STORM SCREEN TYPE SAS

BIOGEST® | CSO screening with screw cleaning



Robust, continuously cleaned screening of combined sewer overflows up to 10 m³/s

Combined sewers carry rainwater and sewage in a common pipe. In heavy rainfall the capacity of the system can be exceeded and a combined sewer overflow (CSO) is required. Untreated effluent can then discharge from the CSO outlet, leaving visual and odour pollution in the surrounding area.

The BIOGEST® Storm Screen Type SAS ensures high performance screening at overflow weirs. It prevents the discharge of floating, suspended, non-biodegradable and solid material: any material greater than 6 mm in two directions is screened from the incoming flow without disturbing the discharge process.

How it works

The screen is installed at the overflow weir, ahead of the weir. It consists of a perforated semicircular filtering basket with 6 mm holes (5 mm or 8 mm available), a rotating screw conveyor and a zone of calm for the discharge of the collected screenings.

A level measurement ahead of the weir controls the screen. As the water level rises to the critical overflow point, the screw conveyor starts to rotate. It keeps the holes clear of debris and carries the screenings axially to the discharge zone, from where they are forwarded to the wastewater treatment plant. The compact gear motor sits at one end of the machine and is sized to the length and diameter of the screen.

The system is modular and can be adapted to site-specific applications, for new installations and for retrofitting in existing structures with minimal or no alterations.

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Advantages

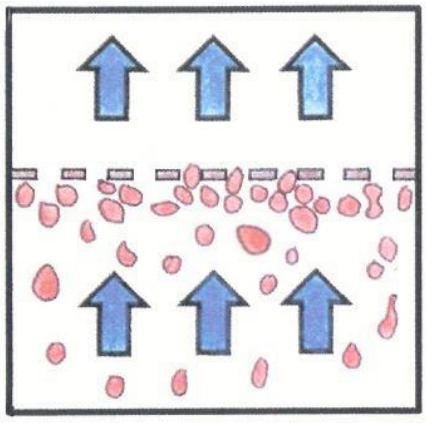
- Ideal solids retention through two-dimensional screening
- Screenings forwarded to the wastewater treatment plant
- No build-up of screenings: continuous cleaning of the screen surface
- Efficient, automatic cleaning of the screen surface
- Easy retrofitting through existing manholes and on existing weirs
- Fully automatic operation with integrated level monitoring
- Robust stainless steel construction with minimal maintenance
- Modular system adapted to site-specific applications

Design information

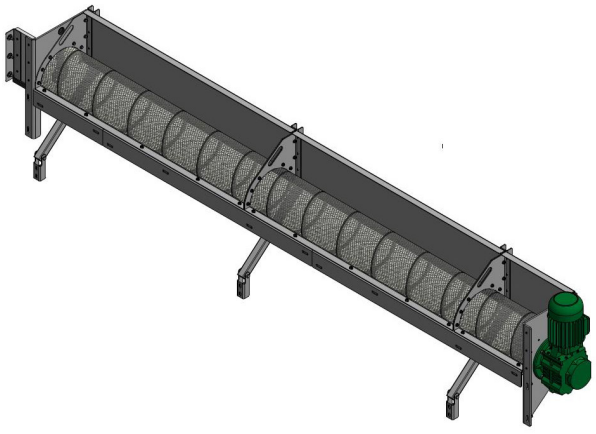
For a complete proposal please provide the design spill flow rate, maximum permissible head over the weir, available weir length, whether the chamber is new or existing, chamber dimensions and inlet, weir and roof slab levels. A CAD drawing or sketch of the chamber is also helpful.

Specification

Basket diameter	300 to 1,000 mm (DN 300 to 1000)
Flow rate	Up to 10,000 l/s
Basket length	Up to 10,000 mm
Frame width	400 to 1,200 mm
Opening size	6 mm (5 mm to 8 mm available)
Power	1.1 to 4 kW
Material	Stainless steel







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