

## Tower Press Test Unit 0,1 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 (0,1 m<sup>2</sup>) makes it easy and fast 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



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

### Specifications

Filtration area	0,1 m <sup>2</sup>
Chamber depth	45 or 60 mm
Shipping size	190 x 84 x 199 cm (length x width x height)
Shipping weight	607 kg



Flowrox filtration specialists know how to optimize your filtration process.

### 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 & 230 V power
Clean water with hose connection is needed to clean the unit and filter cloths
Drain needed for washing liquids
Cakes & filtrate buckets (usually 3 pieces; 2 x 50 litres and 1 x 100 litres capacity)
100 kg scale for measuring filtrate flow
Heater for the slurry (if needed)

## Required sample

Test sample: 100 liters
Solids content: 40-65 % preferred (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: run 100 ml of filtrate through filter paper using vacuum
Cake washing analysis: based on specified requirements in certified laboratory
Particle size distribution: with sieve or laser/blue light unit
Cake density: based on volume change

## Flowrox Filter Cloths for Tower Presses

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

### Flowrox Light-Duty

Cloth Type	m <sup>3</sup> /m <sup>2</sup> min 200Pa	g/ m <sup>2</sup>	mm	Tensile strength kN/m length- wise
W-TA117L	1,4	990	1,7	340
W-TA220L	3,0	940	1,6	350
W-TA221L	7,0	960	1,7	340
W-TA301L	19	960	1,7	310
W-TA410L	25	1000	1,7	310

### Flowrox Standard

Cloth Type	m <sup>3</sup> /m <sup>2</sup> min 200Pa	g/ m <sup>2</sup>	mm	Tensile strength kN/m length- wise
W-TA115	0,2	1100	1,8	370
W-TA117	1,0	1100	1,8	370
W-TA220	2,6	1100	1,8	370
W-TA221	5	1100	1,8	350
W-TA223	5	1100	1,8	350
W-TA300	6	1000	1,8	350
W-TA301	7	1100	1,8	340
W-TA302	10	1100	1,8	340
W-TA410	16	1100	1,8	340

### Flowrox Heavy-Duty

Cloth Type	m <sup>3</sup> /m <sup>2</sup> min 200Pa	g/ m <sup>2</sup>	mm	Tensile strength kN/m length- wise
W-TA221H	4	1200	2,05	440
W-TA301H	12	1200	2,05	430
W-TA410H	14	1200	2,05	400



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