

HUBER CarbonWin[®] System

An Innovative Alternative to Primary Clarifiers

Name	
Position HUBER SE	





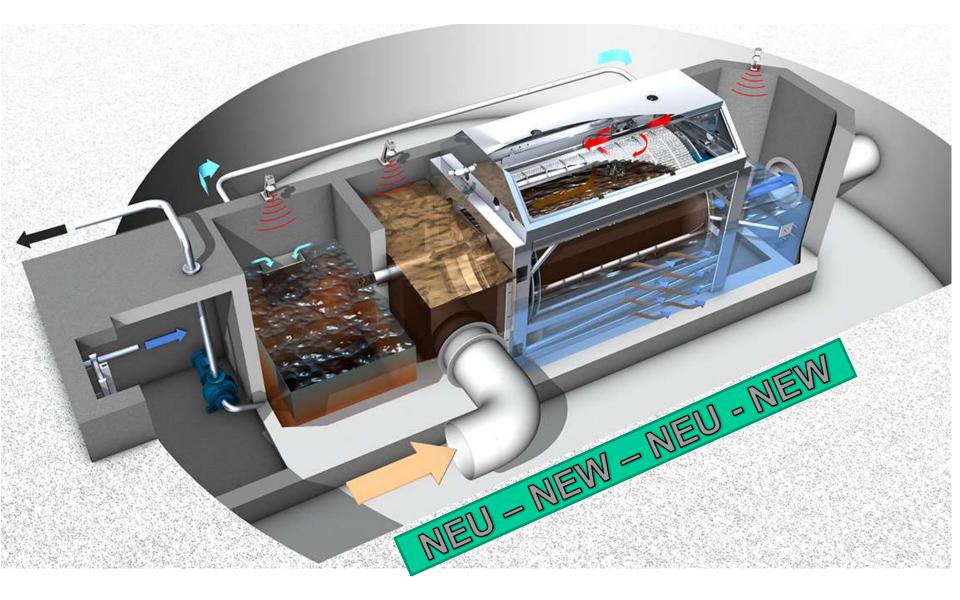
HUBER Experience in that Field:

- More than 4500 units of very fine screens installed worldwide
- Since January 1993 Fine Screening Applications available (Ro2 with 1 mm wedge wire sieve)
- Market leader for MBR Screening







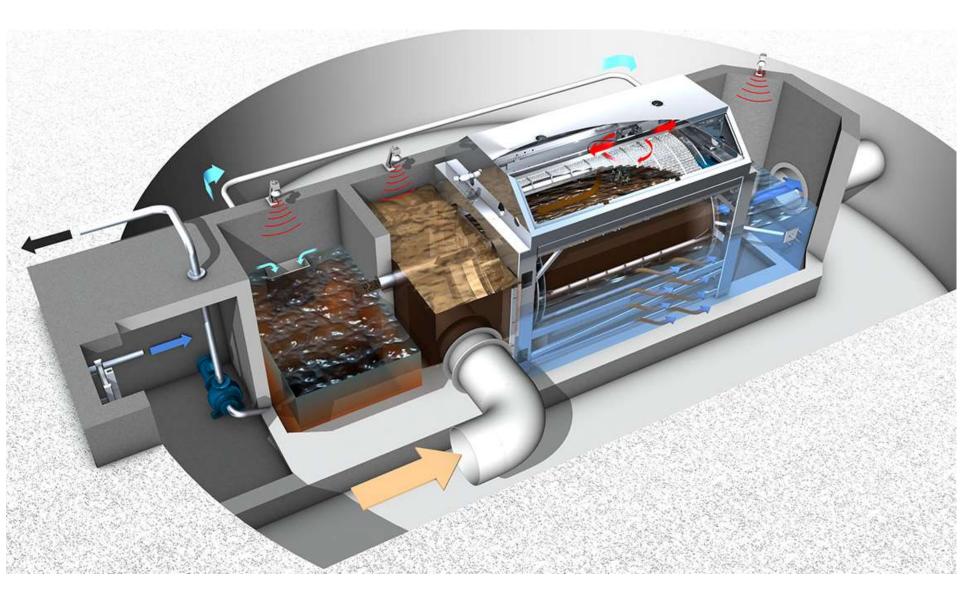




Why such an New Technology?

