PrepBase

Automated online filtration and sample injection

The PrepBase enables fully automatic "on-line filtration" including sample preparation and transfer of the sample to the analyzer. We tailor the PrepBase specifically to the requirements of your application.

It then transports the upper filtering part, the filter insert, into the lower part filled with the sample.

The integrated press presses the filter insert into the lower part and simultaneously filters the sample. The filtered supernatant is finally injected into the analysis system.

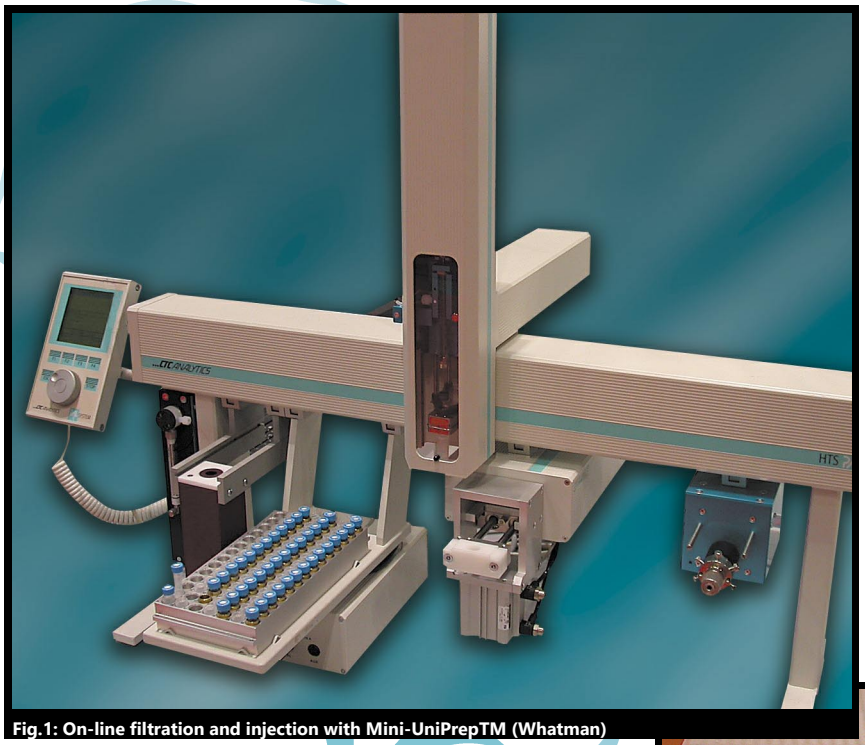


Fig.1: On-line filtration and injection with Mini-UniPrepTM (Whatman)

The main features of the PrepBase system:

All common Vial types

recordings for deep-well and

Microtitre plates available Allows dilution of

Samples and standards extract (SPE, SPME, SPDE) filtration (Whatman Mini-)

UniPrepTM) Shaking or stirring Heating and cooling Vial Transport

In general, the PrepBase system can extract, heat and cool, as well as mix by shaking or stirring. In addition, it can transport vials of different sizes. The device works with all deepwell and microtitre plates. Furthermore, it is possible to



Mini-UniPrepTM

dilute samples and standards with the PrepBase and prepare dilution series.

This application is an example of the integration of Mini-UniPrepTM filters consisting of 2 parts.

First, the machine takes the sample from customized or standardized vessels to fill it into the lower storage vessel of the Mini-UniPrepTM Vial.

