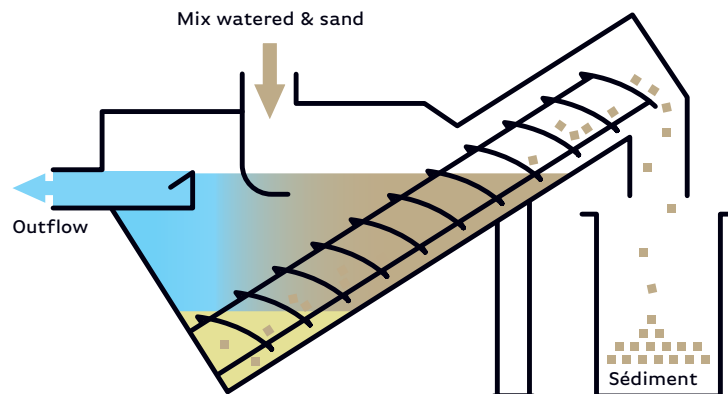


SAND CLASSIFIER

SERSAB

The sand classifier **SERSAB** is used to desilt urban or industrial wastewater.



Principle

The sand classifier **SERSAB** is used to desilt urban or industrial wastewater. It is able to extract 90% of sand grains whose diameter is greater than 0.2mm, with organic matter contents of 10% at best.

The sand classifier **SERSAB** is a separator in which the sand particles, or other heavy materials, contained in the raw water to be treated, sediment and are extracted from the bottom by an inclined Archimedes'

screw, while the water is recovered in the upper part after having crossed a weir.

Design features

- The main box is a hopper whose two lateral sides are tilted and join the trough of the extraction screw located in the lower part;
- The input housing of the raw effluent to be treated, comprises a flow distributor which reduces turbulence in the device;
- Sand falls towards the Archimedes' screw, while clear water passes over the weir and flows into a chute;
- The sand accumulated at the bottom is lifted by the Archimedes' screw to the jetty at the top, located above the water level;

- Once above the water level, water jets ensure the washing of the organics contained in the sand;
- The axle less Archimedes' screw is made of thick hard steel. It is driven by the gear motor located in the upper part;
- The screw is set on three attrition plates, made of anti-abrasion stainless steel, welded to the bottom of the trough;
- The inlet and water outlet are provided with flanges;
- A sand outlet chute is also provided;

- On its upper part, the trough is provided with a screwed cover. An articulated hatch enables the operator to inspect the water outlet;
- Until **SERSAB 200** model, the geared motor is flanged-set

For larger models, the geared motor is mounted floating;

- The device is equipped with support feet.

Options

Panel

Electrical panel with control and protection elements.

Hydrocyclone

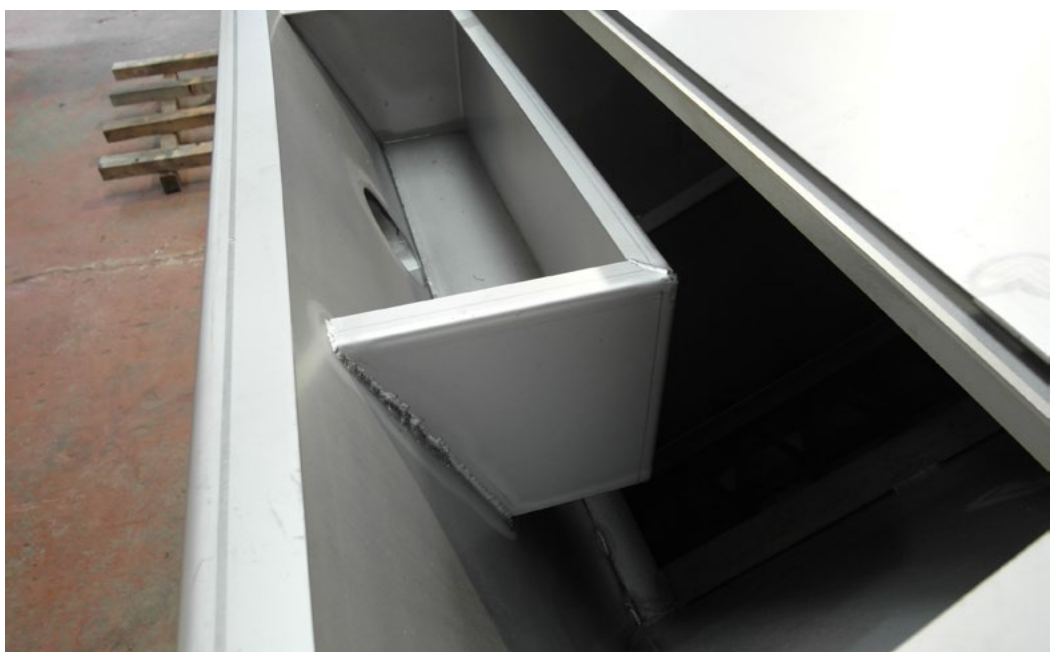
Hydrocyclone in the inlet.

Construction

Standard construction in 304L stainless steel, 316 L optional.

Screw

Extended screws length for better sand dryness at the outlet.



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