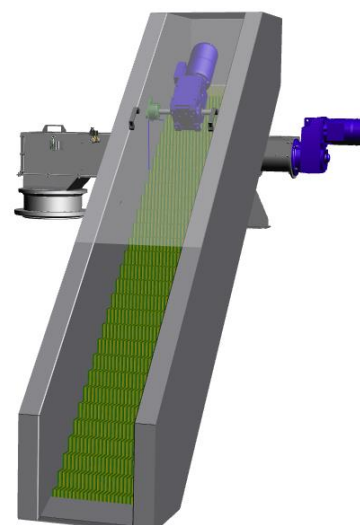


STEP FINE SCREEN WITH AN INTEGRATED COMPACTOR

SPECIFICITIES

- > Installation : Channel
- > Secured interface screen / compactor
- > 45° inclined step screen
- > Selfcleaning
- > Mesh from 3 to 6 mm
- > Discharge height up to 3 m
- > Screenings discharge downstream
- > Small footprint



DESCRIPTION / OPERATION

The STEPSEP step screen, STS/P series, are installed in channels. They fulfill the fine screening function at the inlet of a sewage treatment plant (mesh from 3 to 6 mm). They are equipped with a fully integrated ENVIROPRESS compactor for screenings dewatering.

The effluent passes through the screen and deposits the suspended matter on the filter screen constituted by vertical lamellas made of stair-shaped cutted stainlesssteel sheets.

The screen start-up is programmed periodically, and by loss of head measurement caused by the accumulation of waste on the immersed part of the screen. The recovery of waste on top of the unit is carried out by the rotating movement of the lamellas.

○ FRAME

The structure of the screen is made up of two lateral frame structures fitting the required channel width. For channel installation, lateral rubber bands are sealing the gap between screen and civil-work. Different widths and discharge heights are available to accommodate a wide variety of configurations.

○ FILTRATION SCREEN

The screen consists of fixed lamellas and movable lamellas mounted alternately. The moving lamellas describe a circular motion. Thus, their relative movement, with respect to the fixed blades, has the effect of raising the waste step by step to the top of the unit before discharge.

○ MECANISM

The circular movement of the movable assembly is generated by means of transmission arms connected to eccentric wheels. The assembly is driven by a geared motor mounted on the main driving shaft.

○ COMPACTOR

The screening waste is falling down directly into an integrated screw compactor installed transversally where it is compressed and dewatered. Screenings can also be conditioned into a continuous plastic bagging unit before being dumped into a container.

TECHNICAL DATA

MATERIAL

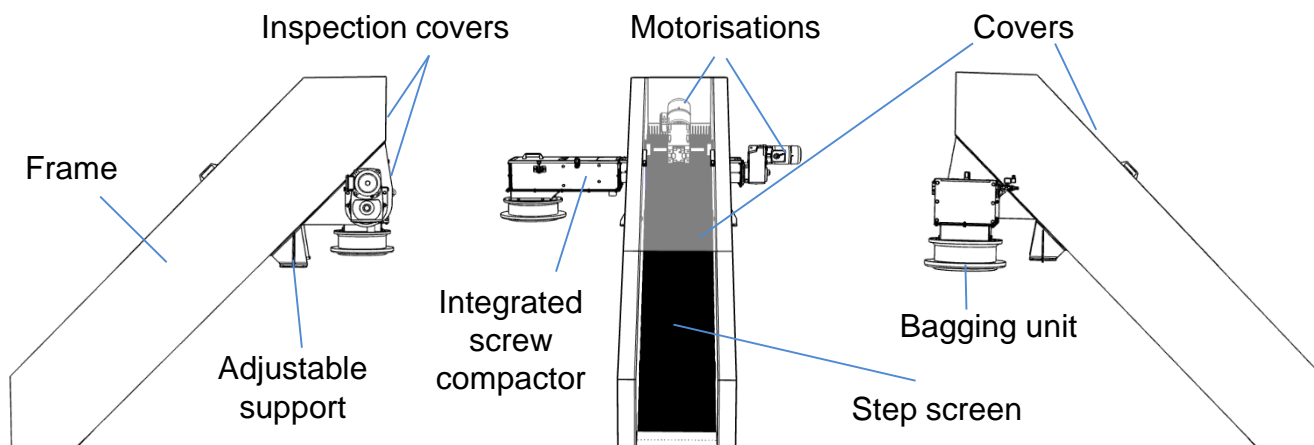
- Construction in stainless steel 304L or 316L

PERFORMANCES

Mesh (mm)	Hydraulic flow rates with urban effluent (m ³ /h)					
	STS 500 P	STS 750 P	STS 1000 P	STS 1250 P	STS 1500 P	STS 1750 P
3	219	328	437	546	656	765
4	250	375	499	624	749	874
5	273	410	546	683	819	956
6	291	437	583	728	874	1020

Above values are not contractual
Above informations are not exhaustive

LAY-OUT AND DIMENSIONS



Models	Overall dimensions in mm					
	Discharge height Maxi	Total height maxi	Channel width mini	Screen width	STS width with compactor	Channel hold length maxi
STS 500	3000	3800	500	260	2500	2000
STS750	3000	3800	750	510	2750	2000
STS1000	3000	3800	1000	760	3000	2000
STS1250	3000	3800	1250	1010	3250	2000
STS 1500	3000	3800	1500	1260	3500	2000
STS 1750	3000	3800	1750	1510	3750	2000

The ENVIROPRESS compactor can be replaced by a SPIRAPRESS compactor or by a simple ENVIROSPIR conveyor. It is also possible to combine several STEPSEP fine screens with the same compactor or with the same conveyor.

The manufacturer reserves the right to make technical and manufacturing modifications without prior notice. Not all installation possibilities and combinations are indicated. Please consult us.