

ROTAMAT®

Longitudinal Grit Trap Ro 6



Longitudinal grit trap with grit removal screw

- Designed accordance with international standards
- Available with or without aeration
- Optional separate grease chamber with semi-automatic grease removal
- Manufactured entirely in stainless steel



►► 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 international standards. The Ro 6 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 optional RoSF4/t 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 plant 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 grit particle size 0.20 – 0.25 mm
- Grit trap design in accordance with international standards
- Throughput capacity up to 220 l/s
- Optional grit trap aeration to improve removed grit quality
- Optional separate grease chamber with semi-automatic grease removal
- Dewatering of grease along with the screenings
- Integrated grit washing
- Optional frost protection
- Above ground or underground installation possible
- Manufactured entirely of stainless steel (including the classifying screw)



Above ground installation of an Ro 6 Grit Trap



Forced grease removal by means of a paddle system

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Subject to technical modification

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