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Estação de Flotação por Ar Dissolvido HUBER HDF



Wastewater treatment, product recovery and process water treatment through flotation with micro bubbles.

Process water is needed in many production processes as a solvent, for production of material, or for cleaning purposes. Water is recirculated and reused for economical and environmental reasons. Grease, oil, fat, floating and suspended solids, settling material, and dissolved components need to be separated to provide good and uniform water quality. Recovery of valuable product from the water may be another additional objective. In addition, clogging and excessive wear of pipelines and other associated equipment is prevented, which increases the operating reliability of the production plant.

Where used process water is discharged as wastewater, pre-treatment is often required to prevent toxic or otherwise harmful substances from entering the sewer system and reduce thus surcharges and fees. Conventional gravity clarifiers are often incapable to achieve sufficient pre-treatment. Various types of flotation processes have been developed, whereof dissolved air flotation with pressure water recirculation has proven most effective.

The HUBER Dissolved Air Flotation Plant provides a significantly improved flotation process with a special inlet structure that provides optimum control of the flow within the flotation tank.

HUBER Dissolved Air Flotation Plants are successfully operated for a wide variety of industrial and municipal applications, such as:

- Slaughterhouses
- Meat processing and packing
- Fish processing
- Cosmetics industry
- Textile industry

- Dairies
- Convenience food production
- Margarine production
- Oil and fat refineries
- Canneries
- Industrial kitchens and canteens
- Fast food providers
- Soap works
- Chemical industry
- Petrochemical industry
- Iron and steel industry
- Metal processing
- Galvanizing, electroplating
- Land remediation
- Waste management
- Municipal wastewater treatment

Benefícios

ADVANTAGES OF THE HUBER DISSOLVED AIR FLOTATION PLANT

- completely made of stainless steel (1.4571)
- with optional chemical treatment stage - increased separation efficiency
- Standardized sizes for different applications
- Compact design, small footprint
- Simple pressure release principle by means of a single valve for maximum operating reliability
- Efficient, gentle mixing of the air bubbles into the wastewater flow
- Defined tank flow due to the optimal design of the blending and feeder construction in the flotation tank
- Large effective clarifier area due to the lamella separator, minimized risk of blocking due to suitably dimensioned gaps between the lamella plates
- Generation of saturated pressure water with a multi-stage pump which is not subject to the pressure tank regulation
- Experience from hundreds of installations in a variety of fields of application

Detalhes

SYSTEM APPROACH

We provide complete systems for mechanical-physical water treatment by combining the HUBER HDF with other HUBER components:

- **Chemical pre-treatment** by precipitation, neutralization and flocculation in a tube reactor to improve separation efficiencies, and even remove some dissolved pollutants
- **Mechanical pre-treatment** with
 - ROTAMAT® Micro Strainer Ro 9, or
 - ROTAMAT® Rotary Drum Fine Screen Ro 2, or
 - ROTAMAT® Complete Plant Ro 5
- **Treatment of the removed scum and sediment :**
 - Sludge thickening with ROTAMAT® Rotary Screw Thickener RoS 2 and
 - Sludge dewatering with ROTAMAT® Screw Press RoS 3
- **Complete wastewater treatment:**
 - Additional biological treatment with HUBER VRM® Membrane Bioreactor (-> direct discharge).
 - Tertiary filtration with HUBER CONTIFLOW® CFSF

