

ROTAMAT® Disc Thickener RoS 2S



Sewage sludge thickening

- Unique principle of operation
- High-efficiency thickener
- Reliable operation

➤➤ The potentials of sewage sludge thickening

Sludge volume reduction through sludge thickening significantly reduces sewage sludge transport costs. Concentrated sludge is even the basic prerequisite for the efficient operation of digestors and dewatering systems.

The following criteria are decisive for the selection of the most economical thickening process:

- Low operating costs
- Easy operation
- Reliable technology

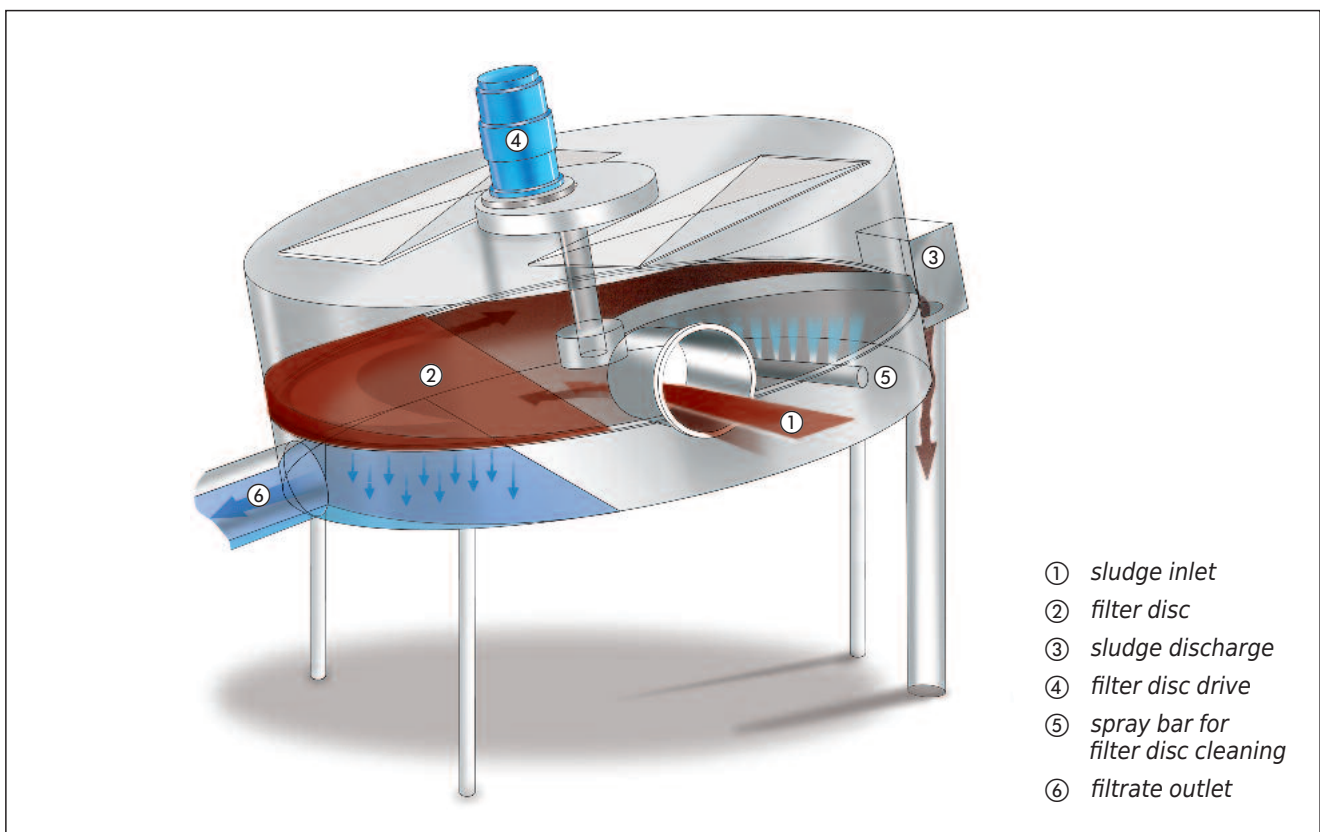


Mobile ROTAMAT® Disc Thickener RoS 2S for sludge volume reduction to save storage capacity