- Population increase leading to overloaded Wastewater Treatment Plants
- Space limitation and increased cost of land
- Upgrade of WWTPs within existing boundaries
- Change from aerobic to anaerobic sludge process
- Wish for an increased gas yield for a better energy balance and management of the WWTPs

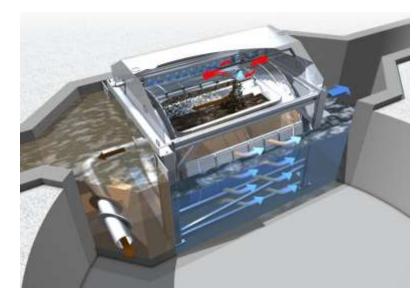






Basic Technical Features

- Throughput up to ~280 I/s (for primary clarifier)
- Stainless Steel AISI 304 or 316
- Drum diameter 1300, 1600 and 2200
- Drum length up to 4000 mm
- Various screening options
- > Channel or tank mounted











Basic Technical Features

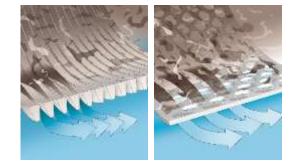
Screening Options:

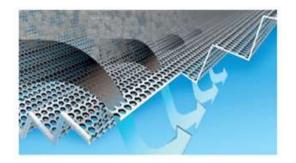
- ➢ Wedge Wire: 0.5 / 1 / 2 / 3 mm
- Perforation: 1.5 / 2 / 3 mm

