

CAMAG®

HPTLC PRO MODULE DERIVATIZATION



Fully automated derivatization with micro-droplet spraying and plate heating, ensuring consistent, precise, and reproducible derivatization.

IN A NUTSHELL

MICRO-DROPLET SPRAYING AND PLATE HEATING IN A SINGLE DEVICE

The HPTLC PRO **Module DERIVATIZATION** is designed for the fully automatic derivatization of HPTLC glass plates (20 × 10 cm) and uniquely combines two steps in a single device: high-precision spraying of derivatization reagents and heating of the plate.

Using patented micro-droplet spraying technology, the HPTLC PRO Module DERIVATIZATION achieves maximum uniformity in applying derivatization reagents and provides

maximum flexibility through four spraying nozzle types generating different droplet sizes, while the integrated plate heating unit ensures even heat distribution across the plate.

With automated plate handling and minimal operator intervention, the Module DERIVATIZATION enables consistent, efficient workflows, making it the perfect solution for modern analytical labs in pharmaceutical, botanical, food, and environmental sectors.

- ↘ Fully automatic nozzle changer
- ↘ Integrated plate heating unit
- ↘ Handling of two different derivatization reagents
- ↘ HPTLC glass plates (20 × 10 cm)
- ↘ Software-controlled by *visionCATS*

KEY BENEFITS



Spraying and heating in a single device



Highest user safety through automation and fume hood connection



Maximum homogeneity in reagent and heat distribution



Optimal cleaning procedure between nozzle changes



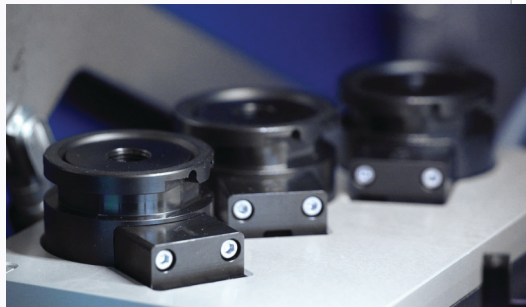
Cost-efficient through low reagent consumption



Stand-alone operation or integration in the HPTLC PRO System

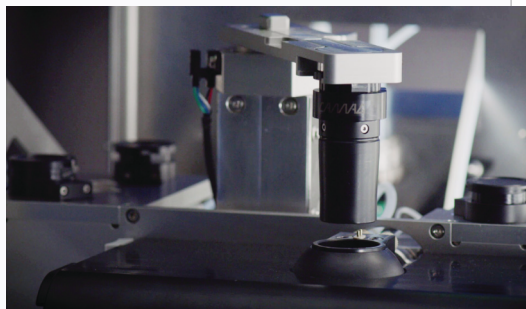
HOW IT WORKS

SMOOTH & PRECISE OPERATION



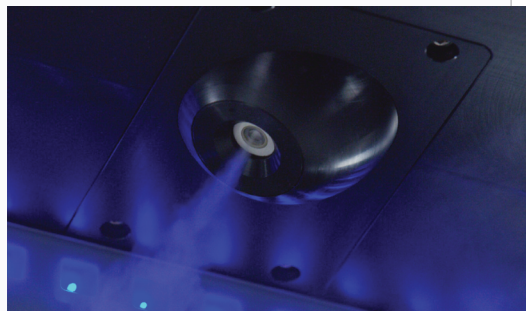
01

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



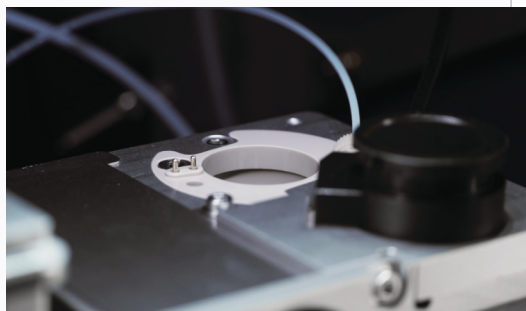
02

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



03

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.



04

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

HPTLC PRO MODULE DERIVATIZATION

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
Power consumption	40 W
Dimensions (W×D×H)	384 × 550 × 510 mm
Weight	~ 35 kg

WHAT YOU NEED TO GET STARTED

ORDERING INFORMATION

060.4000

CAMAG® HPTLC PRO Module DERIVATIZATION

For the fully automated micro-droplet spraying of derivatization reagents onto developed HPTLC plates (20 × 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 2 Carriers for HPTLC glass plates (20 × 10 cm) and a set of bottles for start-up.