

Tower Press Test Unit 0,01 m²

➤ 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 (0,01 m²) 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/m²h
- Cake moisture, % w/w
- Cake washing results
- Filter cloth selection
- Filtrate clarity
- Optimal filtration cycle



The entire test units fits into one briefcase, making it easier and faster to test the slurry on site.

Specifications

Filtration area	0.01 m ²
Filter plate	1 plate with 0.01 m ² surface
Shipping size	56.0 x 45.5 x 26.5 cm (length x width x height) 2 pcs
Shipping weight	1 pc 23 kg and 1 pc 26 kg
Chamber depth	45 or 60 mm



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: 1 x 2,5 m table space
- Test unit requires 6 bar air supply
- Clean water is needed to clean the unit and filter cloths
- Drain needed for liquids
- Slurry feed tank 20 litres with mixing (also heating if required)
- Cakes & filtrate buckets (usually 3 pieces of 10-20 litres capacity will do)
- 10 kg scale for measuring filtrate flow

Required sample

- Test sample: 20-30 liters
- 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
- Particle size distribution: should be done for the feed sample
- Cake density: based on volume change

Flowrox Tower 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	m ³ /m ² min 200 Pa	g/m ²	kN/m lengthwise	mm
W-TA115	PP	0,3	1100	370	1,8
W-TA117	PP	1,0	1100	370	1,8
W-TA220	PP	2,6	1100	370	1,8
W-TA221	PP	5	1100	360	1,8
W-TA223	PP	5	1100	350	1,8
W-TA300	PP	6	1000	350	1,8
W-TA301	PP/PET	7	1100	350	1,8
W-TA302	PP/PET	10	1100	350	1,8
W-TA410	PP/PET	16	1100	350	1,8



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