mm

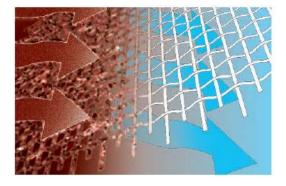
mm

- Star shape perforation: 1.0 / 1.5 / 2
- Plain woven mesh: 0.14 1



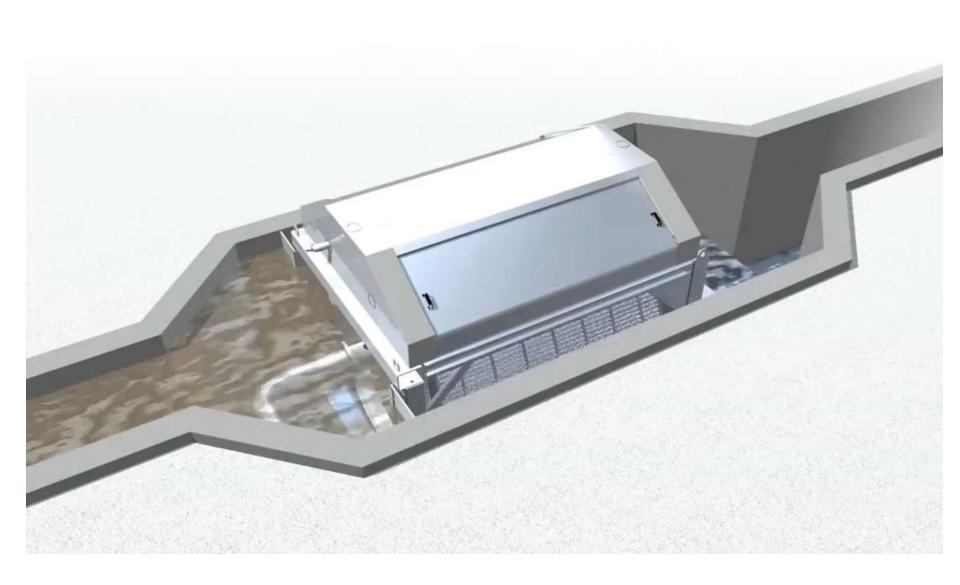


PRIMARY CLARIFIER APPLICATION THE PLAIN WOVEN MESH IS MANDATORY

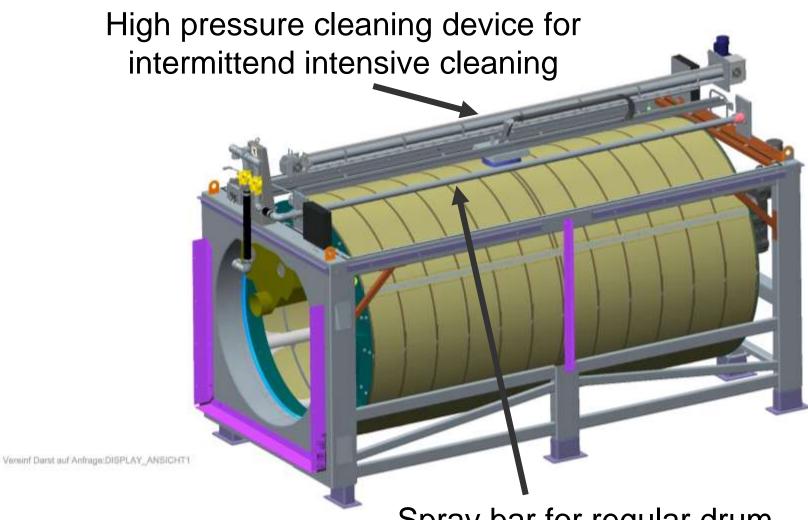


HUBER **DSL LIQUID** – Technical Details









Spray bar for regular drum surface cleaning

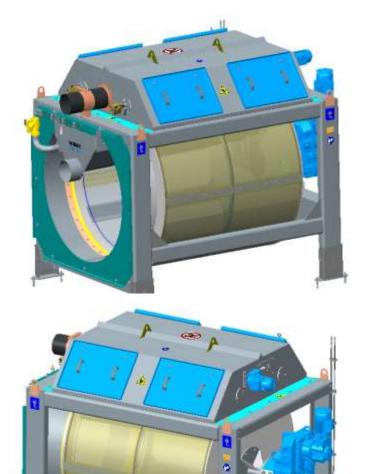
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HUBER **DSL LIQUID** – Technical Details



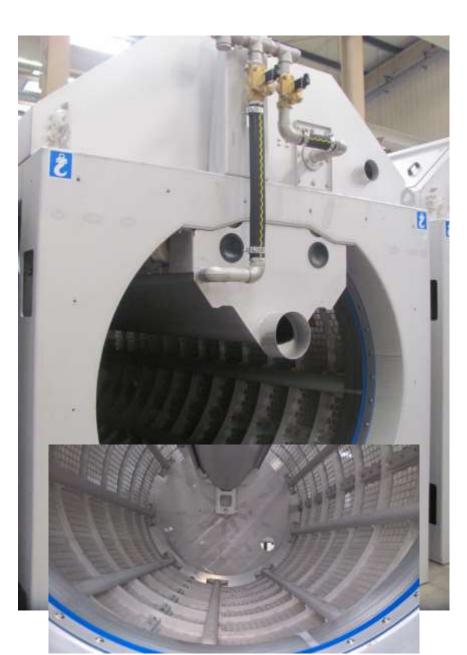






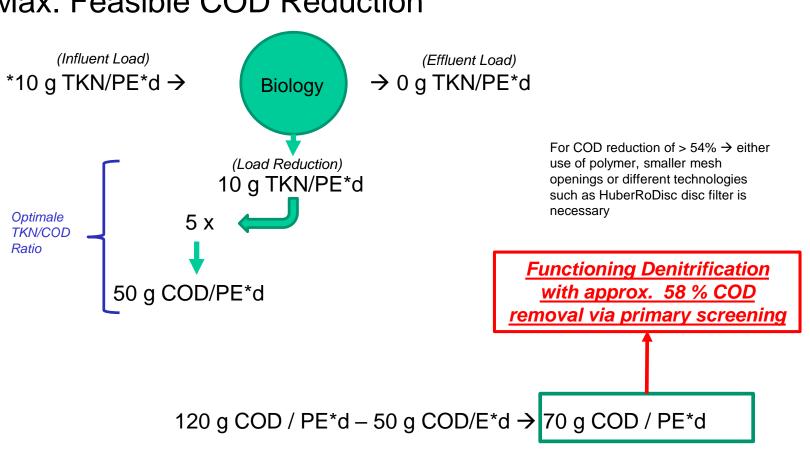
HUBER **DSL LIQUID** – Technical Details







WASTE WATER Solutions



Max. Feasible COD Reduction

*11 g TKN/PE*d -1 g removed by preliminary treatment



- Project: Staßfurt WWTP, Germany
- Application: Replacement Primary Clarifier

Situation:

- > Plant Capacity for 40,000 PE with a rain wheather peak flow of 256 l/s
- > Two hydraulic streams
- COD Inlet value for 46.000 PE, N inlet value for 27.000 PE
- Change from aerobic to anaerobic sludge stabilization

Client / HUBER Approach:

- Side stream treatment of 100 l/s only
- Enabling the refurbishment of the biological streams and to operate on one stream only

HUBER CarbonWin System - CASE STUDIES



Project:

Staßfurt WWTP, Germany



Civil works for flow bypassing to the Drum Screen LIQUID

HUBER CarbonWin System - CASE STUDIES



Project:

Staßfurt WWTP, Germany









Installation Phase Drum Screen LIQUID Mesh: Project Staßfurt

HUBER CarbonWin System - CASE STUDIES



