HUBER Drum Screen LIQUID

Reliable fine screening with maximum separation efficiency

- **Maximum retention of fibres and hair**
- **Operating reliability for membrane bioreactors**
- **Maximum COD / BOD_5 reduction rates**

The HUBER Drum Screen LIQUID is available in different designs and suitable for numerous applications of solids-liquid separation. Depending on the specific application requirements the horizontal drum is covered with a **mesh**, **wedge wire** or **perforated plate** and is suitable for channel or tank installation.

Design and Function

The characteristic feature of the HUBER Drum Screen LIQUID is its screen basket which is horizontally installed in the channel or in a tank. The wastewater to be treated flows through the basket from inside to outside. Whilst the wastewater flows through the open front into the screen basket, solids are retained within the drum. A special sealing between the channel and the front-end screen basket opening prevents unscreened wastewater from passing through the screen basket.

The solids settling on the drum surface lead to gradual blinding of the surface. As a result, the water level upstream of the screen rises. When the predefined maximum water level has been reached, the screen basket starts to rotate around its axis to clean its surface. At its crown a spray nozzle bar sprays water onto the drum surface from outside to remove the solids and flush them into a trough inside the drum basket from where the screenings are discharged by gravity.

Model variations

Drum Screen LIQUID ww: wedge wire

- Wedge wire sizes 0.5 / 1 / 2 / 3 mm
- Solids retention up to 10,000 m^3/h per machine
- Typical applications: Mechanical pretreatment on sewage treatment plants, industrial solids-liquid separation

Drum Screen LIQUID pp: perforated plate

- Perforations 1.5 / 2 / 3 mm
- High separation efficiency and retention of fibres and hair
- Typical applications: Protection of membrane filtration plants

Drum Screen LIQUID star: folded perforated plate

- Perforations 1 / 1.5 / 2 mm
- Increased screen surface for higher throughputs, high separation efficiency and retention of fibres and hair
- Typical applications: Protection of membrane filtration plants

Drum Screen LIQUID mesh: fine mesh fabric

- Mesh sizes from 0.2 up to 0.75 mm
- Maximum separation efficiency and reduction of COD and BOD by 20 – 40%
- Typical applications: Load reduction in the preliminary treatment stage, replacement for primary settlement tank, sea and river outfall applications

Benefits

THE BENEFITS OF THE HUBER DRUM SCREEN LIQUID ARE OBVIOUS

- high throughput capacity – maximum separation efficiency
- easy maintenance
- low operation costs
- low life-cycle costs
- optional high pressure cleaning reduces maintenance requirements
- for channel or tank installation
- various possible applications
- maximum corrosion protection through stainless steel design and acid treatment in a pickling bath

A TAILORED SOLUTION TO SUIT ANY APPLICATION

- industrial and municipal applications
- primary and secondary treatment stage
- protection of membrane plants
- replacement for primary settlement tank
- load reduction in the biological treatment system through reduction of COD / BOD/ AFS
- screening in the inlet to power plants
- treatment of cooling water circuits
- brewery wastewater
- river and sea outfall
- surface and river water screening

