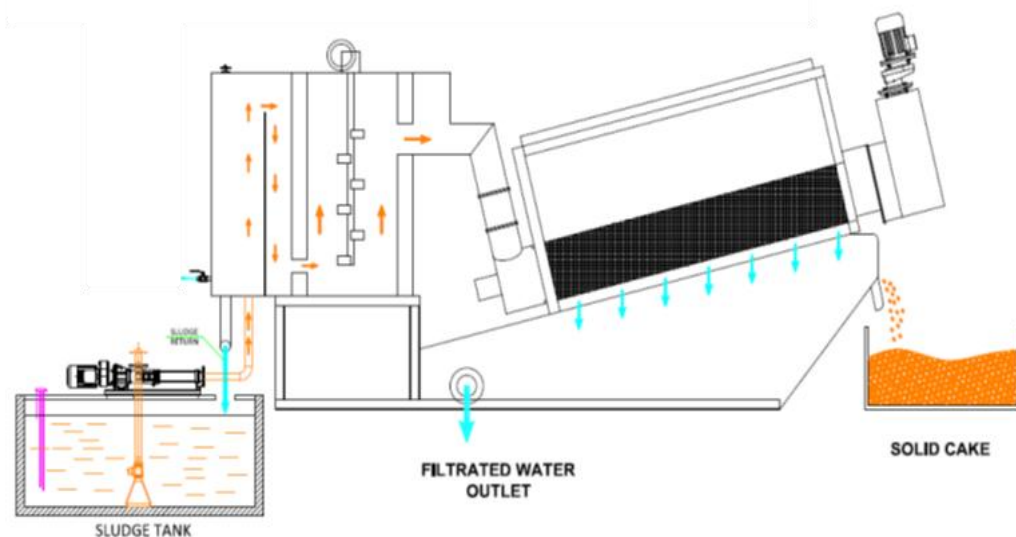


PRESS FOR SLUDGE DEHYDRATION



General information

The Super Press is an excellent solution for dewatering and thickening sludge in both municipal and industrial wastewater treatment plants. Ease of use and low operating and maintenance costs are the strengths of this machine. Treating sludge using the Super Press allows for significant savings in transportation and disposal costs. Depending on the chemical, physical, and biological characteristics of the sludge being treated, dry matter content of up to 22% can be achieved.

The Super press is supplied with all the equipment necessary for commissioning, single-screw electric pump for sludge feeding, polyelectrolyte preparation station, poly dosing pumps, and any augers or belts for transporting the dehydrated sludge.

The main body of the machine consists of one or more screw conveyors inside a series of moving discs that separate the sludge from the water. All parts are made entirely of AISI 304 stainless steel.

The sludge is pumped into the flocculation tank located at the beginning of each pressing screw and is advanced by the movement of the worm screw; the movement of the discs is essential for dehydrating the sludge.



ADVANTAGES

- Extremely high energy savings.

The auger rotates very slowly, 3 – 4 revolutions per minute, so electricity consumption is very low.

The disc press prevents clogging of the meshes with appropriate automatic washing with water at 2-3 bar for 15 seconds every 20 minutes, with consumption of 40 – 60 – 80 lt/ha depending on the potential of the press.

- Considering the low number of revolutions of the auger, the machine can operate 24 hours a day.
- The machine is simple to operate and therefore does not require specialized labor.
- Minimal noise and vibrations
- Small size

Technical Specifications:

Courses:

Model	SS Sludge Treatment Capacity Kg/h	Sludge treatment at 2% m3 / h	Sludge treatment at 3% m3 / h	Sludge treatment at 4% m3 / h	Sludge treatment at 5% m3 / h
Super 200 - 1	15 – 20	~ 0.75	~ 0.60	~ 0.50	~ 0.40
Super 200 - 2	30 – 40	~ 1.50	~ 1.20	~ 1.00	~ 0.80
Super 300 - 1	50 – 70	~ 2.50	~ 2.00	~ 1.50	~ 1.40
Super 300 - 2	100 – 140	~ 5.00	~ 4.00	~ 3.00	~ 2.80
Super 350 - 1	100 – 120	~ 5.00	~ 4.00	~ 3.00	~ 2.40
Super 350 - 2	200 – 240	~ 10.00	~ 8.00	~ 6.00	~ 4.80
Super 400 - 1	130 – 160	~ 6.50	~ 5.00	~ 4.00	~ 3.20
Super 400 - 2	260 – 320	~ 13.00	~ 10.00	~ 8.00	~ 6.40

Data:

Model	Length mm	Width mm	Height mm	Weight in operation Kg	Total installed power KW	Washing water l/h (2 – 3 bar)
Super 200 - 1	2500	900	1300	~ 550	0.60	35
Super 200 - 2	2550	1050	1300	~ 670	1.40	70
Super 300 - 1	3300	1000	1750	~ 1300	1.40	40
Super 300 - 2	3500	1300	1750	~ 2000	2.30	80
Super 350 - 1	4000	1100	2100	~ 2000	2.05	60
Super 350 - 2	4400	1600	2100	~ 3300	3.50	120
Super 400 - 1	4700	1100	2100	~ 4200	2.75	80
Super 400 - 2	5000	1700	2100	~ 6000	4.50	160

The Super disc PRESS is made entirely of stainless steel.

It is complete with double flocculation tank, mixer level sensor and electrical panel.

AUTOMATIC POLY PREPARER

This system automatically dilutes and doses liquid or powdered flocculant polyelectrolyte. It dissolves the polyelectrolyte at the desired concentration, and the dosage can be customized based on the quantity and quality of the sludge being treated. The liquid polyelectrolyte is dosed into a first section of the dilution tank, where it is diluted with water using an electric mixer that promotes dissolution.

Automatic POLYPREPARATOR for preparing diluted poly.

It is composed of:

n. 1 PVC tank from 200 to 1000 liters or in stainless steel from 400 to 2000 liters

n. 1 Stirrer Kw 0.25 - 0.50

n. 1 Water inlet with solenoid valve

n. 1 Level probe

Single-screw electric pump for concentrated poly for feeding polypreparator.

Single-screw electric pump or similar for dosing diluted Poly into the flocculation tank of the disc press.

