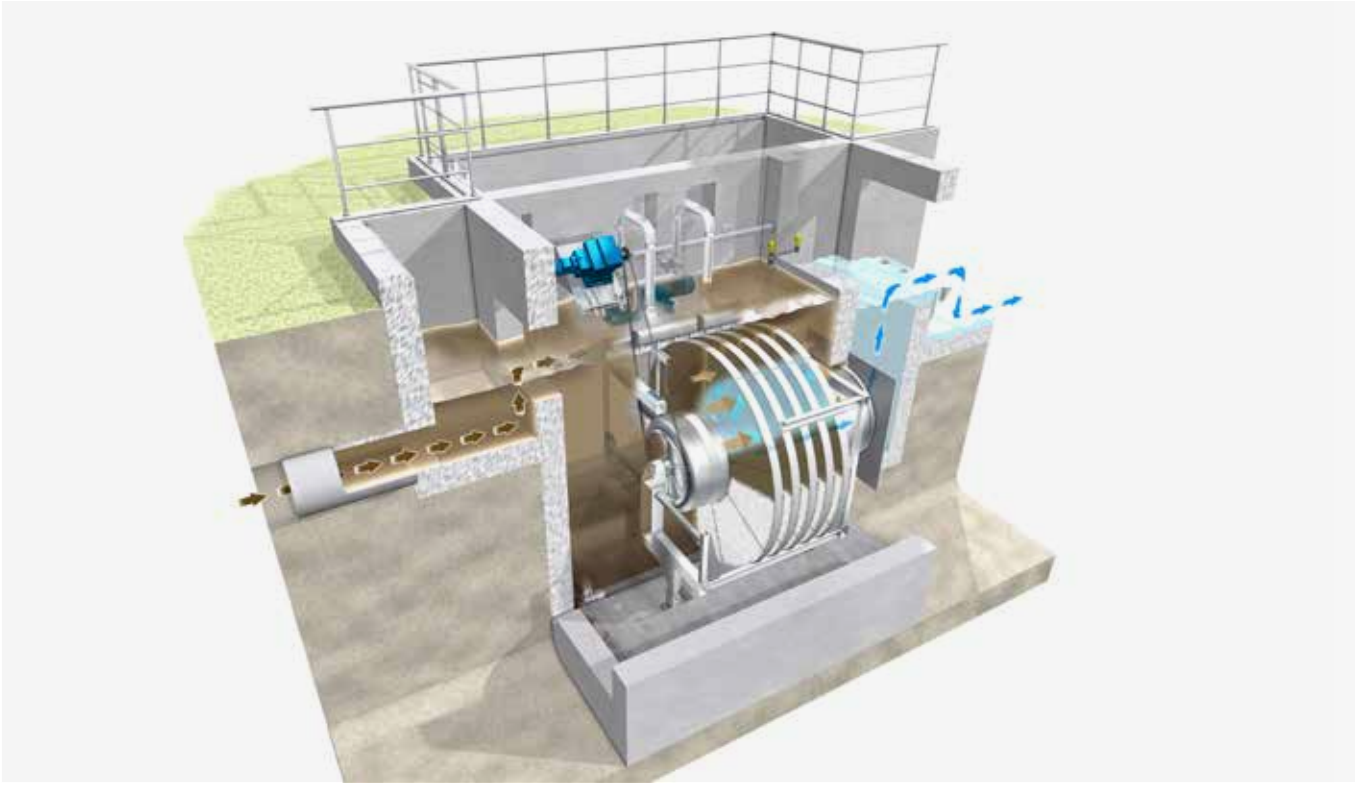
HUBER
TECHNOLOGY
WASTE WATER Solutions



HUBER
Pile Cloth Media Filter RotaFilt®

- Reliable separation of fine suspended solids (sludge flocs, microplastics)
- Ideal for phosphorus removal (flocculation filtration)
- Reliable retention of powdered activated carbon (PAC) for removal of trace substances
- Efficient prefiltration to protect ozonation and GAC adsorption systems for trace substance removal

