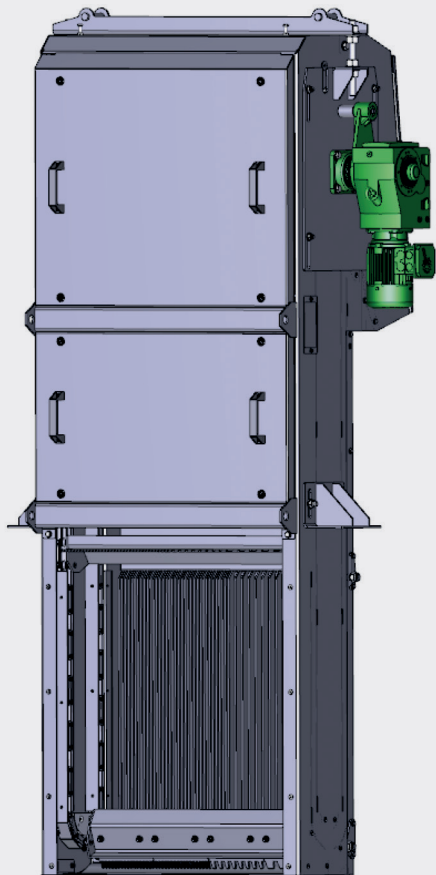


SCREENING -  
SIEVING



# ENVIROSTRAT

VERTICAL BAR SCREEN



FINE OR COARSE  
SCREENING FUNCTION  
INSTALLED IN CHANNELS

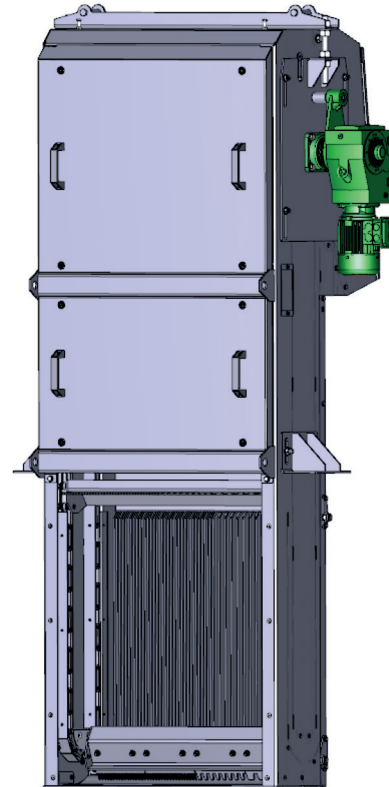
## DESCRIPTION / OPERATION

Envirostrat inclined screens, STO series, are installed in channels. They fulfill both fine or coarse screening function. They can also be equipped with a fully integrated compactor for screenings dewatering (STO/P series).

The effluent passes through the screen, while the waste is stopped by vertical bars spaced apart according to the desired mesh.

The screen start-up is programmed periodically, and by loss of head measurement caused by the accumulation of waste on the bars.

The waste is lifted by means of multiple rakes driven by two lateral chains.



## SPECIFICITIES

- Installation : Chanel
- 90° inclined bar screen
- Bar spacing from 2 to 60 mm
- Discharge height up to 15 m
- Screenings discharge downstream
- Rake driving by lateral chains
- Simple design, reliable and sturdy

### 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. Envirostrat screens are covering configurations up to 2 meter width and up to 15 meters discharge height.

### FILTRATION SCREEN

The screen consists of fixed bars or Johnson profil whose space between them defines the screening mesh. This model with multiple rakes is particularly adapted for high loaded effluent and can be used either as a fine or coarse screen (2 to 60 mm bar spacing).

### MECANISM

Rakes are fixed to lateral chains driven by toothed wheels. The precision of the upward movement of the rakes along the bar screen and then along the sliding plate guarantees a perfect scraping and raising of waste up to the point of discharge.

### WASTE

The screening waste can thus be unloaded in a container. They can be also transferred to a conveyor or a transversal screw compactor integrated to the unit (Version STO/P).

## MATERIAL

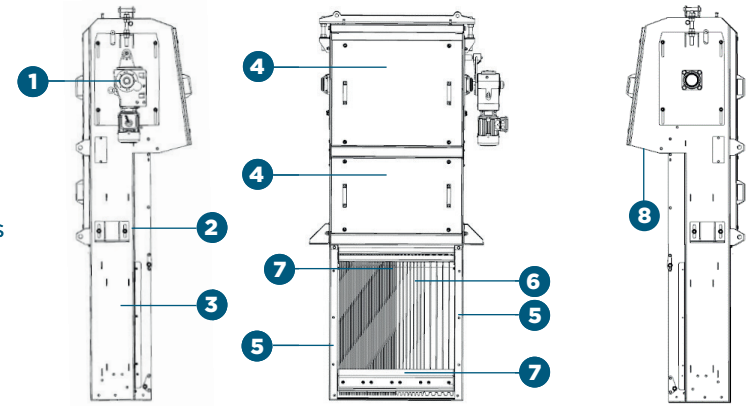
Construction in stainless steel 304L or 316L.

## PERFORMANCES

Hydraulic flow rates with urban effluent (m <sup>3</sup> /h)						
Mesh (mm)	STO 500	STO 750	STO 1000	STO 1250	STO 1500	STO 1750
From 2 to 60 mm	Flow rates are depending of channel width, mesh and hydraulic profile (Flow velocity)					
	Up to 7500 m <sup>3</sup> /h					

## LAY-OUT

- 1 Motor
- 2 Sliding plate
- 3 Frame
- 4 Covers
- 5 Lateral rake and driving chains
- 6 Bars
- 7 Rake
- 8 Solid Waste outlet



## DIMENSIONS

Models	Overall dimensions in mm				
	Discharge height maxi	Total height maxi	Channel width mini	Screen width	MKS width with compactor
<b>STO 500</b>	15000	16150	500	370	490 + 300
<b>STO 750</b>	15000	16150	750	620	740 + 300
<b>STO 1000</b>	15000	16150	1000	860	980 + 300
<b>STO 1250</b>	15000	16150	1250	1110	1230 + 300
<b>STO 1500</b>	15000	16150	1500	1360	1480 + 300
<b>STO 2000</b>	15000	16150	2000	1860	1980 + 300
<b>STO 2500</b>	15000	16150	2500	2360	2480 + 300

A STEP AHEAD IN WATER TECHNOLOGY

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