

## SAND CLASSIFIER

### SPECIFICITIES

- > 90% particles separation efficiency over 200 $\mu$
- > Easy installation
- > Small footprint/closed unit
- > Easy maintenance
- > Low maintenance costs
- > Reliability and durability



### DESCRIPTION / OPERATION

ENVIROSAND sand classifiers fulfill the function of sand separation coming from the sand trap of pretreatment of sewage treatment plants.

The settled sand, still wet, are pumped back or air-lifted to be transferred by piping to the settling tank of the ENVIROSAND sand classifier.

The tank volumes of each model are sized for predefined maximum flow rates. This is done in order to respect the residence times and the decantation speeds, guaranteeing the separation of more than 90% of the particles greater than 200 microns.

#### ○ SETTLING

The connection to the tank is by flange. A siphoid partition inscribes the course to be carried out by the effluent in order to match, with respect to the volume of the tank, the hydraulic decanting rules.

An internal overflow collects treated water and directs it to the outlet flange.

#### ○ SAND EXTRACTION

The extraction of the sand is carried out by a shaftless screw made of special hardened steel.

The screw lays on bars spaced apart.

Beyond the guiding effect that these bars performed, they also ensure the drainage of the water during sand lifting in the emerged area of the screw. The sands thus drained can be discharged into a container.

# TECHNICAL DATA

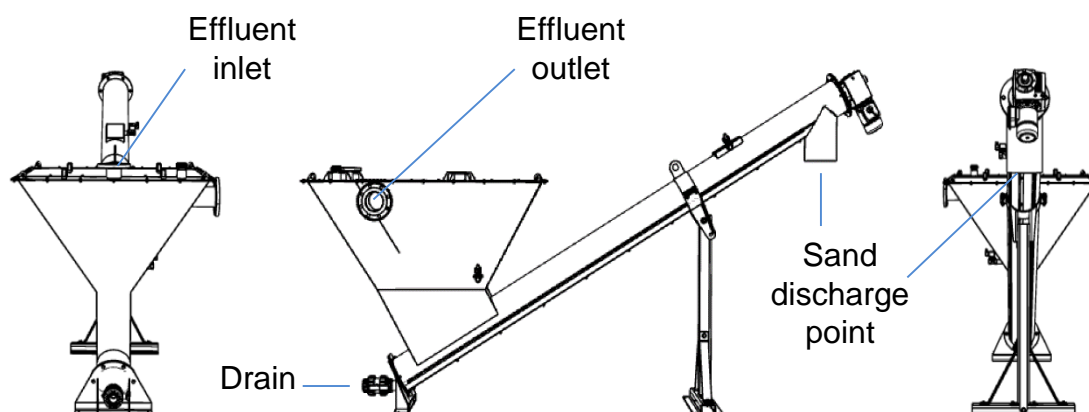
## MATERIAL

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

## PERFORMANCES

Model	Flow rate (m <sup>3</sup> /h)				
	ERS 15	ERS 30	ERS 50	ERS 75	ERS 100
Sand capture rate: 90% > 200 microns	15	30	50	75	100

## LAY-OUT AND DIMENSIONS



Model	Overall dimensions in mm				
	ERS 15	ERS 30	ERS 50	ERS 75	ERS 100
Length	3800	4500	5000	5500	6500
Width	1250	1800	2000	2300	2400
Height	2000	2200	2400	2600	3000

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.