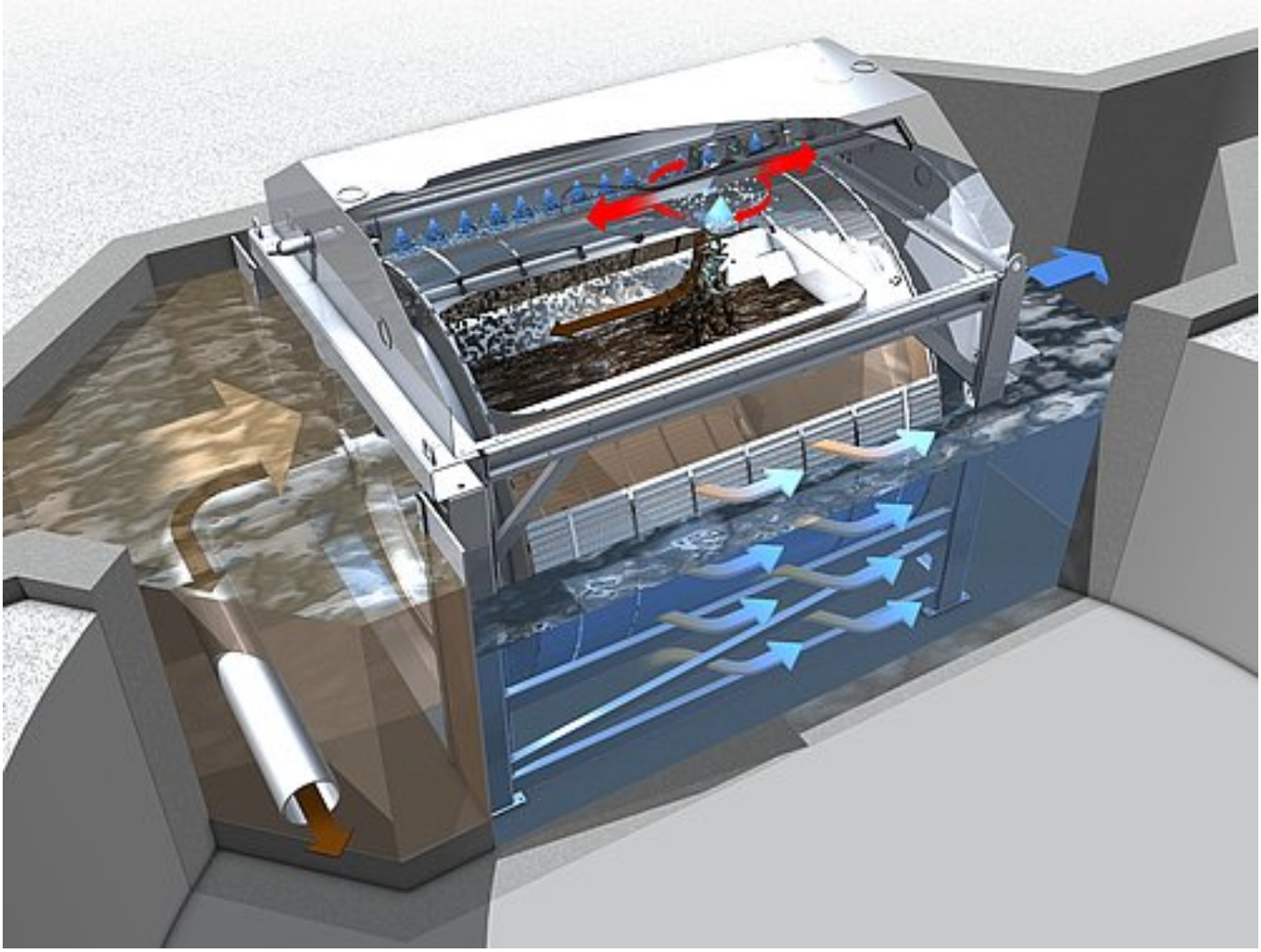
Downloads

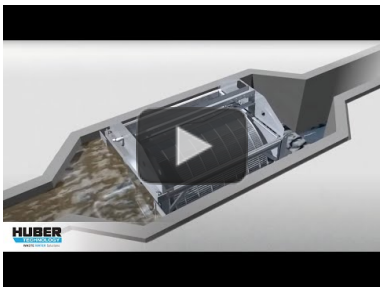
Brochure: HUBER Drum Screen LIQUID [pdf, 644 KB]

Case Studies

- Implementation of economically efficient septic tank systems in the range of 10,000 to 20,000 p.e.
- HUBER Drum Screen LIQUID - innovative overall process succeeds in Norway
- Busy - the mobile plants with HUBER Drum Screen LIQUID help in planning and operation
- HUBER supplies a process system as replacement for the primary settling tank
- Carbon removal with HUBER fine screening technology – a success story
- New product HUBER Drum Screen LIQUID: Increasing requirements need adapted solutions
- Mechanical wastewater pre-treatment for membrane bioreactors

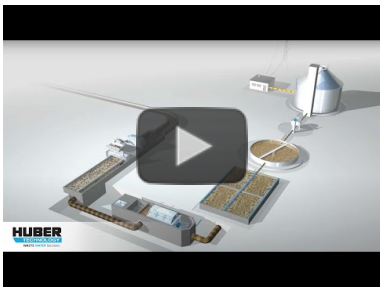
Design Sketch





Animation: HUBER Drum Screen LIQUID

https://www.youtube.com/watch?v=v-GIfMcQ_nw



Animation: HUBER CarbonWin® Process

https://www.youtube.com/watch?v=60SHSH7XwTg

Video: Complete wastewater treatment at the Øygarden WWTP in Norway

https://www.youtube.com/watch?v=KU2awn3DP68

More products of this group: Ultra Fine Screens

- HUBER Membrane Screen ROTAMAT® RoMem
- HUBER Drum Screen RoMesh®
- HUBER Disc Filter RoDisc®

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