

# BAG FILTERING SYSTEM

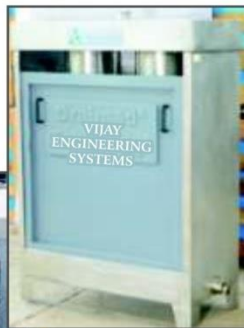


## Bag Filtering :

The sludge dewatering system uses disposable \reusable bags , the special filtering bag made from water repellent material is mounted on stainless steel frame designed to give even sludge distribution this system is modular and optimizes the dewatering cycle .

## Salient features :

- Low Operation and Maintenance costs.
- No direct contact with the sludge - good in terms of EHS.
- No spillage of sludge - Clean surrounding.
- Reusable special filter bags.
- Low foundation / installation cost.
- Minimal man power requirement.
- Capable of handling sludge up to 20m3/day.
- Separation efficiency > 95%.



Model	01 BAG	02 BAG	03 BAG	06 BAG	MOC
CAPACITY	1M3/DAY	6M3/DAY	10M3/DAY	20M3/DAY	SS304/316

## Bag Filtering Capacity Table

Sludge Flow. m3/day	6	10	20
Sludge Quantity kg/day	60	100	200
Dry solids content in sludge	1%	1%	1%
No. of operations per day	2	3	3
TEKNOBAG DRAIMAD Model	02 BAG	03 BAG	06 BAG
Optional Bag Filter Model with No. of operations per day	-	-	-
No. of uses of bag	6	6	6

## Applications :

- Textile Industry
- Chemical Industry
- Pharmaceutical Industry
- Fertilizers and Pesticide Industry
- Food Processing

# PERFORATION SCREEN



The screen is an integrated machine consisting of perforated screen, a spiral and a geared motor unit. This screen has been specifically designed for fine screening application for waste water treatment plant. During operation after a coarse screen fine solids in the incoming flow will progressively collected onto the screen mesh fine solids in the incoming flow will progressively collect onto the channel or tank. The captured fine solids on the screen mesh will be cleaned with the help of the brushes fixed to the periphery of the spiral in the screen mesh zone will clean the screen mesh and convert the solids up to the outlet. Moc:304&316

## Salient features :

- Easy collection of the solid material in bin or a bag.
- Low installed power. Easy to install.
- Suitable for pipe flange mounting as well as channel installation.
- Less space requirement for installation.
- Negligible maintenance cost. Very low investment cost.
- Openings available in 2 mm 3mm, & 5 mm perforated / punch holes
- High solid capture efficiency

Model	Open size \flow rate			Power Connected (kW)	Weight (kg)	Suspended solids in feed	MOC
	2mm	3mm	5mm				
PS1	10	14	20	0.37 kw	60 kg	>1000 ppm	SS:304 SS316
PS2	27	37	52	0.55 kw	125 kg	>1000 ppm	SS:304 SS316
PS3	37	47	72	0.75 kw	105 kg	>1000 ppm	SS:304 SS316
PS4	47	62	97	1.1 kw	230 kg	>1000 ppm	SS:304 SS316

## Applications :

- Textile Industry
- Chemical Industry
- Slaughter house Industries
- Pharmaceutical Industry
- Fertilizers and Pesticide Industry
- Food Processing
- Fine Screen Application in primary screening for STP & ETP

# BELT PRESS



The belt press is a completely novel design, different from any other traditional belt press on the market. The unit is a compact combination of two distinct and integrated units. A pre thickener and a belt filter press system. The pre-thickener rotary drum with Archimedean screws inside, mounted on the top of the unit, performs the initial solid/liquid separation, with a significant reduction of the hydraulic load fed the belt press. This important separation allows the unit to handle sludge having very low suspended solids concentration of the sludge it is possible to reach dry solids concentration of 18%30%.

## Salient features :

- The belt used is endless type (no joining zippers or clips, which are the typical critical point of most belt filter presses) .
- Belt press units are supplied complete with washing pump and control panel mounted on the unit and with a full set of safety and water containment covers.
- Less no of rollers as compared to other belt filter press
- Low power requirement, Low maintenance. Low operating cost ,Low maintenance

Model	BPVES 06 S4	BPVES 08 S4	BPVES 12 S4	BPVES 12 S6	BPVES 15 S4	BPVES 15 S6	BPVES 20 S6
BELT WIDTH (MM)	600	800	1200	1200	1500	1500	2000
MAX FLOW (M3/HR)	1-4	2-8	3-12	5-15	5-20	7-30	10-40
BELT PRESS KW	0.62	0.62	0.95	1.1	1.3	1.7	1.9
WASHING PUMP	2.2	2.2	2.2	2.2	3	3	3.7

## Applications :

- Textile Industry
- Chemical Industry
- Pharmaceutical Industry
- Fertilizers and Pesticide Industry
- Food Processing



