



# HUBER

## Grit Washer RoSF G4E

Grit separation, washing, dewatering in one system

- ▶ Reduced disposal costs
- ▶ Low investment costs
- ▶ Over 90% separation efficiency of grain size  $> 0.2\text{mm}$
- ▶ Reduction of organic content to  $< 5\%$
- ▶ Also suitable for classified grit trap material from biogas plants

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## Design and function

### Classifying and washing in one system

The Grit Washer RoSF G4E combines continuous separation and washout of contaminated grit trap material in one plant.

### Grit classifying

Sediments from the grit trap are introduced in the upper part of the plant as a mixture of grit, organics and water. Due to the low surface overflow rate virtually all particles are separated and accumulate in the bottom part of the tank.

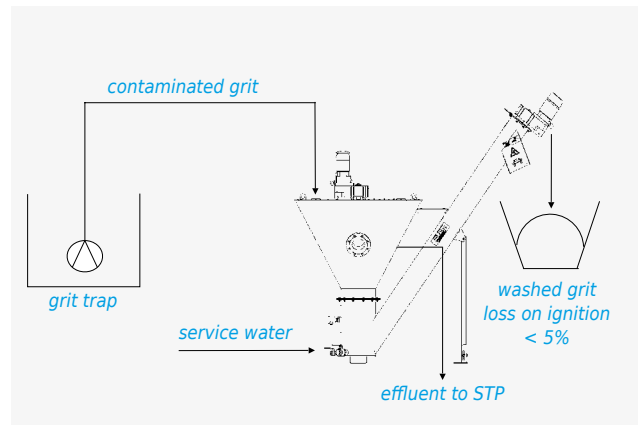
### Grit washing

Due to the introduction of service water in combination with a slowly rotating circulation system the lighter organic particles can easily be separated from the dense mineral particles in the bottom part of the tank. After removal of the organic material the clean grit is auto-matically removed by a screw conveyor, at the same time statically dewatered, and discharged into a container.

The removed organics are continuously discharged with the introduced wash water.

## The user's benefits

- ▶ Reduced disposal costs
- ▶ Reduced water consumption below 2m<sup>3</sup>/h
- ▶ Surface overflow rate < 25m/h
- ▶ 90% separation efficiency of grain size  $\geq 0.2\text{mm}$
- ▶ Reduction of organic content to  $\leq 5\%$
- ▶ Dry residue in washed grit  $\geq 90\%$
- ▶ Screened wastewater can be used as wash water
- ▶ Two plant sizes available (8l/s and 16l/s throughput)
- ▶ Optionally available as a classifier with wash function
- ▶ Also suitable for classified grit trap material from biogas plants



Process diagram.



Grit washer installation on a municipal sewage treatment plant.



Special design for the treatment of sediments from biogas plants.

## HUBER SE

Industriepark Erasbach A1 | 92334 Berching

Phone: +49 8462 201-0 | info@huber.de

[www.huber.de](http://www.huber.de)

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