More information, downloads and current news

www.huber.de

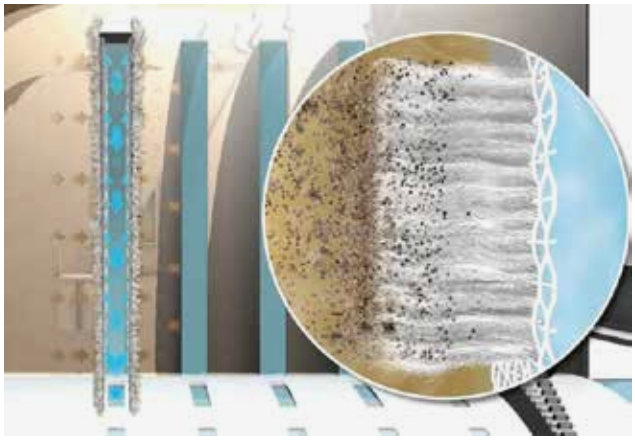
Design and function:

The HUBER Pile Cloth Media Filter RotaFilt® consists of several rotatably arranged, disc-shaped filter elements. These are installed vertically and fitted with special filter bags made of innovative pile cloth. The pile cloth has a multi-dimensional structure and consists of a filter-active pile cloth layer and a supporting mesh.

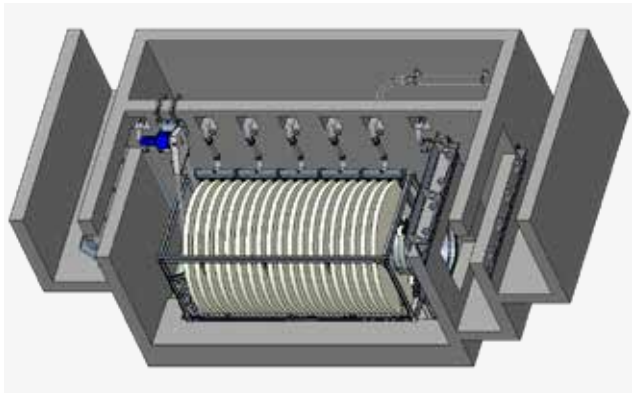
The wastewater that enters the filter chamber flows continuously through the individual filter discs from the outside to the inside. Particulate matter is reliably retained in the pile cloth structure.

Due to the retention of solids, the filter resistance increases and the difference between the water levels on the wastewater and clear water side rises. At a certain pressure loss, the gradual cleaning of the filter discs begins. During this process, retained solids are reliably and effectively removed from the rotating filter elements via suction bars.

