

Prep Base

Automated Sample Filtering Made Easy

Together with the CTC PAL autosampler, the PrepBase system provides automated online filtration, including sample preparation, sample transport and injection into your chromatographic system. We specialize in adapting the PrepBase to the requirements of your application.

the sample and injects it into the user's chromatographic system.

Quick Filtration of Samples

Whatman's new Mini-UniPrep™ syringeless filter is a pre-assembled filtration device for removing particulates from small sample volumes.

The Mini-UniPrep consists of a 0.5 mL capacity chamber and a plunger. The plunger contains a filtration membrane at one end and a pre-attached cap/septum at the other.

The plunger is pressed through the sample in the outer chamber, forcing the filtrate into its reservoir.

Through positive pressure, air escapes through the vent hole until the locking ring is engaged, providing a liquid-tight seal.

Essential features:

- ▶ All vial types suitable including custom-made sizes
- ▶ Works with deepwell-, micro-type plates and special formats
- ▶ Dilution of sample and/or standards
- ▶ Prepares dilution series
- ▶ Extractions (SPE, SPME, SPDE)
- ▶ Filtration (Whatman Mini-UniPrep™)
- ▶ Sample shaking or stirring
- ▶ Sample heating and cooling
- ▶ Transports vials

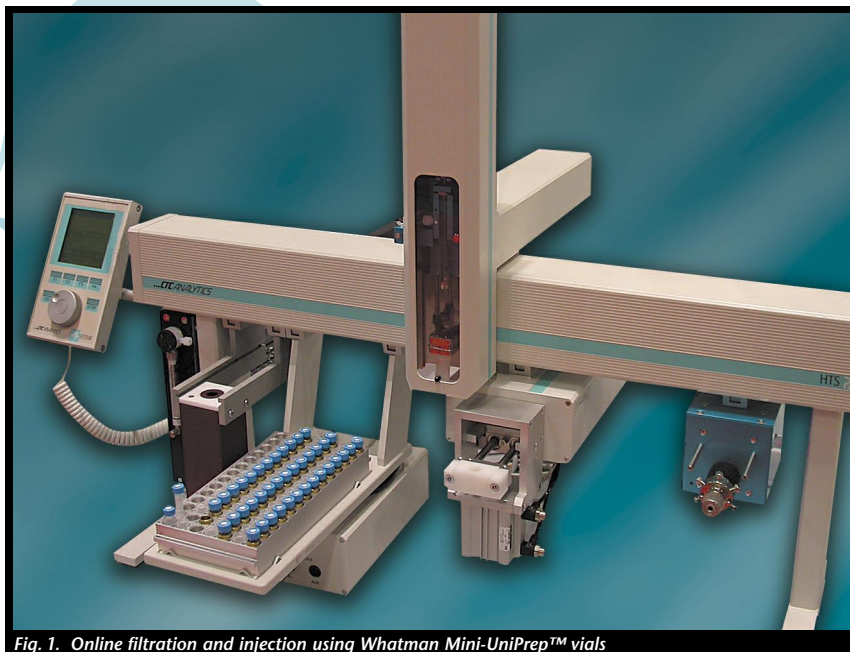


Fig. 1. Online filtration and injection using Whatman Mini-UniPrep™ vials

In general the PrepBase System is designed to extract, heat or cool, and shake or stir samples. Beyond this, it transports standard-sized vials or suitable custom-made ones. The device operates with deepwell and microtype plates. It can be used for diluting samples and preparing dilution series.

How does the PrepBase work?

PrepBase works as follows: Sample is taken from a vial and injected into the sample chamber of the Mini-UniPrep Syringeless Filter. The autosampler's arm then inserts the filter plunger into the opening of the sample chamber. The assembled syringeless filter is then transported into the PrepBase, which presses the filter into the sample chamber, forcing sample through the filter. The autosampler syringe then pierces the septa, picks up



Mini-UniPrep™

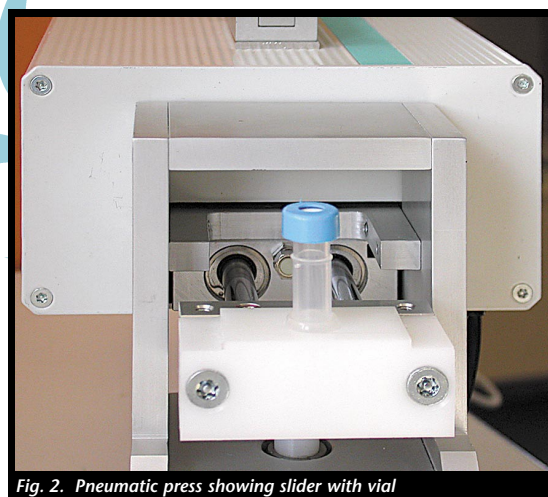


Fig. 2. Pneumatic press showing slider with vial

PrepBase · Online Filtration and Sample Injection System

PrepBase Online Filtration and Sample Injection System

Part Number: CT-PAL Press

Macro-Engineering

- generation of custom macros
- programming of complex links, linking of macros with sample preparation, sample processing and sample injection
- connection to the available LC or LC/MS system

Part Number: CT-APP-HTS001

For use with the following PAL Systems:

HTS PAL Prep and Load System for High Throughput Screening, LC with PAL80 X/Y unit

Part Number: PAL HTS0

HTS9 PAL Prep and Load System for High Throughput Screening, LC with PAL80 X/Y unit

Part Number: PAL HTS9

HTC PAL Prep and Load System for High Throughput Screening, LC with PAL50 X/Y unit

Part Number: PAL HTC0

Combi PAL, Prep and Load System, GC with PAL80 X/Y unit, headspace and liquid injection

Part Number: PAL LHS2

Combi PAL, Prep and Load System, GC with PAL80 X/Y unit, for liquid injection only

Part Number: PAL LHS0



Fig. 3. PrepBase option showing vial transport

Literature:

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



Fig. 4. Whatman Mini-UniPrep™ Vials

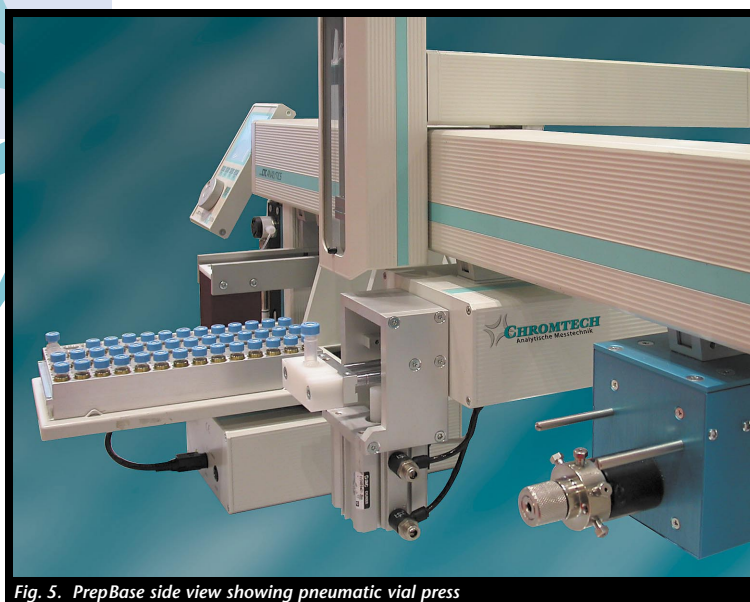


Fig. 5. PrepBase side view showing pneumatic vial press

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