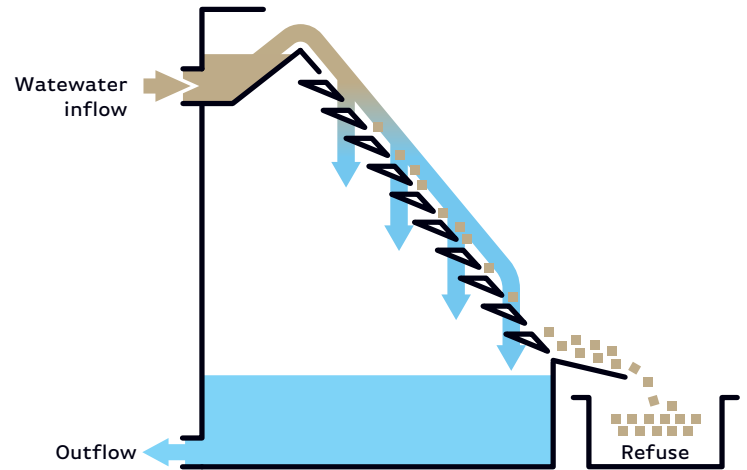


STATIC SIEVE

SERTIS

The **SERTIS** static sieve is remarkable from many points of view: it is not very expensive, it is the only one of our devices which does not have a motor and it is the most effective to extract the "soft" matters contained in the water.



Principle

ADVANTAGES

The static sieve **SERTIS** is remarkable in many ways:

- It is the only one of our machines that runs without a motor
- It is the most efficient sieve to extract "soft" materials from water (cheese particles, cow stomach content in slaughterhouses, pig slurry, sewage plant sludge), thanks to its tangential filtration effect

- It is more efficient when it is partially clogged
- It is cheap

In the static sieve **SERTIS**, the inclined filtering grid is made up of wires with a triangular section arranged horizontally. The space between the wires is chosen according to the degree of filtration required and can vary from 0.25 to 2 mm.

The liquid flow arrives through a weir located upstream of the screen: it first

takes a certain speed by passing over a solid plate – a sort of "launching ramp" – then arrives on the filtering panel.

Under the effect of the kinetic energy acquired in the first part of the descent, the solid particles tend to go "straight down", while the water easily "takes a 90° turn" to cross the screen.

This is called the "tangential filtration" effect, as opposed to normal filtration where the flow and the particles it contains are perpendicular to the filtering surface.

Design features

- Standard housing is made of AISI 304L, 3 mm thick metal sheet.
- It includes an inlet box with a spillway towards the sieve
- The flow enters the inlet box by the top or the sides. The filtered water is then

collected in the lower part of the box

- The grid, made of AISI 304L steel, is folded into 3 slopes depending on the application. It is assembled on a frame, which can rotate over to 180° to allow a periodic thorough cleaning

- Basic standard cleaning is carried out by 2 water jets ramps, which have to be fed with water under a pressure of 3 bars

- A more thorough cleaning must be carried out periodically, by tilting the grid to 180 degrees and spraying water with the pressure lance.

Options

Compactor

Screw conveyor **SERVIS**, or screw compactor **SERCOMP** with bagger.

Cover

Full cover on the front.

Construction

Standard stainless construction 304L, 316L steel optional.



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