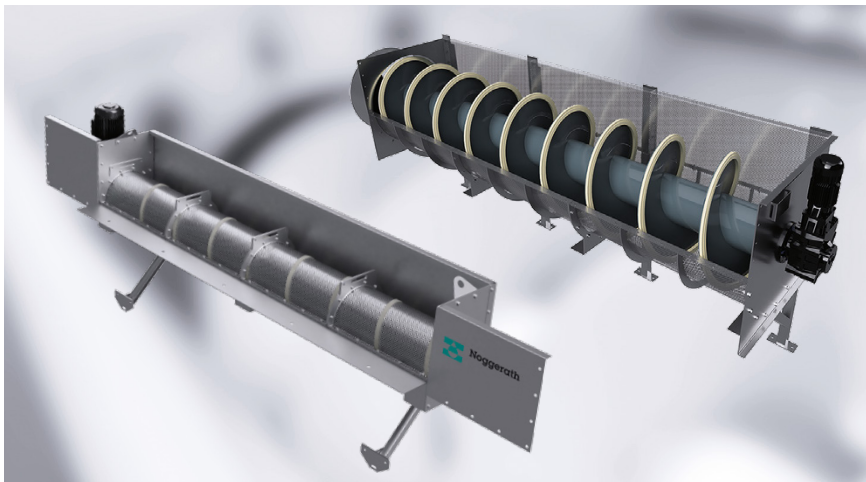




A brand of
Aqseptence Group

Noggerath® Overflow Screen OVF / OVF-R

Fine screening of wastewater and stormwater at overflow discharges. The screenings/solids are mechanically filtered from the wastewater, whereby the perforated sieve surface is automatically cleaned.



The Noggerath® overflow screens OVF and OVF-R are spiral sieves for separating/filtering solids from wastewater with automatic forced cleaning of the sieve surfa-

ce. They are used in municipal or industrial wastewater treatment plants and serves as bypass sieving of discharge water to protect water bodies or downstream pro-

cesses in the event of overflow or plant failure. The screens consist of a semi-cylindrical perforated screen panel and an internal conveying or cleaning screw. During operation, the liquid flows vertically along the entire length of the screen, from top to bottom for the OVF and from bottom to top for the OVF-R (reverse) through the screen surface, efficiently retaining solids with a larger diameter than the screen perforation. The automatically operated screw conveys the solids to the discharge zone. The brush segments mounted along the entire length of the screw ensure optimum cleaning of the radial sieve surface and prevent the screenings from being pushed through the sieve.

Benefits

- High capture rate and extremely low hydraulic resistance
- Automatic forced cleaning
- High operating reliability:
 - No clogging and / or blockage
 - No pressing of the screenings through the screen
- Compact design:
 - Requires less space
 - Maximum adaptation to local conditions
- All the main parts of the screen are bolted:
 - Fast and easy maintenance, no complete disassembly from the channel required
 - Simple retrofitting of existing screens
- Screw with axial discharge in conveying direction:
 - Free discharge to avoid blockages of debris
- No service water required

Design sizes & performance

Nominal screen diameter [mm]	300, 500, 700, 1,000
Screen length	customized
Perforation diameter [mm]	3 – 10
Installation angle	horizontal
Flow rate per 1m sieve trough length [m³/h]	up to 1,600

Materials

Casing, supports, sieve trough	Stainless steel AISI 304 or AISI 316L Others on request
Screw	Special Micro Alloy Steel St52 (carbon steel in accordance with Passavant-Geiger standard), alternatively stainless steel AISI 304 or AISI 316L
Brush	Plastic, alternatively AISI 304

Options

- Screenings discharged from the OVF / OVF-R for further treatment
- Screw in stainless steel
- Geared motor floodable
- Level sensor

Applications & fields of operation

- Municipal and industrial wastewater treatment
- Discharge restriction for mechanical pre-treatment to protect the receiving waters (mixed sewer and storm water sewer systems)
- Sieving of discharge water at overflows
- Fine sieving of organics from wash water
- Preliminary sieving for water processing plants
- Bypass sieving



OVF 300
Stormwater Overflow-Screening of mixed effluent



OVF-R 300
Stormwater Overflow-Screening

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