# ROTARY BRUSH SEPARATOR



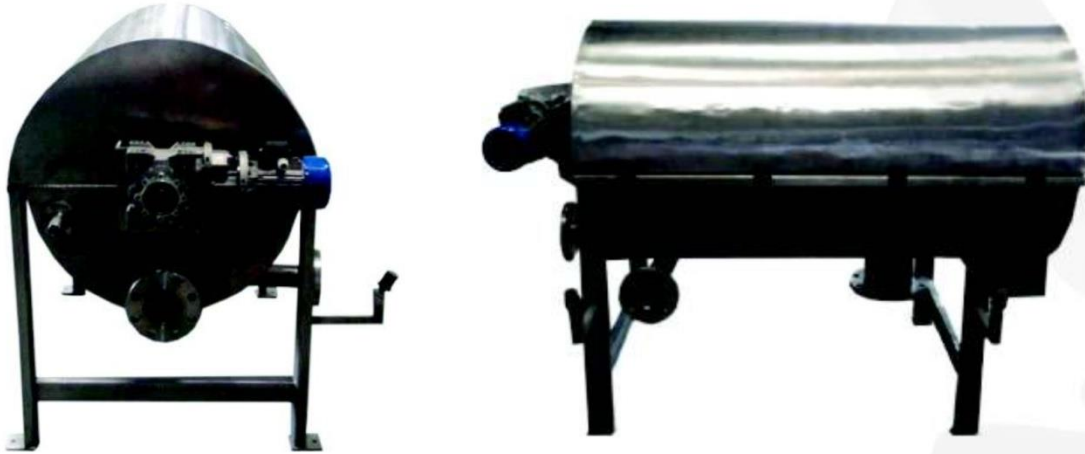
The rotary brush separator is a fine screen with cleaning rotary brush for gravity feed & pump feeding application purpose.

## Salient features :

- Perforated semicircular screening element type
- 03 in nos rotating arm with cleaning brush
- Suitable for channel/tank installation
- Moc :CS /SS 304 & SS 316
- Hole opening:  $\text{Ø}2$ ,  $\text{Ø}3$  ,and  $\text{Ø}5$ mm.
- Low maintenance, Low operating cost
- Low maintenance , Low speed machine
- Suitable for MBR

Model	Flow rate m <sup>3</sup> /hr Hole Opening			Power	MOC
	Ø2mm	Ø3mm	Ø5mm		
RBS 500	50	75	100	0.37 kw	SS 304 & 316
RBS 1000	100	150	200	0.75 kw	SS 304 & 316
RBS 1500	150	225	300	0.75 kw	SS 304 & 316
RBS 2000	200	300	400	1.1 kw	SS 304 & 316

# ROTARY DRUM SCREEN



The internally feeding system is fine screen consist of a tank and a spiral connected to the drum for conveying of screening material. The screen is compose of perorated plate whole diameter is as big as the desired opening size. The drum is supported by suitable shaft and is operated by geared motor.

## Salient features :

- Perforated circular screening element
- 01 in no's fixed cleaning brush for external cleaning arrangement
- Backwashing Washing header with nozzle for external cleaning provided.
- Suitable for channel/tank installation.
- Continuous operation
- Moc :CS+SS /SS 304 & SS 316
- Hole opening:Ø2, Ø3,and Ø5mm.
- Suitable for line MBR

Model	Flow rate m3/hr Hole Opening			Power KW	MOC
	Ø2mm	Ø3mm	Ø5mm		
RDS 500 x 1000	30	45	60	0.37 kw	SS 304 & 316
RDS 640 x 2000	45	60	75	0.55 kw	SS 304 & 316

# FLOCCULATOR



To get good performance from sludge dewatering machine the sludge has to be condition with suitable flocculent .it has been found that a slow agitated tank with a residence time of upto 2-3 minutes is normally sufficient to do a good job of flocculation .after the mixing of sludge and poly electrolyte strong large size flocks will be obtained which are fed to the dewatering machine.

### Salient features :

- Low maintenance, Low operating cost
- Low speed Continuous operation
- Moc :SS 304 & SS 316.
- Available in rectangle and cylindrical shape
- Precise control of the poly dilution process
- Reduction in wastage of polyelectrolyte and water
- Ease and comfortable in operation.
- Minimal operation interference

Model	Capacity (L/HR)	Power KW	SLUDGE THROUGHPUT (m3/HR)	MOC
VES 30 FLC	30	0.18	1	SS 304 & 316
VES 70 FLC	70	0.18	1	SS 304 & 316
VES 100 FLC	100	0.18	2	SS 304 & 316
VES 150 FLC	150	0.18	3	SS 304 & 316
VES 200 FLC	200	0.18	5	SS 304 & 316
VES 400 FLC	400	0.37	10	SS 304 & 316
VES 500 FLC	500	0.37	12	SS 304 & 316
VES 700 FLC	700	0.55	15	SS 304 & 316
VES 800 FLC	800	0.75	20	SS 304 & 316
VES 1200 FLC	1200	0.75	30	SS 304 & 316



## AUTOMATIC POLYSOLUTION UNIT



This is a completely automatic unit for powder polyelectrolyte .all the metallic parts in ANSI 304 Stainless steel. Polyelectrolyte from feed hopper passes through a lump breaker and via screw conveyor microdoser to a predilution unit where it is mixed with a controlled volume of water and enter a dilution tank equipped with 45°three blade mechanically mixer.then it passes through a dispersion tank which is also mechanically mixed and finally to an ageing/storage tank . The polyelectrolyte solution withdrawn from this tank by a dosing pump (optional). When the contents in the ageing/storage tank full to a present level, the water and polyelectrolyte feed are automatic restarted and are stopped when the tank is full. Sensor are provided for automatic operation and dosing pump protection.

Model	Capacity (Ltr/HR)	Power KW	MOC
APU 700	700	0.54	SS 304 & 316
APU1500	1500	0.54	SS 304 & 316
APU 2000	2000	0.54	SS 304 & 316
APU 3000	3000	0.73	SS 304 & 316
APU 6000	6000	0.73	SS 304 & 316



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