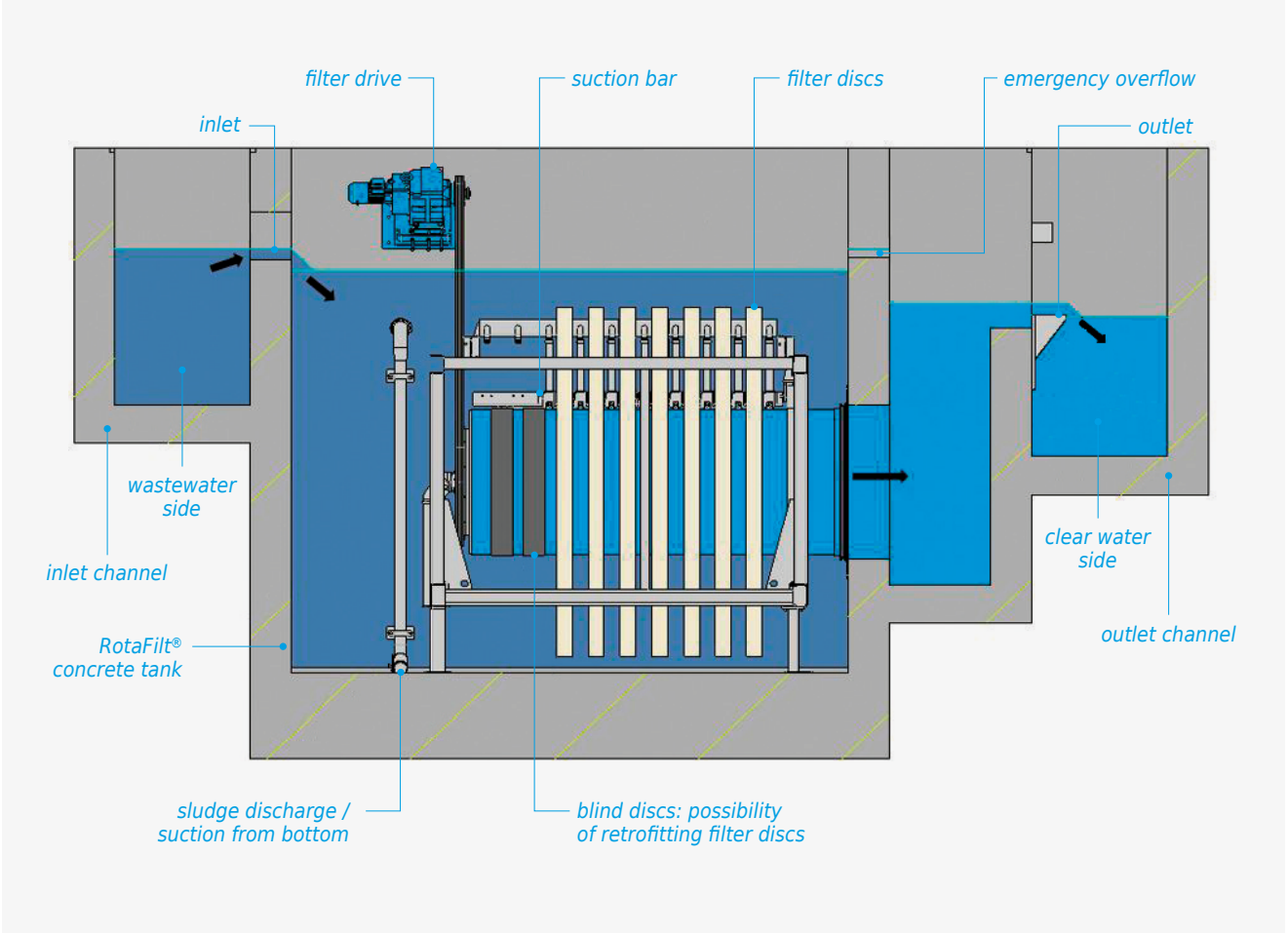
The round filter discs ensure that no dead zones are created during the cleaning process. In order to prevent the basin from silting up, the settled sludge at the bottom of the basin is sucked out at regular intervals.



Filtration process on the pile fabric filter bags.



Filtration chamber with HUBER Pile Cloth Media Filter RotaFilt®.

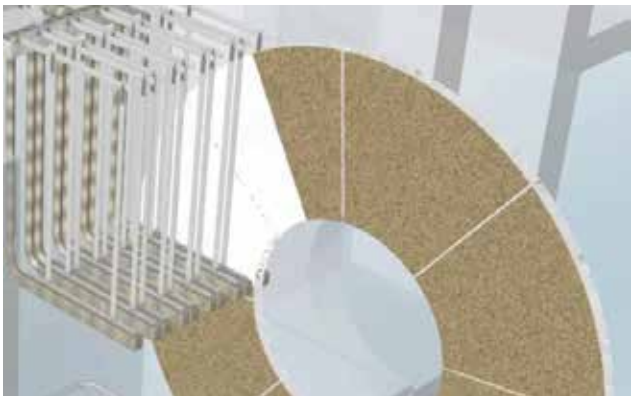


Functional principle of the HUBER Pile Cloth Media Filter RotaFilt®.