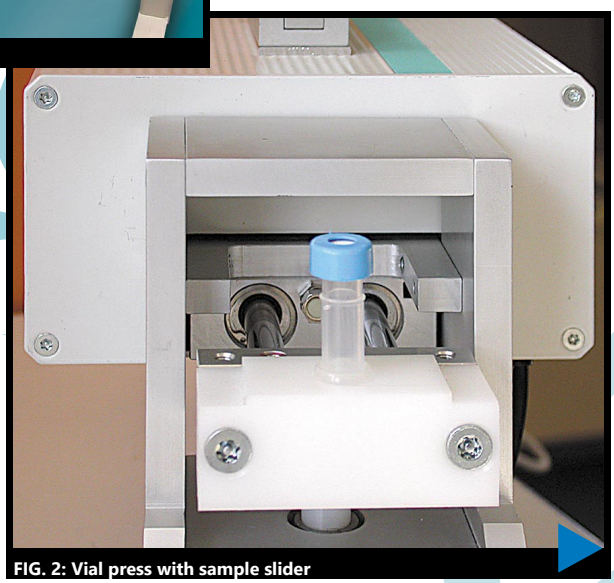


FIG. 2: Vial press with sample slider

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CT-PB ger 2005

PrepBase · On-Line Filtration and sample introduction System

PrepBase · On-Line Filtration and sample introduction System

Order No: CT-PAL Press

Macro-engineering / special applications

• Macro creation and programming • Creation of complex program sequences • Integration of macros in sample preparation, sample processing and sample introduction • Connection to the existing HPLC system

Order No: CT-APP-HTS001

The following PAL systems can be used:

HTS PAL Prep and Load System for High Throughput Screening With PAL80 X/Y Unit

Order No: PAL HTS0

HTS9 PAL Prep and Load System for High Throughput Screening With PAL80 X/Y Unit

Order No.: PAL HTS9

HTC PAL Prep and Load System for High Throughput Screening with PAL50 X/Y Unit

Order No: PAL HTC0

Combi PAL, liquid/headspace version With PAL80 X/Y unit

Order No.: PAL LHS2

Combi PAL, liquid sample application only With PAL80 X/Y unit

Order No: PAL LHS0

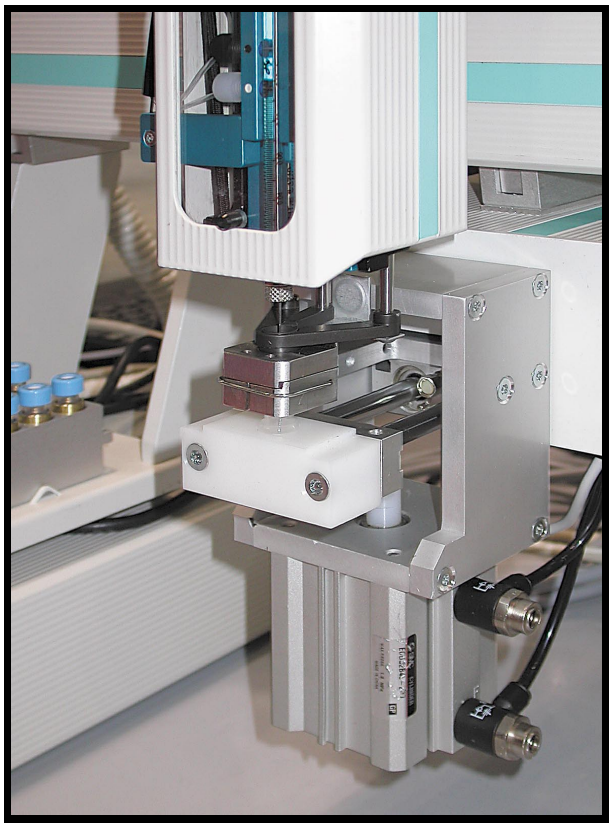


Figure 3: PrepBase system

Literature:
Improve HPLC Sample Preparation in an Analytical Laboratory – A new automated sample preparation process (PB401e)

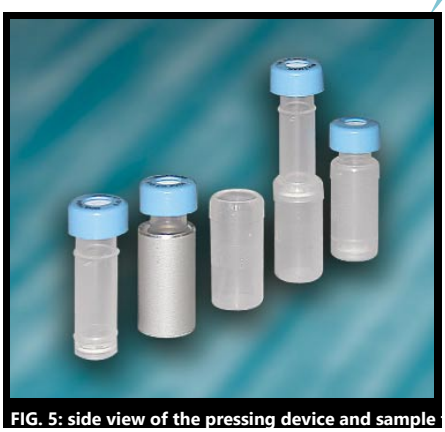


FIG. 5: side view of the pressing device and sample



G. 4: 2-part filtering vials from WhatmanTM

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