

# Whatman Mini-Uniprep Press



## Sample Filtration

### Application Type

SPECIAL

### Application ID

PALPress

### Description

Sample Filtration with Whatman Mini-Uniprep filter system

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## Overview

Whatman Mini Uniprep syringeless filters offer a convenient way of filtering samples containing particulates prior to introduction on an HPLC system. They come with 2 pore sizes and many different filter media [1]. They are designed for manual operation but are not conducive to large batch sizes - repeated pressing by hand being very fatiguing.

Mini Uniprep consists of a 0.4 ml capacity chamber and a plunger. The plunger contains a filtration membrane at one end and a preattached cap/septum at the other. The plunger is pressed through the sample in the outer chamber and positive pressure forces the filtrate into the reservoir of the plunger. Air escapes through the vent hole until the locking ring is engaged providing an air-tight seal. (see Diagram)

LEAP has developed a "Press" accessory for the PAL which allows samples to be filtered reliably and repeatably. It does not require external pneumatics, but uses the PAL Z motion itself to compress the filter chambers. Samples can be processed in batch mode or "just in time" before direct injection to the LC valve.



For the latest up to date information and more photos and videos please visit:  
<http://www.leapwiki.com>

The PAL offers precise control of the down force on the sample. The user can specify the speed of compression in the method, allowing even very heavy suspensions to be filtered successfully.

The complete system can provide automated online filtration, including sample preparation, sample transport and injection into the chromatographic system.

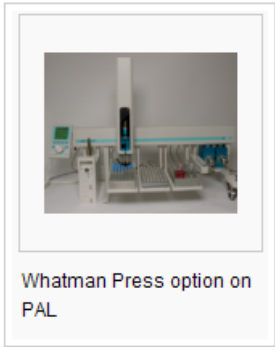
Significant Markets

Any labs who are doing High Performance Liquid Chromatography (HPLC) or more significantly, Ultra High Performance Liquid Chromatography (UHPLC) analysis. It is imperative that particles are eliminated to avoid blockage of HPLC lines and columns. This filtering technique let you prepare samples in one third the time required by other methods. Automation of the filtering step has **NOT** been possible in a reliable fashion till now.

Possible Markets

- Cosmetics
- Food & Beverage
- Pharmaceutical

Photos




More Info

-  [Whatman Uniprep Website](#)
-  [Whatman UniprepSellSheet](#)

Videos

-  [Movie of the Press in action on YouTube](#)
-  [Various PAL's in action on YouTube](#)

Accessories for the PAL

-  [Other Accessories for PAL Robots](#)

LEAP provides automated workstation instrumentation solutions based on the LEAP CTC PAL X, Y, Z syringe only autosampler robot from LEAP Technologies. This extremely flexible, precise, and adaptable liquid handling robotic platform is available in a variety of lengths and options depending on the requirements of your sample preparation and injections for your UHPLC, LC or GC chromatography. LEAP offers full support and service for the PAL platform in addition to being able to write custom macros, cycles, and scheduling to your applications. Please contact LEAP Technologies on how we can help you get maximized throughput with flexible pipetting automation solutions.



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