

Sludge De - Watering Machine With Multi Disk Screw Press



PRODUCTS DETAILS

Twin Lobe Rotary Air Blowers | Compressors
Tri Lobe Rotary Air Blowers | Compressors
Twin Lobe Rotary Gas Blowers | Compressors
Twin Lobe Aquaculture Blowers | Compressors
Acoustic Hoods | Enclosures
Twin Lobe Vacuum | Blowers | Compressors
Ring Blowers | Turbine Blower
Screw Press | Sludge De- Watering Machine
Mechanical Vacuum Booster
Dry Screw Vacuum Pump
Rotary Vane Vacuum Pump
Water Ring Vacuum Pump
Reciprocating Piston Vacuum Pump

BRAND OF A1 BLOWERS

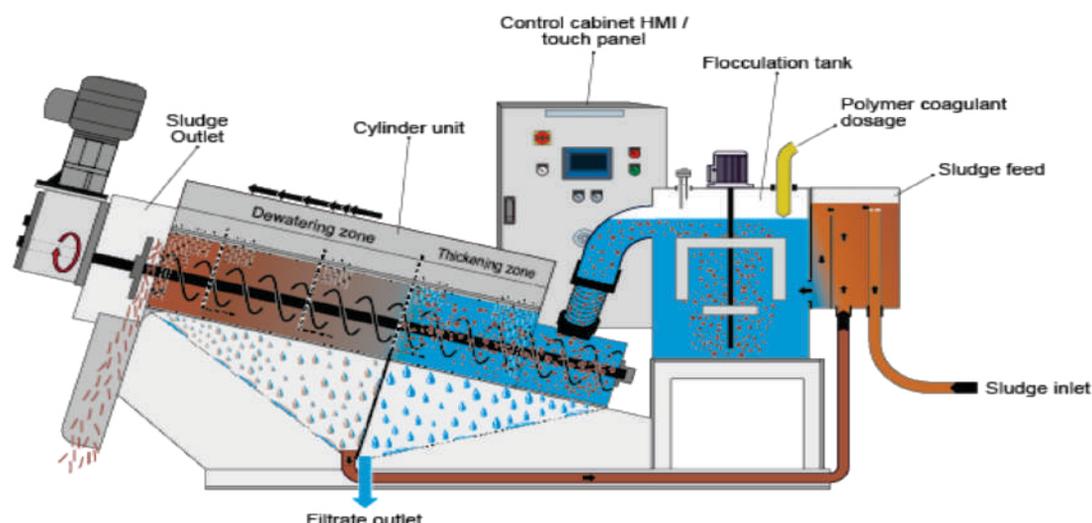
Sludge De- Watering Machine

A1 BLOWERS leading manufacturer of Roots Blowers, Now we are introduces our new product **Sludge De- Watering Machine Multi Disk Screw Press.**

Multi-disc Screw Press Sludge Dewatering Machine, it's clog-free and can reduce the sedimentation tank and sludge thickening tank, saving the cost of sewage plant construction. Using screw and the moving rings to clean itself as clog-free structure, and controlled by the PLC automatically, it's a new technology that can replace the traditional filter press, centrifuges, belt press and frame press, the screw speed is very low, so it cost low power and water consumption in contrast to the centrifuge, it is a cutting edge sludge dewatering machine.

SALIENT FEATURES

- Extremely Low energy consumption.
- No requirement of Thickener or drying beds.
- Clog-Free & small foot print.
- Fully automatic control.
- High resistance to oily sludge.
- Lesser Manpower requirement.
- Very Low water requirement for washing.
- Less Noise, less odour.



Sludge De- Watering Machine Multi Disk Screw Press

A1 DEWTING
SCREW PRESS



**Sludge De- Watering
Machine**

Features

- Flow Control Tank :- Feeds a fixed amount of sludge to the flocculation tank whilst the excess sludge returns to the storage tank.
- Flocculation Tank :- A Polymer is mixed with the sludge to form flocks suitable for the Volute.
- Thickening Zone in cylinder unit :- The sludge enters the thickening zone, and the initial filtrate is discharged whilst the thickened sludge is pushed towards the dewatering zone by the screw.
- Dewatering Zone :- In the section the gape between the rings and the screw pitch decrease gradually in the direction of the end plate, whilst the pressure of the filter element increases due to the volume compression effect, which thickens and dewateres the sludge.
- End Plate :- The end plate creates further pressure from the outlet side so that the sludge becomes drier, resulting in an up to 35% solid sludge cake which is released from the sludge cake outlet.

(AVAILABLE MODELS)

Model	Dry Sludge (Kg/hr)	Inlet Flow @1% Conc.	Electrical Load (KW)	Dimension in MM			Rinsing Water (L/hr)
				L	W	H	
A1-DWM 0.5	2-5 kg/hr	0.5 m3/hr	0.36	1500	710	950	30
A1-DWM 1.0	5-10 kg/hr	1.0 m3/hr	0.36	1900	700	1000	40
A1-DWM 1.5	10-15 kg/hr	1.5 m3/hr	0.36	2100	800	1000	50
A1-DWM 2.0	15-20 kg/hr	2.0 m3/hr	0.54	2300	900	1250	60
A1-DWM 3.0	20-30 kg/hr	3.0 m3/hr	0.55	3000	900	1200	80
A1-DWM 4.0	30-40 kg/hr	4.0 m3/hr	0.55	3050	900	1300	100
A1-DWM 6.0	40-60 kg/hr	6.0 m3/hr	0.92	3100	950	1600	150
A1-DWM 10	70-100 kg/hr	10.0 m3/hr	1.25	3200	1000	1650	200
A1-DWM 15	120-150 kg/hr	15.0 m3/hr	1.30	3400	1100	1650	250
A1-DWM 20	160-200 kg/hr	20.0 m3/hr	1.47	4100	1100	2200	300
A1-DWM 25	200-250 kg/hr	25.0 m3/hr	1.87	4100	1100	2200	350
A1-DWM 30	250-300 kg/hr	30.0 m3/hr	2.75	4000	1500	2130	450
A1-DWM 40	300-400 kg/hr	40.0 m3/hr	2.95	4300	1500	2200	600
A1-DWM 50	410-500 kg/hr	50.0 m3/hr	3.75	4400	1500	2200	700

 **Due to continuous Research & Development specifications may change without any notice.**

About Screw Press:

Sludge water is a product of mechanical, biological and chemical treatment of wastewater in wastewater treatment plants, food and chemical industries and other sectors of human activity. Our dewatering screw press is used to thicken sludge water to 20% dry-matter content. In terms of quality, this equipment surpasses traditional sedimentation sludge removal and other dewatering technologies.

This dewatering/thickening screw press has been designed to be used primarily in wastewater treatment plants, but can also be used for thickening both industrial water and wastewater in food processing operations.

If a dewatering press is already incorporated into the new WWTP design, costs related to the construction of sedimentation tanks are eliminated as this equipment can also be used for thickening secondary sludge directly from activation.

APPLICATIONS

A1 DEWTING
SCREW PRESSES

- Domestic & Munciple STP
- Food & Beverages
- Slaughter Breeding
- Printing & Dyeing
- Chemical Industries
- Oil Industries
- paper & Pulp
- Petrochemical Etc.



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MICRO, SMALL & MEDIUM ENTERPRISES



A1 Blowers
Blowers & Vacuum Boosters

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