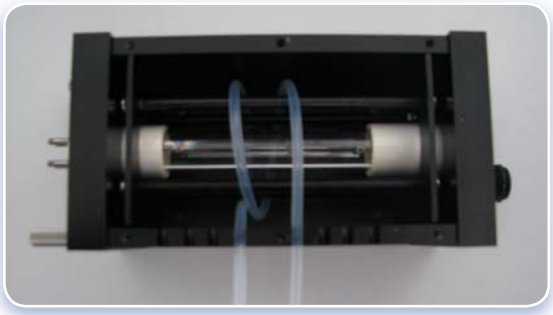
PN7205 UVD Module

Features

One of the sensitive parameters in Field-Flow Fractionation is the preparation and stabilization of the eluent. As in basically any aqueous media microorganisms will grow during a period of time, which can cause 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 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 a reduced system performance, detector noise and in the worst case system failure which will lead to costly wasted 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 any UV radiation at any time while using the system or changing 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 exact 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

Z-UVD-7205-001	Replacement UV Lamp

Please Note
If a FFF system is shut down for a longer time we recommend changing the eluent independent if the UVD has been used or will be used afterwards. The module is working online and thus cannot prevent the growth of microorganisms which are already located inside the system and can continue to grow while the FFF is not in use.

Specifications

- Eluent Sterilization by UV light source
- Flow Rate:
  10 mL/min for each channel
- Channels:
  2 channels for parallel use
  More channels on request
- Dead Volume:
  approx. 250 µL/channel
- UV Lamp:
  5 W, 425 mA, 15V@50Hz,
  UVC Output 1.2W,
  UVC@1m, 10 µW/cm2
- Lamp Life Time:
  8000 hours
- Wetted Parts:
  PTFE, PEEK
- Error Message:
  Visually over LED at the system behind the front cover; main on/off LED line integrated outside into the system cover.
- Power Requirements:
  230/100 V; 50/60 Hz
- Dimensions:
  Width x Height x Length
  285 x 65 x 420 mm
- Weight:
  5 kg

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