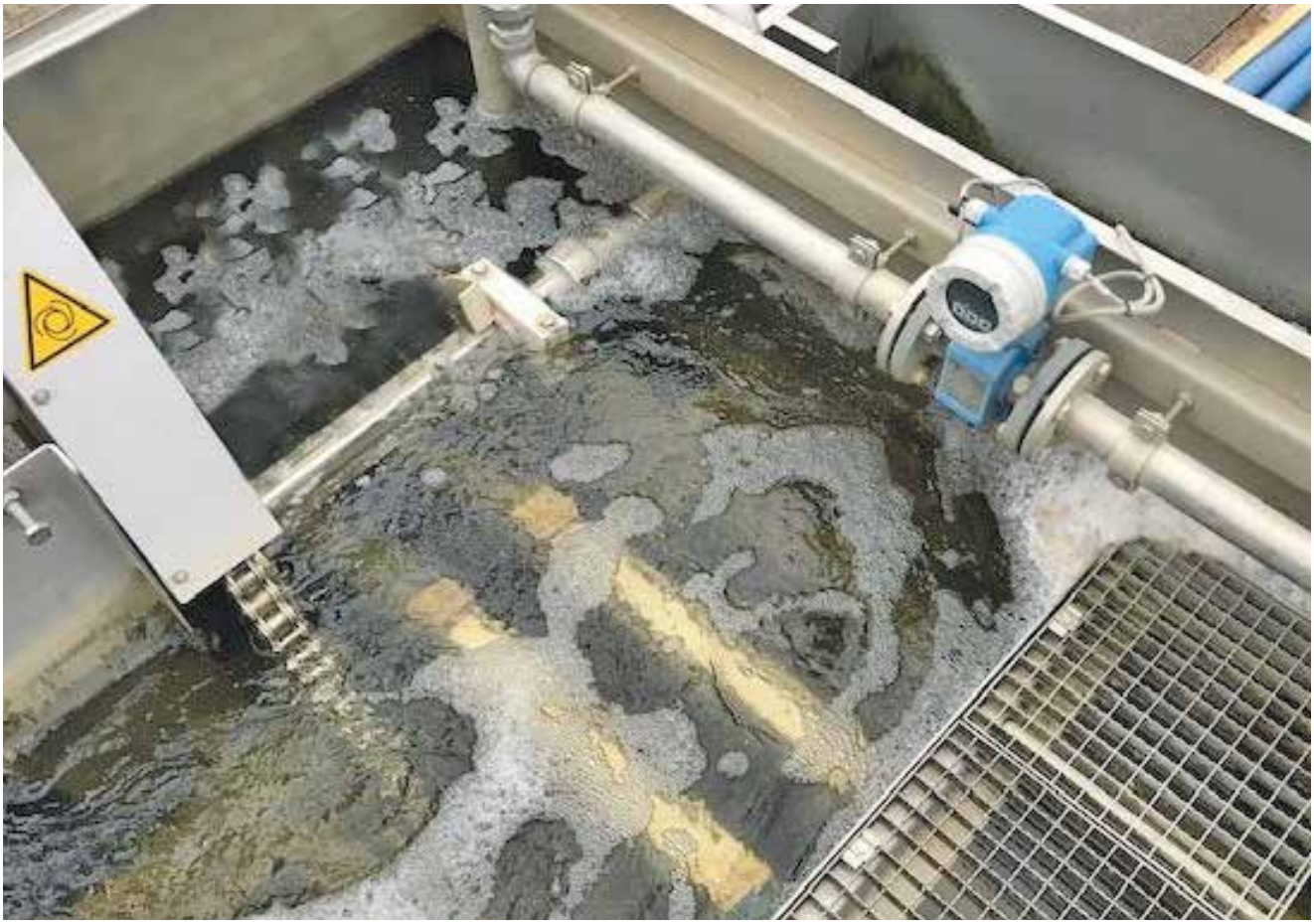
Individual customer benefit from HUBER Pile Cloth Media Filter RotaFilt®:

- Optionally one or more suction pumps.
- Suction pumps installed wet or dry.
- Increased effective filter area due to circular arc geometry on inner and outer diameter.
- Complete cleaning of the filter discs, no dead zones.
- Maximised free filter area and minimal disc weight due to the innovative honeycomb structure of the filter elements.
- Cost advantages due to optimised disc diameter.
- Quick and user-friendly installation and removal of filter bags and filter elements.
- Easy installation and removal of the suction modules.

Filter element in a HUBER Pile Cloth Media Filter RotaFilt®.



Filter cleaning process in a HUBER Pile Cloth Media Filter RotaFilt®.



