



HUBER Longitudinal Grit Trap ROTAMAT® Ro6

Longitudinal grit trap with grit removal screw

- ▶ Designed in accordance with DWA standards or customised design
- ▶ Available with or without aeration
- ▶ Optional separate grease chamber with automatic grease removal
- ▶ Manufactured entirely in stainless steel

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Design and function

1. General

Grit separation from wastewater will prevent operational problems, such as grit sedimentation, increased wear, and blockages.

2. Grit separation

The grit trap design and dimensioning are fully compliant with DWA recommendations or according to customer requirements. The grit trap is available as an aerated or unaerated unit. The decision on when to use the aerated or unaerated option is for example the specific ratio between the storm and dry weather flow and if any further grit treatment facilities are installed or planned.

3. Grit removal

The horizontal grit conveyor transports the separated grit particles to the inclined grit removal screw installed within the grit trap. The inclined screw dewateres and discharges the compacted material into a container or a subsequent HUBER Coanda Grit Washer RoSF4 T. Optionally, the material can be pumped to the grit washer.

4. Grease separation and removal

Separation of fats and grease is only available when used with aerated grit channels. The grease is collected in a separate chamber with the partition between the grit trap chamber and grease chamber consisting of a slotted scum board. The flow generated within the grit trap chamber by the aeration system transports the

grease through the slotted scum board into the grease chamber.

Contrary to many competitors' systems, the HUBER Longitudinal Grit Trap ROTAMAT® Ro6 provides forced transport of the grease separated on the water surface within the grease chamber into the grease collection tank. Forced grease transport is ensured by an integral grease removal paddle that consists of a guided scraper which reliably removes the grease layer from the grease chamber. The grease removal paddle further ensures complete grease removal over the full grit trap length preventing a digestion process that would normally be associated with improper grease removal.

Benefits

- ▶ Separation efficiency at $Q_{\max}$: 90 % capture rate of max. grit particle size 0.20 – 0.25 mm (confirmed by the University of Erlangen)
- ▶ Throughput capacity up to 300 l/s (1,080 m³/h)
- ▶ Optional separate grease chamber with automatic grease removal
- ▶ Completely encased unit
- ▶ Installation above ground or below ground
- ▶ Optional integrated grit washing
- ▶ Completely made of stainless steel (including the screws)



Above-ground redundant installation of a HUBER Longitudinal Grit Trap ROTAMAT® Ro6.



Automatic grease removal by means of a paddle system.

Huber Technology Inc.

1009 Airlie Parkway, Denver, NC 28037 USA

Phone: 704-949-1010 | info@hhusa.net

www.huber-technology.com

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