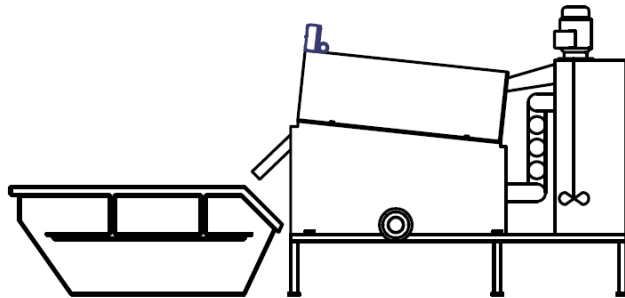
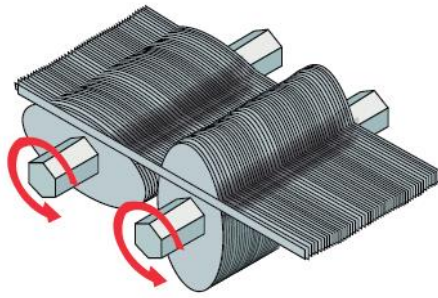


Data Sheet: ClearFox® Sludge Thickener - Dewatering Unit

www.clearfox.com



Description:

The clearfox® sludge treatment system consists of a thickener and a solid-liquid separator. Oval rotating plates transport the sludge forward. Between the rotating plates a grit (gap size 1 mm) is assembled. The fluid phase passes the grid, sludge and solids are transported further on, compressed by a press plate and finally dewatered by an air cylinder which puts pressure on it. A static mixing device ensures a steady delivery of polymers. A sludge storage tank put beneath the thickener receives the separated dry solids. Furthermore a self-cleaning process included. Due to the slits opposite the continuous rotation and the oval shape of the plates a waving transport and consequently a self-cleaning effect occurs. As a result clogging is avoided and flushing is not necessary. The treatment process is stable, there is no reduction in capacity.

Technical Specifications:

Module	ST 411D	ST 611D	ST 811D
dried sludge capacity	40-60 kg/h	60-80 kg/h	80-120 kg/h
volume of storage tank	up to 200 L	300 L	500 L
oval disk column number	11	11	11
gap size	1 mm	1 mm	1 mm
equipment length	2800 mm	2900 mm	3000 mm
equipment width	1200 mm	1400 mm	1650 mm
equipment height (plus storage)	1600 mm	1600 mm	1600 mm
net weight	670 kg	720 kg	980 kg
power (thickener + mixing)	0,4 + 0,25 kW	0,4 + 0,25 kW	0,4 + 0,25 kW

Materials:

frame and body	stainless steel 304
oval discs	stainless steel 304/ tungsten carbide coating
grids	stainless steel 304
collection tank	stainless steel 304
connection tubes	PVC
cables	standard

Application:

The rotating disk thickener and dewatering unit can be widely applied to municipal sludge (such as primary, secondary and mixed sludge), dewatering of slurry and digestate as well as sludge from industry.

The standard application of PPU is the thickening of sludge from the DAF (20 - 40 L/h (per each 1 m³ floated wastewater) with DM 3 - 5% and secondary sludge from the biological treatment with DM 1%.

Advantages:

Self-Cleaning	large transport load
no clogging	no odor
no backwash	easy maintenance
stable treatment capacity	