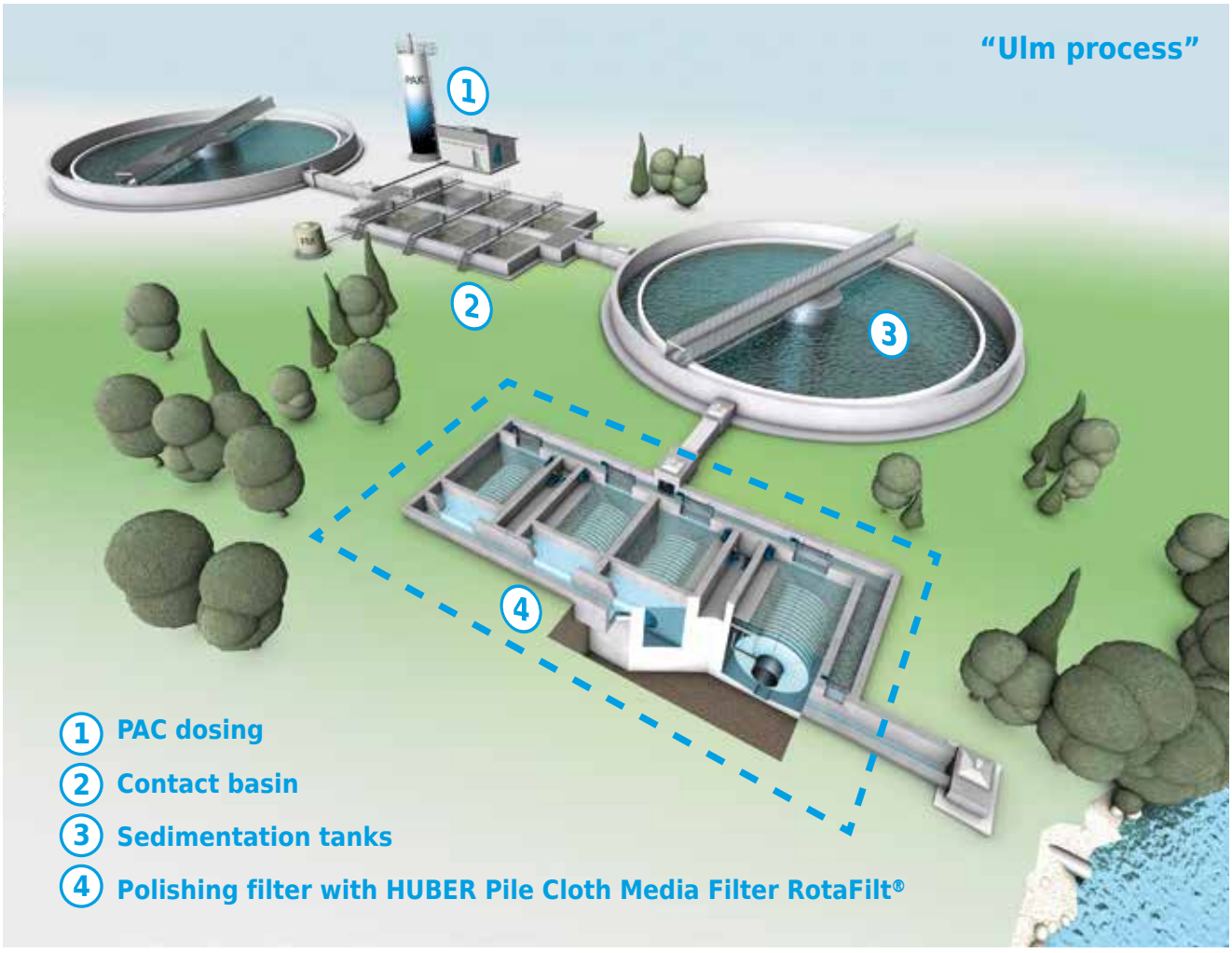
HUBER Pile Cloth Media Filter RotaFilt® in operation.

Many advantages through microfiltration with pile cloth:

- High separation efficiency combined with high hydraulic capacity.
- Insensitive to sudden peak loads.
- High operational reliability, even under overload.
- No separate rinsing water required.
- Continuous operation (no interruptions for cleaning).
- Low pressure loss during operation (5 – 30 mbar, hydrostatic filtration possible without lifting).
- Minimal system footprint.
- Minimised operating and energy costs.

Technical data:

- Available disc diameters: 2,200 mm and 2,700 mm.
- RotaFilt® 2,200 is available as a basin or tank version.
- All metallic parts made of stainless steel, acid treated in a pickling bath.
- Disc support segments made of high-quality plastic with optimised free surface; uncomplicated replacement of segments and pile cloth media bags.
- The right type of pile cloth media for every application.



PAC process (“Ulm process”) with downstream HUBER Pile Cloth Media Filter RotaFilt® as polishing filter.

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