

SCREENING -
SIEVING



ENVIROSTRAP

VERTICAL BAR SCREEN

VERTICAL SCREENING
FOR CHANNELS
OR PUMPING STATIONS



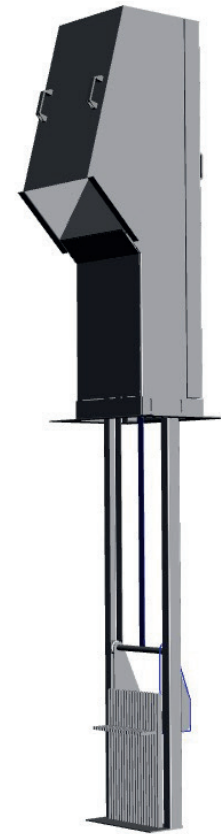
 Enviroscreens

DESCRIPTION / OPERATION

ENvirostrap vertical screens, STR series, can be installed in channels or in pumping stations. They fulfill both fine or coarse screening function. They can also be equipped with a fully integrated compactor for screenings dewatering (STR/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 a rake going alternatively upward and downward. Driving of the rake is ensured by a strap.



SPECIFICITIES

- Installation : Pumping station / Channel
- Vertical screening
- Bar spacing from 6 to 30 mm
- Discharge height up to 6 m
- Screenings discharge upstream
- Rake driving by strap
- Simple design, reliable and sturdy

FRAME

The structure of the screen is made up of two lateral frame structures offering two screening widths possibilities of 400 or 600 mm. For channel installation, lateral rubber bands are sealing the gap between screen and civil-work. For pumping stations, a quick-coupling flange is an integral part of the machine. It is possible to pull out the screen without going down to the bottom of the station

FILTRATION SCREEN

The screen consists of fixed bars whose space between them defines the screening mesh. This simple technology is suitable for low flow rates, which can be used either as a fine or coarse screen (6 to 30 mm bar spacing).

MECANISM

The upward and downward movement of the rake is generated by the winding and unwinding of a strap. An innovative central guide mechanism directs the toothed rake between the bars for perfect penetration into the bars and an effective waste lifting.

WASTE

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

MATERIAL

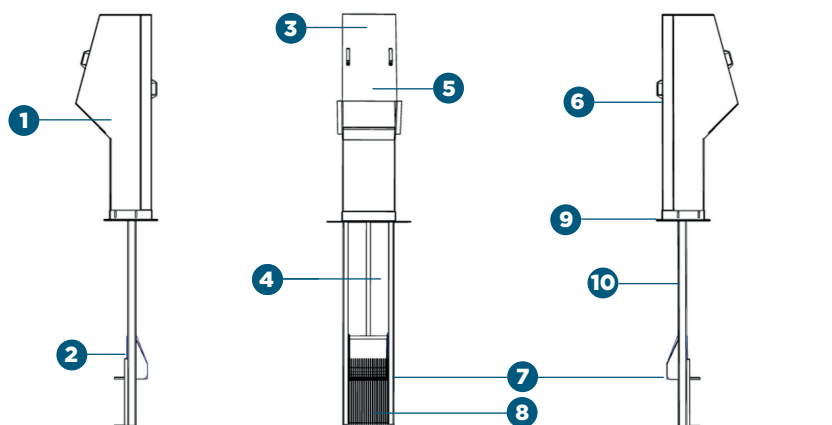
Construction in stainless steel 304L or 316L.

PERFORMANCES

Hydraulic flow rates with urban effluent (m ³ /h)						
Mesh (mm)	6	10	15	20	25	30
STR 500	73	91	104	112	117	121
STR 700	109	136	156	167	176	181

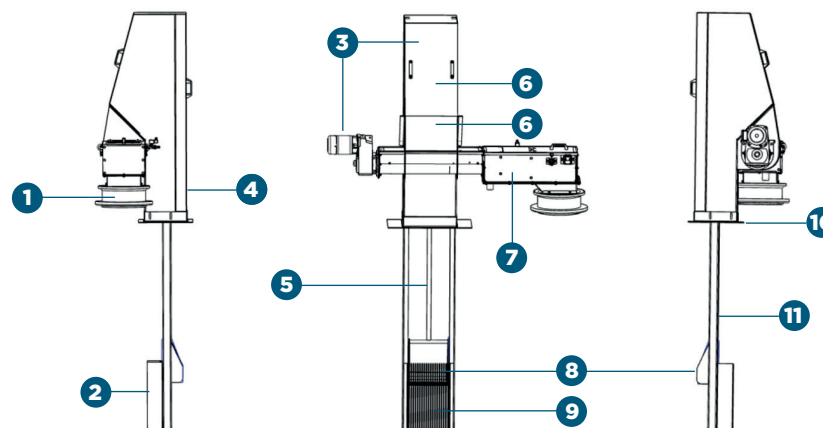


LAY-OUTS



- 1 Solid waste outlet
- 2 Effluent inlet
- 3 Motorisation
- 4 Strap
- 5 Inspection cover
- 6 Cover
- 7 Rake
- 8 Bar screen
- 9 Fixing flange/ground level
- 10 Frame

WITH COMPACTOR

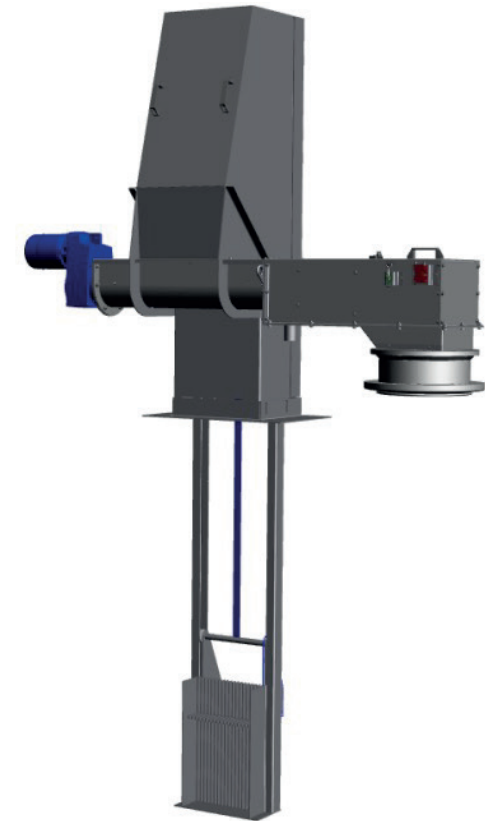


- 1 Bagging unit
- 2 Effluent inlet
- 3 Motorisations
- 4 Cover
- 5 strap
- 6 Inspection covers
- 7 Screw compactor
- 8 Rake
- 9 Bar screen
- 10 Fixing flange/ground level
- 11 Frame

The Enviropac compactor can be replaced by a Envirocompact compactor or by a simple Enviroscrew conveyor. It is also possible to combine several Envirostrap Bar screens with the same compactor or with the same conveyor.

OPTION : BAR SCREEN WITH AN INTEGRATED 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.



DIMENSIONS

	Overall dimensions in mm						
Models	Discharge height maxi	Total height maxi	Channel width mini	Screen width	STR width		Channel hold length maxi
						with COMPACTOR	
STR 500	6000	7100	500	400	490	2500	800
STR 700	6000	7100	700	600	690	2700	800

A STEP AHEAD IN WATER TECHNOLOGY

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