SyFi

Syringe Filter Option
Automated syringe filtration



Automatic tool pickup on the PAL RTC.

SAMPLE PREPARATION ON THE PAL RTC

SyFi transfers established laboratory pressure filtration to the PAL RTC from CTC Analytics. The CHROMTECH option automates sample aspiration, syringe filter handling and filtration into the target vial.

FILTERS SELECTED FOR YOUR METHOD

Suitable standard syringe filters can be integrated into the automated workflow. Filter material, diameter and pore size are selected for the sample and method. The suitability of each filter design is assessed for the specific application.

FEATURES AT A GLANCE

- For small sample volumes and low dead volumes
- Typical pore sizes: 5.0 µm to 0.02 µm
- Automatic tool change on the PAL RTC
- Sample preparation for gas and liquid chromatography
- Filter use and tray configuration tailored to the application

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From sample vial to filtrate

An automated workflow with flexible vial handling.

THE FILTRATION WORKFLOW

Aspirate the sample

The PAL RTC draws the unfiltered sample into the syringe.

Pick up the tool

The syringe filter and, where required, a needle are picked up automatically.

Controlled filtration

The syringe pushes the sample through the filter membrane into the target vial.

THREE FILTRATION PATHS

Open vial: Direct filtration into a sample vial on the tray.

Septum-sealed vial: SlotCovers allow filtration through the pierceable seal.

Automatically opened vial: A suitable station can open the vial before filtration and close it afterwards. The configuration is matched to the installation.



Syringe filter and optional needle



Syringe filter in its tray position

CHROMTECH supports filter selection, sample trays and PAL RTC integration. This brochure describes the approved SyFi option; images show example configurations.

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