

SCREENING -
SIEVING



ENVIROPREP

COMPACT PRETREATMENT UNIT

SCREENING, SAND REMOVAL,
FAT REMOVAL OF RAW
EFFLUENTS, ALL-IN-ONE

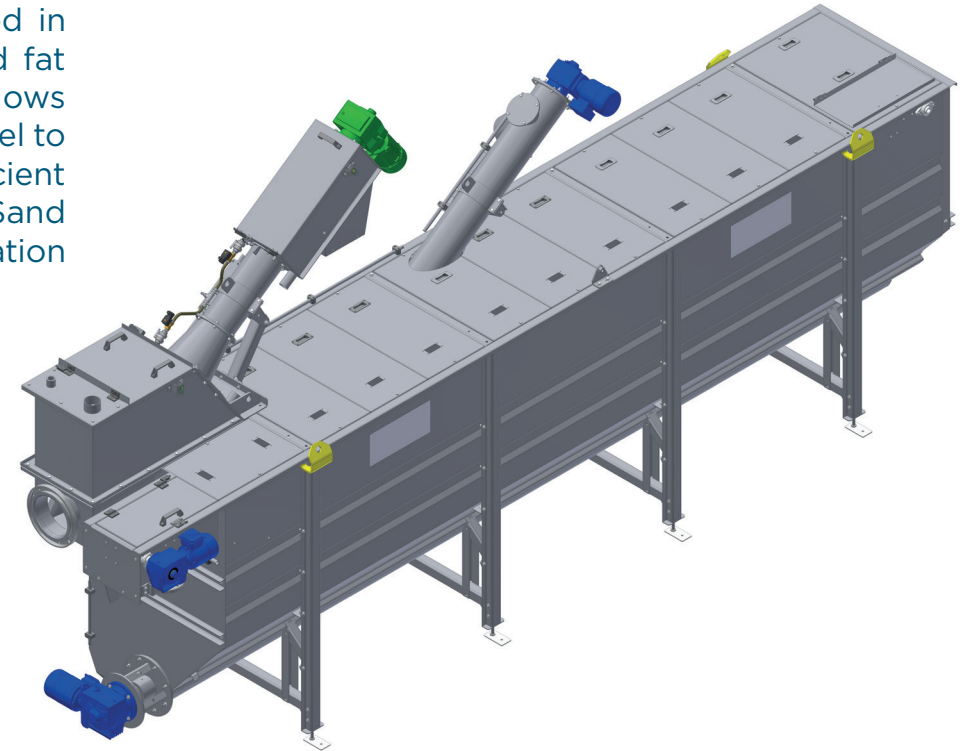


DESCRIPTION / OPERATION

The compact pretreatment unit Enviromax are machine-welded in stainless steel with three functions, screening, sand removal, and fat removal of raw effluents. Enviromax units are designed to accept flows from 10 up to 500 m³/hr, but several units can be installed in parallel to accept flow variation due to seasonality or to higher flow. An efficient screening is performed with a Spirascreen adapted to each model. Sand and fat removal is performed inside a longitudinal tank in continuation to the screening phase.

APPLICATION

The compact pretreatment unit Envirostep are designed for urban and industrial raw effluents. Such simple and efficient solution fits perfectly with projects looking after minimizing the concrete and reducing the pretreatment operating costs of urban and industrial sewage treatment plants.



SCREENING AND COMPACTING

The solids are retained by the grid and then extracted and conveyed by the screw to the compaction zone. The compaction can be integrated into the screening machine, or carried out by an Enviropac transversal compactor equipped with an innovative and specific back pressure system to adjust the dryness.

SAND AND FAT REMOVAL

The bubbles formed by an air insufflation ensure the separation of the fat by flotation and separate the organic materials stuck to the sand. The sand and fat removing tank is designed by modules of identical lengths. This modularity offers a great flexibility. It is thus possible to vary, at the origin or later on, the length of the tank to adapt to the desired hydraulic speeds.

SAND EXTRACTION

The decanted sand is collected by a first horizontal screw installed at the bottom of the tank, and is transferred to an extraction and draining screw for evacuation towards storage systems before final disposal.

FAT EXTRACTION

The extraction of fat takes place over the entire length of the machine by means of a longitudinal box. The accumulation of fat in this zone is favored by the movement created by the insufflation of air. The fat is recovered and evacuated by a surface scraper.

MATERIAL

Construction in stainless steel 304L or 316L
Screw in special steel high resistance

PERFORMANCES

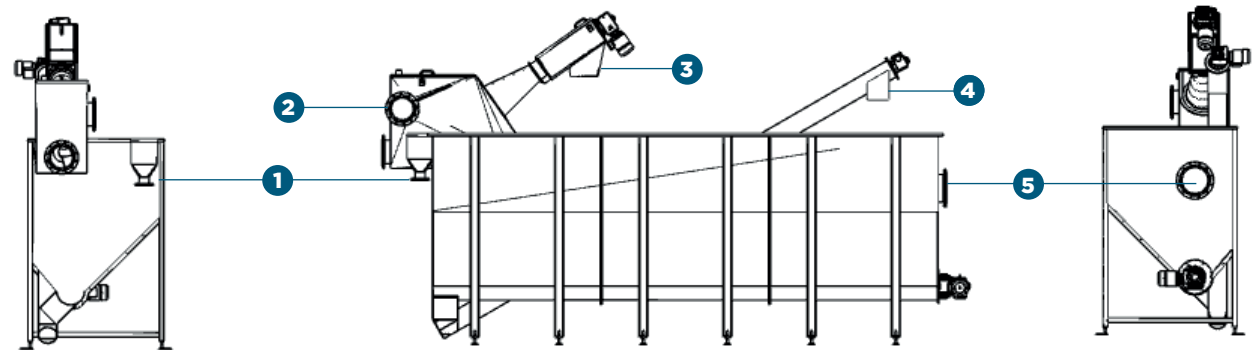
Model	Flow rate (m ³ /h)				
	EVS5-300	EVS5-400	EVS5-500	EVS5-600	EVS5-680
Sand capture rate: 90% > 200 microns	110	220	350	530	750

SPECIFICITIES

- Compact and modular closed unit
- Installation and commissioning: 3-5days
- No civil-work (slab only)
- Lower capital and maintenance costs

LAY-OUT

- 1 Fat outlet
- 2 Effluent inlet
- 3 Solid waste
- 4 Sand outlet
- 5 Treated effluent outlet



DIMENSIONS

Models	Overall dimensions in mm		
	Small	Medium	Large
Length	according to offer	according to offer	according to offer
Width	1100	1500	2000
Height	3300	4100	4800

A STEP AHEAD IN WATER TECHNOLOGY

sfa-enviro.com

 [@sfa_enviro](https://twitter.com/sfa_enviro)

 **SFA** GROUP

