

## HUBER Grit Trap GritWolf®



Grit trap with integrated lamella separator

- High separation efficiency of up to 75 µm
- Small footprint
- Integrated floating material separation
- Ideal for varying grit concentrations

## ►► Design and function

The new HUBER Grit Trap GritWolf® is different from space-consuming aerated grit channels as it consists of an aerated and an unaerated grit trap chamber. In the first smaller chamber the wastewater is exposed to fine-bubble aeration. Floatable particles rise to the water surface where they accumulate and are removed by a paddle system just before the outlet. The second chamber is unaerated and equipped with lamella units. Due to the deep flow approach and the advantages of a lamella separator, the GritWolf® reliably removes even very fine grit.

The grit trap tank is usually made of concrete, stainless steel tanks are however available as an option for smaller plant sizes. The GritWolf® can also be integrated into existing grit trap chambers. The horizontal grit conveyor, the lamella packages and the paddle system for grease removal are manufactured from corrosion-resistant material.

The grit is removed axially from the HUBER Grit Trap GritWolf® by a time-controlled horizontal screw conveyor. Even large 'sand dunes' occurring under stormwater conditions (stormwater flushes) are therefore evenly dosed into the suction area of a grit pump. The grit pump delivers the grit-water mix into a HUBER Coanda Grit Washer RoSF4 that produces clean grit in a proven way, thus perfecting the entire grit treatment system.

## ►► Applications

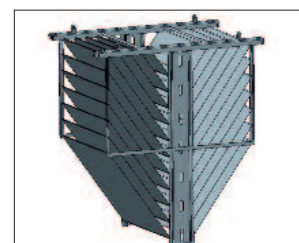
- New wastewater treatment plants
- Grit trap refurbishment
- Pre-treatment for membrane bioreactors (MBRs)

## ►► The user's benefits

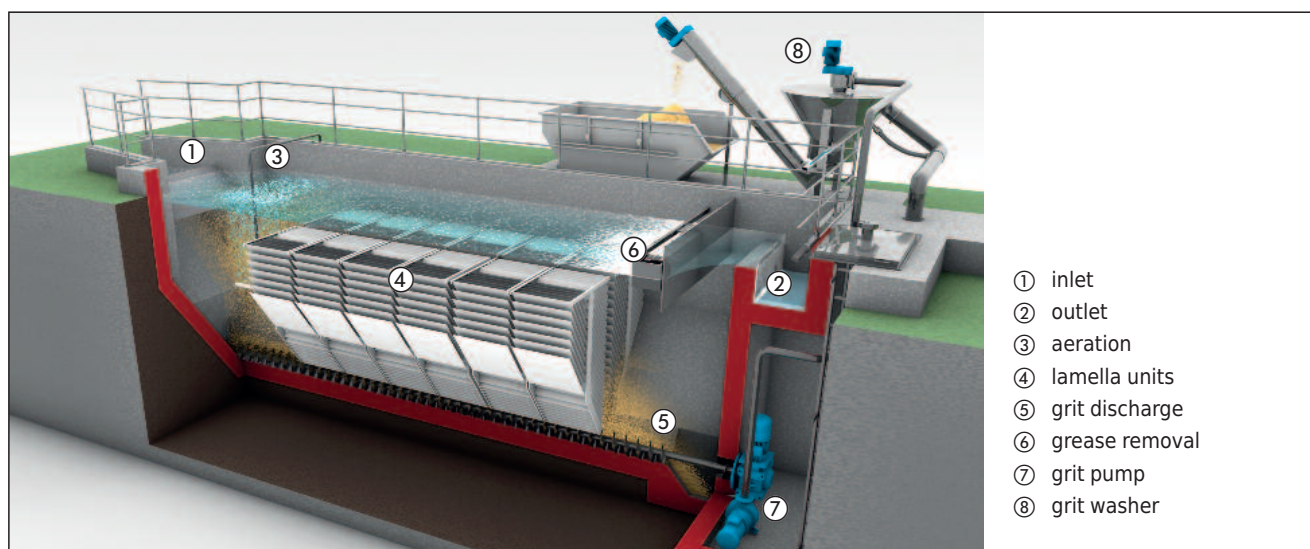
- 95% separation of particles size  $\geq 75 \mu\text{m}$
- Small footprint and space-saving compact design
- Low pressure loss
- Regulated supply of grit to the grit pump
- Floating material separation with automatic forced removal (option)
- < 3% loss on ignition with downstream grit washing



Grit retained on the lamellae



Lamella unit installed in the HUBER Grit Trap GritWolf®



- ① inlet
- ② outlet
- ③ aeration
- ④ lamella units
- ⑤ grit discharge
- ⑥ grease removal
- ⑦ grit pump
- ⑧ grit washer

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