

GRIT SEPARATORS RGS

Grit classifiers



MACHINE DESCRIPTION

Grit classifiers mod. **RGS** are a range of machines designed to separate the sand and grit from the wastewater by settling. They can be equipped with additional features for removing the organic matter from the sand both by means of air injection and spraying clean water.

R.E.M. can supply this type of machines in different models, or in different sizes, according to the needs of the end Customer. We shall now see in detail how they are composed and how they work. The **RGS** model sand extractors are used for:

- SEPARATING AND EXTRACTING SANDS FROM WASTEWATERS OF DIFFERENT NATURE, WITH SUBSEQUENT WASHING OF THE ORGANIC PORTIONS.

The materials from which the sand extractor extracts the sands are:

- Sewage.
- Industrial wastewater.
- Sludges of various kinds (biological, organic, etc.).

The machine has an inlet on the cover of the hopper, this is where the materials to be treated enter; the hopper is used as a sedimentation tank where the solid portions (sands) are deposited on the bottom.

WORKING LOGIC FOR GRIT SEPARATORS RGS

The machine is equipped with a sand and grit removal screw conveyor that, by slowly rotating, moves upwards the deposited sands without any repropagation. From here the extracted sands go up along the trough to the outlet at the top.

The treated liquid portion comes out clarified through a side outlet. At the bottom of the trough is fitted an emergency ball valve, to operate only for maintenance purposes.

Its function is very simple, like all the installation and maintenance operations, which are minimal and fast thanks to its design. Vibrations are minimal as well as the noise emissions.

MAIN FEATURES FOR GRIT SEPARATORS RGS

1. Separation of sands up to a percentage of 90%.
2. Removal of sands with a particle size equal to or even smaller than 200 microns.
3. Treatment of wastewaters with medium flow rates of considerable importance and equivalent capacity of extraction of the sands they contain.
4. Structure of simple construction equipped with a thick screw conveyor, without a pipe, that permits withstanding wear and stresses of different type.

These machines can be requested with different accessories, one of which is the air blower system that, by blowing in air, permits moving the wastewaters in order to avoid stagnation.



n.b.: the manufacturer may modify some dimensions or sizes without prior information

GENERAL DIMENSION DATA FOR GRIT SEPARATORS RGS

INCLINATION: 5°

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RGS MODELS	A - mm	B - mm	C - mm	D - mm	FLOW RATE m³/h	Sand Removal Capacity m³/h
RGS800	4139	1403	1359	955	27	0.4
RGS1500	5477	1937	1831	1197	55	0.7
RGS2500	6572	2360	2233	1211	90	0.7



Materials of construction for fabricated parts: *Stainless Steel AISI304 / *Stainless Steel AISI316

Materials of construction of spiral:

*Stainless Steel AISI304 / *Stainless Steel AISI316 / *High resistance steel HRS

