EMO
ENVIRONMENT BY TECHNOLOGY

DE

Step-type fine screen

The DE step-type fine screen helps to protect the WWTP by trapping waste such as wipes, rags, textiles, paper, plastics and fibrous materials, and to reduce the pollution load of the water to be treated.

There are many areas of application:
> urban wastewater treatment plants
> industrial wastewater treatment plants (food processing, paper mills, tannery, slaughter house, etc.).

Different designs and versions are available:
- for high flow rates,
- for high and low water levels,
- for heavy industrial effluents.



ADVANTAGES

- Channel or casing configurations (depending on existing constraints)
- Robust frame
- Tilting equipment for easy maintenance
- No wash water required (clogging operation)
- Anti-blocking device
- High capture rate
- Screening mesh from 1 to 6 mm



In a channel



In a tank

EMOPRD00851-DPR00-A-EN

Information: the technical data announced are not contractual and may change at any time.

OPERATING PRINCIPLE

The DE step-type fine screen is made up of 2 sets of blades: one set of fixed blades and another set of mobile blades.

The screen works at clogging.
The fixed and moving blades are aligned. The waste forms a mat on the blade field.

Accumulated waste increases filtration ratio. This accumulation clogs the bar screen. The upstream water level rises, triggering the bar screen to operate.

This allows the waste to be lifted by the rotating movement of the mobile blades. Once the upstream water level has dropped, the bar screen stops.



Blade sets
fixed and mobile



Mat of waste
on blades (additional filter)

RANGE & OPTIONS

The principle is simple: keep the field of blades clogged like an additional filter, giving a 60-80% rate of material capture depending on the spacing of the blades, the nature of the water being treated and its material load.

Designation			
Type	for high flow rates	for high or low water levels	for heavy industrial effluents
Discharge height *	from 1030 to 4700 mm	from 900 to 4340 mm	from 640 to 4450 mm
Channel width	from 400 to 2000 mm	from 400 to 2000 mm	from 300 to 2000 mm

* special manufacture upon request





Self standing version with by-pass channel

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