CAMAG® HPTLC PRO

Module DERIVATIZATION

Fully automated sample analysis and evaluation system for routine quality control

The HPTLC PRO Module DERIVATIZATION is part of the CAMAG® HPTLC PRO SYSTEM – the first fully automated HPTLC system worldwide.

The HPTLC PRO Module DERIVATIZATION is designed for the fully automatic derivatization of HPTLC glass plates (20 x 10 cm) and combines two steps – high-precision spraying of derivatization reagents and heating of the plate – in a single device. Employing the patented micro-droplet spraying technology, the Module DERIVATIZATION enables maximum homogeneity in applying derivatization reagents. The integrated plate heating unit ensures a uniform heat distribution across the plate.

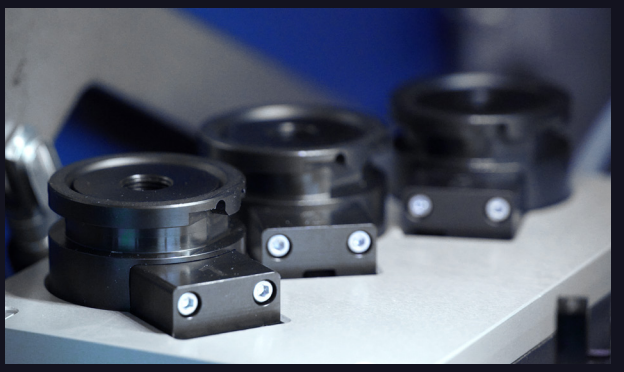
To suit the viscosity of the spraying reagents, four different nozzles are available. Spraying at slightly reduced pressure further improves the spraying process. Equipped with a fully automated nozzle changer and cleaning station, the Module DERIVATIZATION effectively avoids cross-contamination.

KEY FEATURES

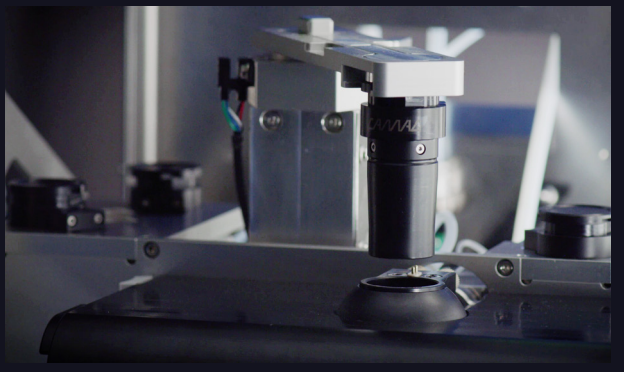
- Part of the fully automated HPTLC PRO SYSTEM
- Nozzle changer for three different nozzles and a cleaning station
- Integrated plate heating unit
- Handling of two different reagents
- HPTLC glass plates (20 x 10 cm)
- Software-controlled by *visionCATS*

KEY BENEFITS

- Spraying and heating in a single device
- Maximum homogeneity in reagent and heat distribution
- Highest user safety through automation and fume hood connection
- Optimal cleaning procedure between nozzle changes
- Low reagent consumption (3 mL)



The Module DERIVATIZATION features three spraying nozzles generating different droplet sizes to suit the properties of the selected reagent.



A sophisticated gripper mechanism inserts the nozzle into the nozzle adapter prior to spraying and moves it afterwards to the integrated cleaning station.

Employing the patented micro-droplet spraying technology, the reagent spraying nozzles generate an extremely fine reagent mist, which evenly distributes in the derivatization chamber and gradually settles down on the plate.

The cleaning station washes the nozzle from the inside and the outside. Meanwhile, the HPTLC plate is moved to the subsequent heating step.

TECHNICAL SPECIFICATIONS

Operating temperature	15 – 30 °C
Recommended working temperature	20 – 25 °C
Plate heating range	up to 140 °C
Plate types	HPTLC glass plates 20 × 10 cm
Operating voltage	100 – 240 VAC; 50 / 60 Hz
Dimensions (W × D × H)	384 × 550 × 510 mm
Weight	~ 35 kg

ORDERING INFORMATION

060.4000	**CAMAG® HPTLC PRO Module DERIVATIZATION** for the fully automated micro-droplet spraying of derivatization reagents onto developed HPTLC plates (20 x 10 cm) and the subsequent heating of the plate up to 140°C to complete the derivatization reaction. Four different nozzles with different spraying properties for use depending on the derivatization reagents. The module is equipped with a nozzle changer and a fully automated nozzle cleaning station. Including two Carriers for HPTLC glass plates (20 x 10 cm) and a set of bottles for start-up.

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