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Aqseptence Group

## Noggerath® Combined Unit TOP / TOP-F

The complete mechanical pre-treatment of wastewater in a municipal or industrial sewage treatment plant, in the form of a single compact headworks in tank design.



The Noggerath® Combined Unit TOP replaces the entire headworks of a conventional wastewater treatment plant and includes fine screening, dewatering of screening and grit separation with the option of fat, oil and grease (FOG) removal. Noggerath® Combined Units are available in non-aerated or aerated designs for installation

above-ground or in channels. They are combined with a wide range of screens such as, for example, step screens, fine sieves and rotary drum screens.

Pumped or by gravity the wastewater enters in the screen section where coarse solids are removed from the effluent, washed, compacted and dewatered prior

to being discharged into a container. Then the screened effluent discharges into a wider tank section for grit and sand sedimentation. The grit is conveyed to a grit classifier optionally and can be further washed prior to disposal into a container.

The TOP range includes two variants: TOP and TOP-F. TOP integrates two treatment sections: a screening and a grit/sand separation section. The TOP-F range incorporates the TOP sections plus a further treatment section for FOG removal. Both variants may be fitted with air diffusers for improved separation of attached organic content from the grit and sand particles. With the TOP-F, this will effect flotation of FOG which can be removed and disposed of into a separate container or transported by pump.

### Benefits

- Mechanical pre-treatment within a low footprint
- Low requirements for civil engineering
- Complete hygienic stainless steel encapsulation
- No bearing in contact with the effluent
- Quick and easy installation
- High quality and reliability at low cost: grease removal operates independently from the water level
- Residues separated into screenings, settling solids and floating solids

## Design sizes

<b>Flowrate</b>	up to 300 l/s
<b>Screen gap width (perforation)</b>	1 – 10 mm
<b>Screen gap width (wedge wire)</b>	0.25 – 6 mm

## Materials

<b>Tanks, covers, supports</b>	Stainless steel AISI 304, AISI 316 Others on request
<b>Spirals</b>	Special Micro Alloy Steel St 52 (carbon steel in accordance with AS Group standard), alternatively stainless steel AISI 304 or AISI 316

## Options

- Wide range of screening systems:
  - Inclined Rotary Drum Screen
  - Horizontal Rotary Drum Screen
  - Continuous Belt Screen
  - Multi-Rake Bar Screen
  - Step Screen
- Integrated washing system to reduce the organic matter
- By-pass chamber with manual rake
- Continuous bagging system
- Grease pump
- Air blower

## Applications & fields of operation

- Compact pre-treatment for municipal / industrial wastewater treatment
- Replaces the entire headworks of a wastewater treatment plant
- Optimal mechanical wastewater pre-treatment for membrane plants
- Septic sludge treatment



Prison wastewater treatment



Municipal wastewater treatment plant



Municipal wastewater treatment plant

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The technical data stated in this brochure are indicative only and have to be determined for each individual case. Reserve technical changes.