
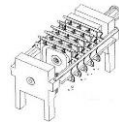






		VOLUTE Dewatering Press	Filter Press [Semi Automatic]
Overall Image			
Model		FS-202 Capacity: 24kg-DS/h~	Capacity: 1000 L/bath
Type of operation		Continuous	Batch operation * based on 2 batch/per day
Detail / Operation Premise		FS-202 [24 kg-DS/hr] x 16.7 hours operation = Approx. 400 kg-DS/day	1000 L/batch x 20 % solid content x 2 batch = 400 kg-DS/day * 1 batch = 10 hours
Dewatering Performance (sludge cake solids content) * Activated sludge dewatering		15 - 20 %	15 - 20 %
Footprint		Very Small Approx. 2900 x 1200 x 1600 mm (Including a control panel and a flocculation tank)	Big Approx. 3000 x 1500 x 2000 mm (Excluding a control panel and a flocculation tank)
Oily Sludge		Possible	Difficult
Sludge Removal / Discharge	Type	Automatic	Manual
	Picture/image		
Washing Water	Type	Automatic	Manual
	Picture/image		
	Purpose of washing	*Washing water is used only to washing out the surface	* Washing water is used to removed sludge clogging on the filtrated area
	High Pressure Water / Pump	Not required (0.1 ~0.2 mPa [1.0 bar, 14.5 psi])	Required (i.e. 8.0 mPa [80 bar, 1160 psi])
Initial Cost		Please ASK!	Cheep
Power Consumption		1.00 kW USD 1,152/year	6.50 kW USD 3,036/year
Water Consumption		0.064 m3/h USD 1,029/year	2.00 m3/batch USD 3,852/year
Total Consumption		USD 2,182/year	USD 6,888/year *5
		USD 4,363/2 years	USD 13,776/2 years
		USD 6,545/3 years	USD 20,664/3 years

<Note>

*1.1 Power Price: USD 0.23/kWh

*1.2 Water Price: USD 3.21/m3

*2 Operation cycle of dewatering equipment used for the above calculation is 2 batch/day (VOLUTE Dewatering Press: 16.7 hours/day), 6 days/week, 50 weeks/year, supposed to be same c

*3 Above data is an example based on a specific operational condition. Please understand that it varies depending on target sludge and operational condition.

*4 Filter press has no squeezing structure.

*5 Operation principal of Filter Press [Semi automatic]

About 8.0 hours of 1 batch (10 hours) is operation time of Oil hydraulic system and Sludge Feed Pump Operation (compressor for Air Pump, total consumption - 1.50 kW)

About 2.0 hours of 1 batch (10 hours) is time for miscellaneous work (e.g. Removing the dewatered sludge cake from filter cloth and washing the filter cloth - 5.00 kW)

Sludge feed pump size is included into calculation for filter press because pump has main function of squeezing.

*Prices are based on January 6th, 2020