➤➤ Design and function of the ROTAMAT® Disc Thickener RoS 2S

The heart of the ROTAMAT® Disc Thickener RoS 2S is an inclined, slowly rotating filter disc that separates flocculated sludge from filtrate. A baffle plate distributes the inflow evenly across the entire filter radius. Flexibly supported plows divide and move the sludge layer on the disc and open up furrows so that water can easily

drain through the filter cloth, thus enhancing the filtration effect. As the filter disc continuously rotates, a scraper pushes the thickened sludge from the disc. The filter cloth is backwashed with a spray bar.



Graphic drawing of a ROTAMAT® Disc Thickener RoS 2S

➤➤ The benefits of the ROTAMAT® Disc Thickener RoS 2S

Low operation costs

as a result of excellent system performance and easy system operation:

- Sludge volume reduction > 85 %
- Typical thickening results > 6 %
- Low polymer consumption
- Specific power consumption < 0.03 kW/m³
- Minimum operator attendance requirements of less than 10 minutes a day
- Wash water demand < 5 % of sludge throughput
- Wash water pressure < 3 bar

Easy to operate

due to the unique, highly efficient principle of operation combined with a modular design:

- Flocculation, thickening degree and thick sludge transport can be adjusted separately.
- Easy to optimise process
- Possibility to watch the filtration process inside the completely encapsulated unit
- Simple automatic control technology
- Suitable for unattended operation over 24 hours per day

Reliable operation

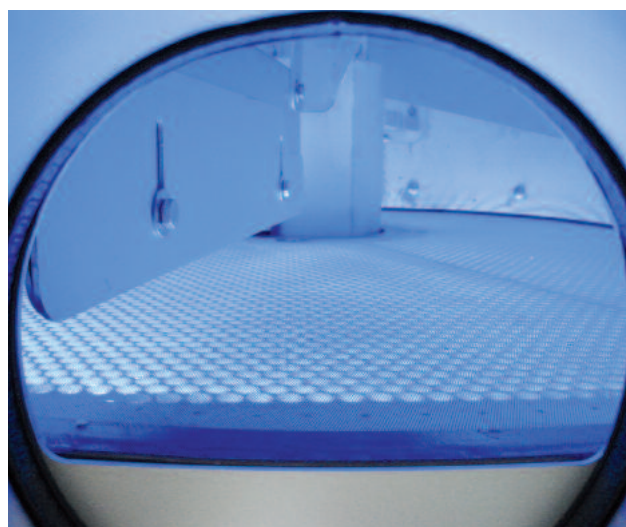
- Robust design
- Stainless steel filter cloth for long life
- Slow filter rotation < 5 rpm
- Low maintenance
- No need for lubrication
- Easy to operate and maintain
- Proven in hundreds of installations



Stationary installation of a ROTAMAT® Disc Thickener RoS 2S size 2



ROTAMAT® Disc Thickener RoS 2S designed for 35 m³/h



Wear-resistant stainless steel filter cloth

➤➤ Special applications

Specific installation conditions

As 80 % of the filter surface of the ROTAMAT® Disc Thickener RoS 2S are permanently used, a very compact and small machine design is possible.

- Minimal space requirements for installation
- Ideal as mobile installation
- Easy container installation
- Easy retrofitting
- No need for foundations or service platforms
- Variable inlet and outlet arrangement



Mobile ROTAMAT® Disc Thickener RoS 2S mounted on a car trailer

Efficient use of water

The ROTAMAT® Disc Thickener RoS 2S needs little wash water at a very low pressure anyway but the need for adding external wash water can completely be eliminated by using filtrate for filter cleaning.

- Saving water resources
- Reducing the load on local water treatment facilities
- Reducing operation costs
- Hydraulic load reduction
- Virtually no additional demand for electrical energy for pressure increase



Two units installed in confined space

➤➤ Available ROTAMAT® Disc Thickener RoS 2S sizes

Size	Throughput capacity [m ³ /h]	Drive capacity [kW]
1	20	0.55
2	40	0.75



Filter cleaning without any external wash water

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