



A brand of
Aqseptence Group

Noggerath® Step Screen PSS-R

For screening of municipal or industrial wastewater in a channel or as tank version.



The Noggerath® Step Screen PSS-R from Passavant-Geiger is mainly applied in the first mechanical cleaning stage. It is installed directly on the channel bottom or in a tank.

The liquid to be treated flows into the Step Screen casing being open in flow direction. Solids are held back by the lamella package. By covering the screen area with a solids layer, the open area is reduced, thus, rising the upstream liquid level. After reaching a preset differential water level the Step Screen drive motor is activated.

The Step Screen has a bottom flap on its lowest step that protects the moving lamellas from clogging. It also prevents solids from settling under the screen and causing blockages. During each rotation cycle, the solids held back are transported onto the next higher step of the fixed lamella package and conveyed step-by-step to the discharge. At this point, the solids are discharged into a container or transferred to a machine for further transport or processing.

Benefits

- High operational reliability and low operating costs
- Robust eccentric drive rods
- Reliable discharge of the screenings into hopper
- No necessity for invert recess and / or flushing system in the base area
- Low-maintenance rocker arm drive

Design features

- Modular frame construction
- Functional encapsulation
- Motor brake and electric overload protection
- Stable coupling linkage for the transmission of the circular motion

Materials

Materials for frames, beams, rocker arm, lamella:

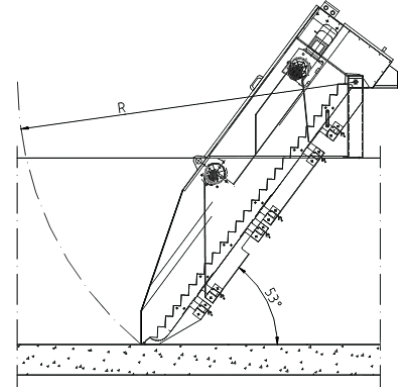
- EN 1.4307 (AISI 304L) or
- EN 1.4404 (AISI 316L)
- Others on request

Design sizes & performance

Channel width	430–2,130 mm
Discharge height from channel bottom (4 sizes)	1,670; 2,100 mm 2,800; 3,490 mm
Standard gap width	3 and 5 mm
Flow rate	up to 10,000 m ³ /h

Options

- Supports with mechanism for swivelling without dismantling of down-stream machine
- Bearings with automatic lubrication



Applications & fields of operation

The Noggerath® Step Screen PSS-R is primarily employed in municipal wastewater screening in the inlet of municipal wastewater treatment plants.

Unique features

- The Noggerath® Step Screen PSS-R operates in the counter flow principle and thus ensures a gentle cleaning without flushing or brushes. The capture rate will improve additionally by the produced screenings carpet on the steps the inlet of municipal wastewater treatment plants.
- Higher solid matter separation efficiency than in conventional step screens
- Improved conveying performance
- Reliable rocker arm drive
- Improved hydraulic performance

Noggerath®
Step Screen PSS-R



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