

# BENCHTOP LAB FILTER

## COMPLETELY EQUIPED FILTRATION SKID

For filterability trials and method development



### Characteristics

This benchtop labfilter is designed for filterability trials and filtration method development. The functional core of this skid is a sheet holder for Ø 60 mm diameter round depth filter sheets.

The comprehensive and robust skid contains a pressure vessel with a funnel for retentate, valves, a gauge, a drip tray and all piping in stainless steel.

### Dimensions

Footprint:	approx. 50 x 30 cm
Height:	approx 65 cm (incl. Funnel)
Sample holder	for Ø 60 mm depth filter sheets
Effective filter diameter	Ø 52 mm
Effective filter area	approx. 21 cm <sup>2</sup>
Volume Pressure Vessel	approx. 1'000 ml

### Technical Specifications

Volume vessel: Max pressure: 6 bar  
 All tubings Ø 1/2", Triclamp connections ODT  
 Connection for compressed air: V-connector 25 KA  
 Manometer 0-6 bar, Safety relief valve: 6 bar  
 High precision micro pressure controller 0-4 bar  
 Ball valves DN 6 with PTFE gaskets  
 Skid mounted with funnel and drip tray

### Material

Material in contact with samples: stainless steel AISI 316 L  
 Inside surface roughness: 0.6 microns  
 Gaskets: EPDM

### Options

This filter is also available with a precoat option: 2 Liter vessel and a 40 mm draff frame option with enough space for a thick filter cake.

### Applications

The filtration work is done by the depth filter sheets, which are available in a variety of porosities, from coarse over fine to germ reducing and -removing filtration («sterile filtration»).

Examples of industries:

Beverage (wine, spirits, juice...), biotech, cosmetics, fine chemicals, ink, paint, process water, pharmaceuticals (e.g. API), solvents ...

### Available 60 mm Filter Disks

The following nominal porosities (retention rates) are available:

Coarse / Fine filtration			Germ-reducing / Sterile filtering		
Type module	Retention rate [µm]	Flow rate [l/m <sup>2</sup> min] Dp=1 bar	Type module	Retention rate [µm]	Flow rate [l/m <sup>2</sup> min] Dp=1 bar
CH 6 P	20	2800 – 3600	CH 101H P	0.6	100 – 120
CH 9 P	10	1500 – 2100	CH ST 110 P	0.5	68 – 80
CH 21H P	6.0	560 – 700	CH ST 130 P	0.4	45 – 56
CH 31H P	5.0	280 – 360	CH ST 140 P	0.2	26 – 34
CH 41H P	4.0	240 – 300	CH ST 150 P	0.04	10 – 16
CH 71H P	1.5	170 – 210			

Other grades and porosities upon request.

### FILTRIX Quality Assurance

FILTRIX assures the best quality control according to international standards:

– ISO 9001 (Quality management)

### Optional Certificates and special documentation

Typically for pharmaceutical or near pharmaceutical applications we provide the following documents on request:

- EU Guideline 89/392/EWG
- Material certificate 2.2 or 3.1 B (only for material in direct contact with the product)
- Surface roughness (< 0.8 µm[Ra])

Your Filtrix dealer:

The information contained in this pamphlet is up-to-date at the time of release. However, each end user is requested to check the suitability of their product(s) with the types of filtration mentioned in this leaflet. Technical modifications are reserved.