



## Filter Press Test Unit 1,2 m<sup>2</sup>

### ➤ For Filter Selection

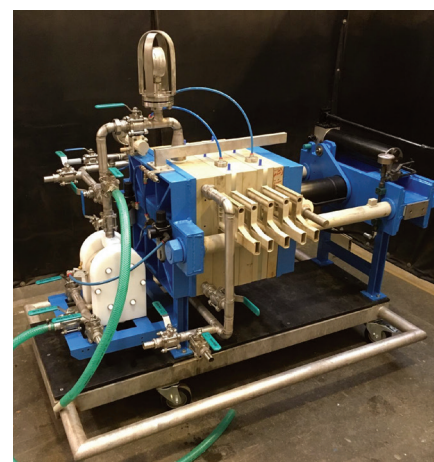
Testing the slurry is essential before choosing the correct filter type and size. In this way, we can ensure the best possible process performance and most cost-efficient solution for each application. Filtration testing can be done on site or in Flowrox filtration laboratory.

### ➤ Optimizing Filtration Process

Typically, filtered slurry or process conditions keep changing over time. Filters are often not running in the most optimal way and process performance drops. To improve the situation, filter parameters need to be reset and performance of auxiliary equipment checked. This small-scale test unit (1,2 m<sup>2</sup>) makes it easier and faster to test the slurry on site, without disturbing the production.

### ➤ Testing gives insight into slurry's filtration characteristics:

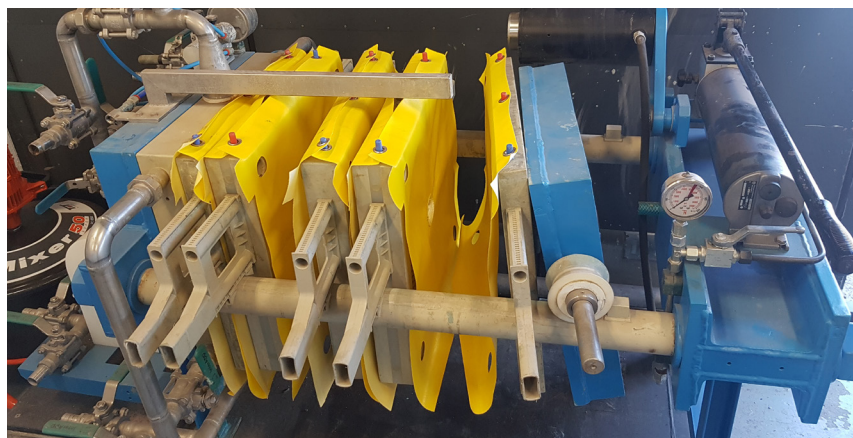
- Filtration capacity, kg DS/m<sup>2</sup>h
- Cake moisture, % w/w
- Cake washing results
- Filter cloth selection
- Filtrate clarity
- Optimal filtration cycle



The small-scale test unit makes it easier & faster to test slurry on site, without disturbing the production.

### Specifications

Filtration area	1,2 m <sup>2</sup> (1 plate 0,3 m <sup>2</sup> )
Chamber depth	30 or 40 mm
Shipping size	140 x 126 x 169 cm (length x width x height)
Shipping weight	760 kg



Filter press test unit simulates the operation of the full-size industrial filter.

### YOUR BENEFITS

Full understanding of the slurry's filtration characteristics



Most suitable filter for the duty



Optimized process performance



# Testing requirements

## Testing facility requirements

Working space: 4 x 4 m

Test unit requires 6 bar air supply

Clean water with hose connection is needed to clean the unit and filter cloths

Drain needed for washing liquids

Slurry feed tank 100 - 200 litres with mixing (also heating if required)

Cakes & filtrate buckets (usually 3 pieces; 2 x 50 litres and 1 x 100 litres capacity)

100 kg scale for measuring filtrate flow

## Required sample

Test sample: 200 liters minimum

Solids content: preferably 40 - 65 % (also lower concentrations can be tested)

## Required analysis

Feed temperature & pH

Feed solids content w/w %

Feed density g/l

Cake moisture: measured by dry weight determination method

Filtrate analysis: 100 ml is tested using filter paper & vacuum bottle

Cake washing analysis: based on specified requirements in certified laboratory

Particle size distribution: should be done for the feed sample

Cake density: based on volume change

## Flowrox Filter Press Cloth Selection

Wide selection of filter cloths enables you to choose the right type of cloth for individual application, minimizing costs and maximizing production.

Flowrox type code	Material	Warp	Weft configuration	Weave pattern	Liters/dm <sup>2</sup> min 200Pa	m <sup>3</sup> /m <sup>2</sup> min 200 Pa	Weight g/m <sup>2</sup>	Thickness mm	Tensile strength Warp N/mm	Tensile strength Weft N/mm
W-FA130	PP	Mono	Multi	7/1 Satin	5	0,5	520	0,7	78	128
W-FA100	PP	Multi	Multi	Plain	6	0,6	500	1	118	47
W-FA150	PP	Mono	Mono	2/14 Satin	10	1	450	0,65	118	39
W-FA200	PP	Multi	Multi	Plain	26	2,6	500	1	118	47
W-FA230	PP	Mono	Multi	7/1 Satin	30	3	520	0,7	78	128
W-FA250	PP	Mono	Mono	2/14 Satin	40	4	450	0,65	118	39
W-FA350	PP	Mono	Mono	2/14 Satin	80	8	450	0,65	118	39



Flowrox Oy  
P.O. Box 338, FI-53101 Lappeenranta  
Finland  
Tel. +358 201 113 311

www.flowrox.com  
info@flowrox.com

