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ELEVATING SCREEN SIEVE

ECOTEL

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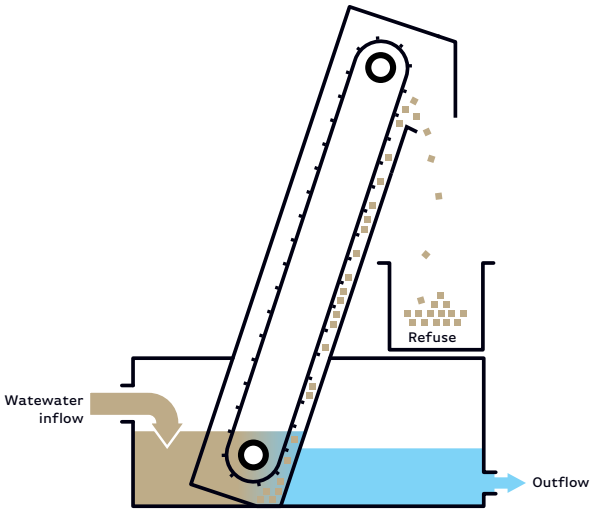

Principle

The elevating screen sieve **ECOTEL** model works in the same way as its big brother the elevating screen sieve **SERTEL**. It is installed in a water channel; the solid matters are stopped by the grid and scrapped up by the scrapers.

This model of screen sieve was designed with the main objective of lowering its price compared to the elevating screen sieve **SERTEL**, to make it affordable for small Wastewater Treatment Plants (WWTP). In fact, it is intended for small installations for lower flow rates – under 20 m3/h. This objective was achieved by choosing a single working width, by using a smaller motor and by simplifying the chain tensioning system. The other components are similar to the elevating screen sieve **SERTEL**.

INSTALLATION AND OPERATION

Like the elevating screen sieve **SERTEL,** the elevating screen sieve **ECOTEL** is very easy to install:

- It is introduced into the channel, set at 60°, resting against the downstream edge of the channel (see diagram) or on a crosspiece, if the channel is open downstream.
- 2 braces are then anchored on the channel wall sides, and two-folded sheets on the downstream part ensure the sealing between the housing and the walls.
- From the channel bottom to the discharge chute, there is a 1,07m drop for **ECOTEL S,** 1,44m for **ECOTEL N**, 1,88m for **ECOTEL XL** and 2,32m for **ECOTEL XXL**.

A level sensor installed upstream rules the operation.

Design features

The elevating screen sieves **ECOTEL** consists of the following elements:

- **A housing:**

  Made of AISI 304L folded sheet, length of 1,5m, 2m, 2,5m or 3m and total width of 380 mm, to be installed with a 60° inclination angle in a channel.

- **A filter grid:**

  500 mm in length and 250 mm in width, made of triangular section wires or 15x5mm bars section set on the edge, according to the mesh size. The grid, maintained by two screws, is very easy to change in case of damage. The filtration mesh can be chosen between 0.5 and 40 mm.

Scraping assembly:

Two lateral chains, built out of stainless steel with rollers in DELRIN plastic, are driven by 2 gear wheels mounted on a stainless steel axis.

For slots up to 3 mm, stainless steel wire brushes are used to scrape the grid and push the matters up to the outlet chute. For 6mm and up slots, plastic combs are mounted. The space between each rake is close of one mete

Motorization:

Motor: 0.37 KW – 380 v – Waterproof IP 55 – Class F

- Simplified chain tensioning system.

Options

Box

Box for Installation on ground, with inlet and outlet flanges and overflow weir on side channel with manual grid.

Filters

Porous bags made of smooth polypropylene to allow the rejections draining.

Probes level

Probes level with fixations.

Compactor

Waste screw compactors **ECOCOMP** or **SERCOMP**.

Panel

Electric panel.

Construction

Stainless steel construction 316 L.

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