Relatórios práticos

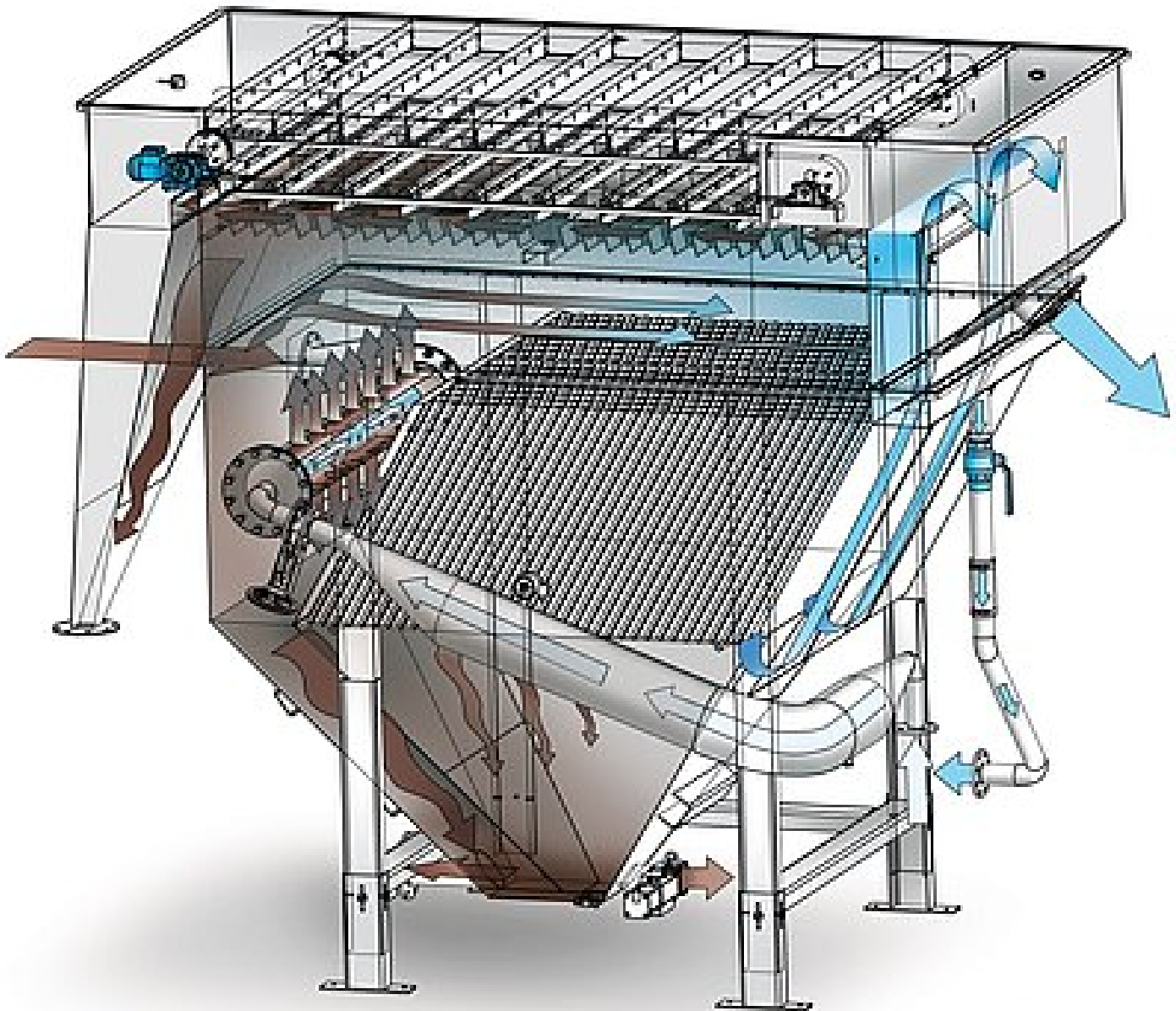
- [Clear Solutions: Navigating Wastewater Challenges with Dissolved Air Flotation in condiment production](#)
- [HUBER applications in poultry slaughterhouse SÜddeutsche Truthahn AG](#)
- [Wastewater Treatment in the Dairy Industry – Development of customized solutions for direct and indirect discharge](#)
- [Intelligent chemicals dosing reduces operating costs for flotation plants](#)

- Flotation for biomass separation replacing secondary settling tanks and secondary treatment systems
- HUBER flotation plant and screw press are a great help with the apple harvest in Serbia
- Fresh water savings in breweries: HUBER SE develops innovative process chain with Bavarian project partners
- New machine to dewater fermentation residues in dry fermentation
- New plant in Switzerland for innovative sewer grit treatment with process water recycling

Downloads

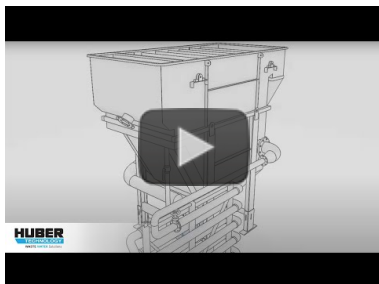
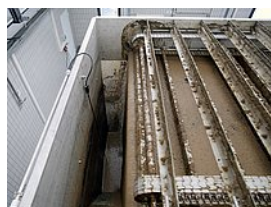
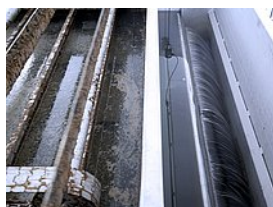
 [Brochure: HUBER Dissolved Air Flotation Plant HDF](#) [pdf, 0.99 MB]

Projeto Principal



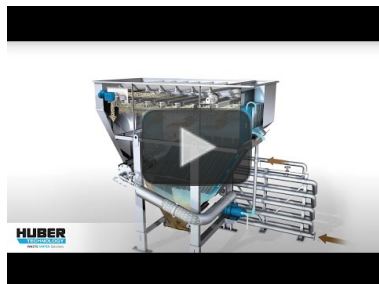
Media





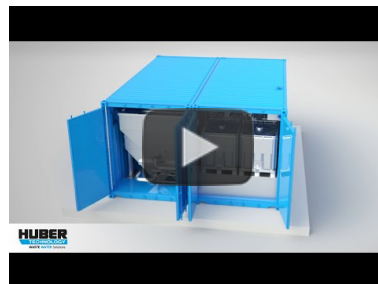
Animation: HUBER Dissolved Air Flotation Plant HDF

<https://www.youtube.com/watch?v=exZb8jk7Ils>



Chemical-physical waste water treatment

<https://www.youtube.com/watch?v=LtqL1IjI0M>



Animation: HUBER Flotation Plants in Container Design

<https://www.youtube.com/watch?v=eW4aFe65YZI>



Video: Dissolved Air Flotation for wastewater treatment in a dairy

<https://www.youtube.com/watch?v=HkqDkDsi070>



Video: Video: HUBER Dissolved Air Flotation HDF in meat processing industry

<https://www.youtube.com/watch?v=HvwV0BaLd68>



Video: HUBER Dissolved Air Flotation Plant HDF in a grit treatment process

<https://www.youtube.com/watch?v=nNstEvZA-24>

HUBER DO BRASIL SOLUÇÕES EM TRATAMENTO DE ÁGUA E EFLUENTES LTDA

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