

STANDARD
EQUIPMENT



Belt Filter Press Type VL-8



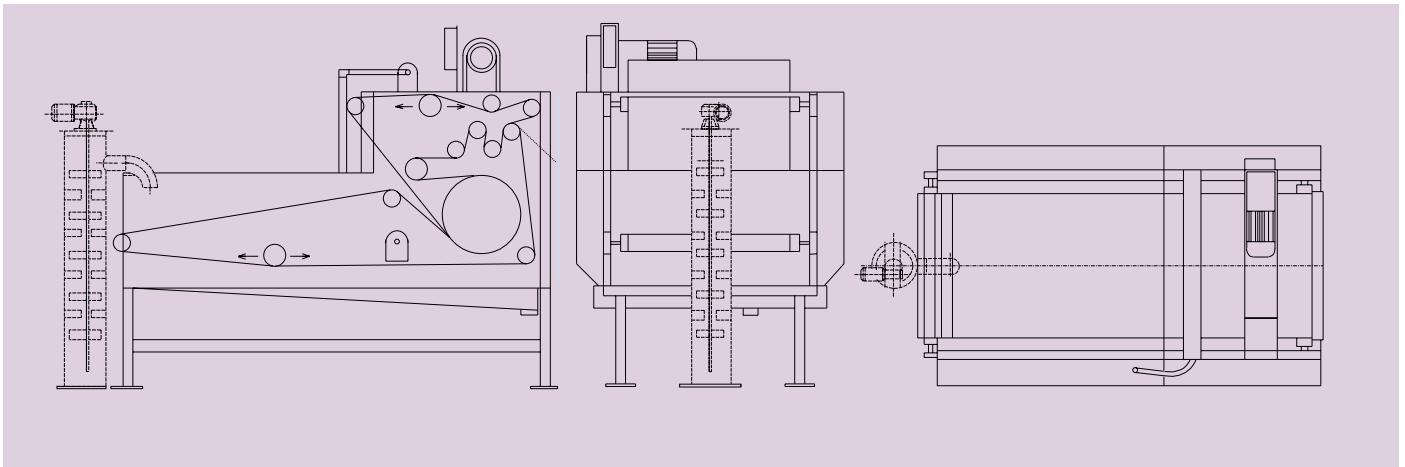
The belt filter press Type VL-8 is a product designed and manufactured by Krüger A/S. It has been developed to yield a high dry matter content even in industrial or municipal wastewater sludge which cannot be readily dewatered.

The sludge which is conditioned prior to dewatering may be aerobic, anaerobic or chemical.

The VL-8 press is an advanced, high-quality product developed for use at plants where the available space is limited.



Belt Filter Press, type VL-8



Design

Krüger's Type VL-8 belt filter press is furnished with a supporting frame and rollers made of stainless steel. The press is enclosed in maintenance-free, easily detachable covers of stainless steel. The filter belts - one upper and one lower - are made of strong, woven, nylon cloth with a normal working life of 6,000-8,000 hours. Tensioning and tracking of the belts are performed automatically. The velocity is infinitely variable. The filter belts are washed automatically during and upon completion of the sludge pressing sequence.

The VL-8 press can be equipped with an air exhauster discharging into the atmosphere and a flocculation unit for the purpose of optimising the dewaterability. The VL-8 press can also be supplied mounted on an insulated trailer with the dimensions: L: 450 cm, W: 240 cm and H: 320 cm. The trailer is made of fibre glass and mounted on a galvanised chassis. The mobile press is supplied ready for operation with complete piping arrangement and pumps for sludge feeding, chemical dosing and wash-water, as well as with a control panel for controlling the sludge dewatering process.

Operation

The sludge dewatering is performed in three phases:

THE CONDITIONING PHASE in which organic polyelectrolyte (polymer) is added. The purpose of this is to increase the sludge dewaterability.

THE DEWATERING PHASE in which the sludge is distributed and spread on the upper horizontal part of the press allowing the interstitial water between the sludge flocs to be removed by gravitation.

THE PRESSING PHASE in which the sludge is taken into the pressing zone between an upper and lower filter belt. The roller pressure can be adjusted in order to obtain the highest possible dry matter content in the dewatered sludge.

2 VL-8 models

The VL-8 press is available with pneumatic belt tracking and with belt tracking performed by belt tracking rods. Pneumatic belt tracking reduces the number of belt seams required.

Working Environment

The VL-8 meets the requirements of the Danish Working Environment Service as regards safety on the workplace.

Technical data	Belt width	Width, sludge dewater. unit	VWeight VL-8	VL-8 mobil	Installed effect
	800 mm	1330 mm	900 kg	2350 kg	max. 6,35 kW
Sludge type	Aerobic, activated sludge Dry matter 2-4%		Digested, primary sludge Dry matter 4-6%		
* Guiding dewatering capacity	2-3 m ³ /h		1,5-2,5 m ³ /h		
Dry matter in filter cake	approx. 18%		approx. 25%		

* Actual capacity and dry matter content are determined by dewatering tests

Krüger A/S reserves the right to change technical specifications without prior notice.

KRÜGER

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