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Water treatment solutions

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CURVED SCREEN SIEVE

SERCOURB

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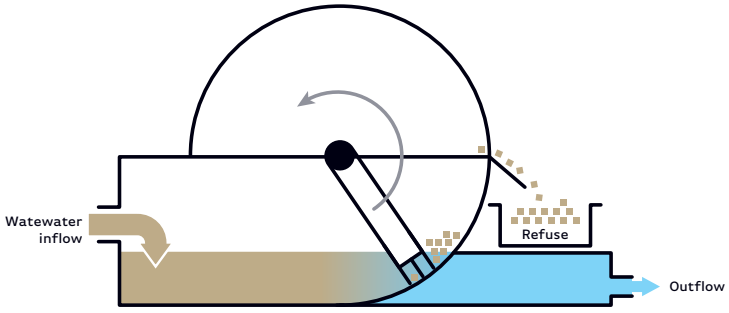


Principle

The curved screen **SERCOURB** is part of run-of-river screens or sieves. Installed in a channel, its curved grid stops the particles larger than the opening slot, contained in the effluent. These particles are then scraped and raised by a rotating double arm rake towards the discharge chute, located on the upper part of the grid. The rotating double arm rake is equipped with a flexible flap on one side and a comb on the other.

Design features

The curved screen **SERCOURB** consists of the following elements:

- A **folded sheet metal box,** made of 304 L stainless steel, 3 mm thick. Surrounded by a tubular frame, it allows the equipment to be placed in a concrete channel.
- A **curved and removable** filtering grid, composed for the "sieve" version of triangular section wires, until 6 mm slots. Further, in the "screen" version, the grid is made of 6×20 mm section stainless steel bars, laser-cut set on edge.

Its width is defined according to the flow rate, the slot and the draught (water height in front of the grid).

The bending radius of the grid is adapted to the channel depth.

- A **scraping system** includes:
- A **double arm** mounted on an axis, maintained by two self-aligned stainless steel bearings:
- On one of the arms, there is a rubber flap for a coarse scraping of the matters accumulated on the grid. Only large matters will be taken up.
- On the other arm extremity, a stainless steel comb (or a stainless steel wires brush for "sieve" version), mounted on a retractable support. The comb/brush ensures an optimal unclogging of the grid.
- The articulation equipped with a return gas-spring avoids the risk of the scraping system blocking in case some big material is blocked between the bars of the grid.
- A **motor** drives the arms in rotation.
- A **position sensor** on the arm that stops the rotation once it is out of the water flow area.
- The **ejection system** that pushes all matters present on the scraper or the flap towards the discharge chute.

Options

Casing

Stainless steel casing for above ground installation, with inlet and outlet flanges and overflow weir on side channel with manual grid.

Covering

Covering in mesh or solid sheet metal.

Panel

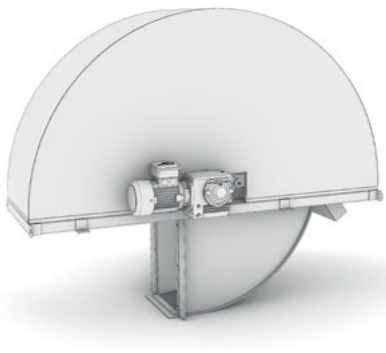
Electrical control panel with resistive level probes.

Compactor

Possibility of integrating a waste screw compactors **SERCOMP**, **SERCOMP+** or **ECOCOMP**.

Construction

316 L stainless steel construction on request.



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