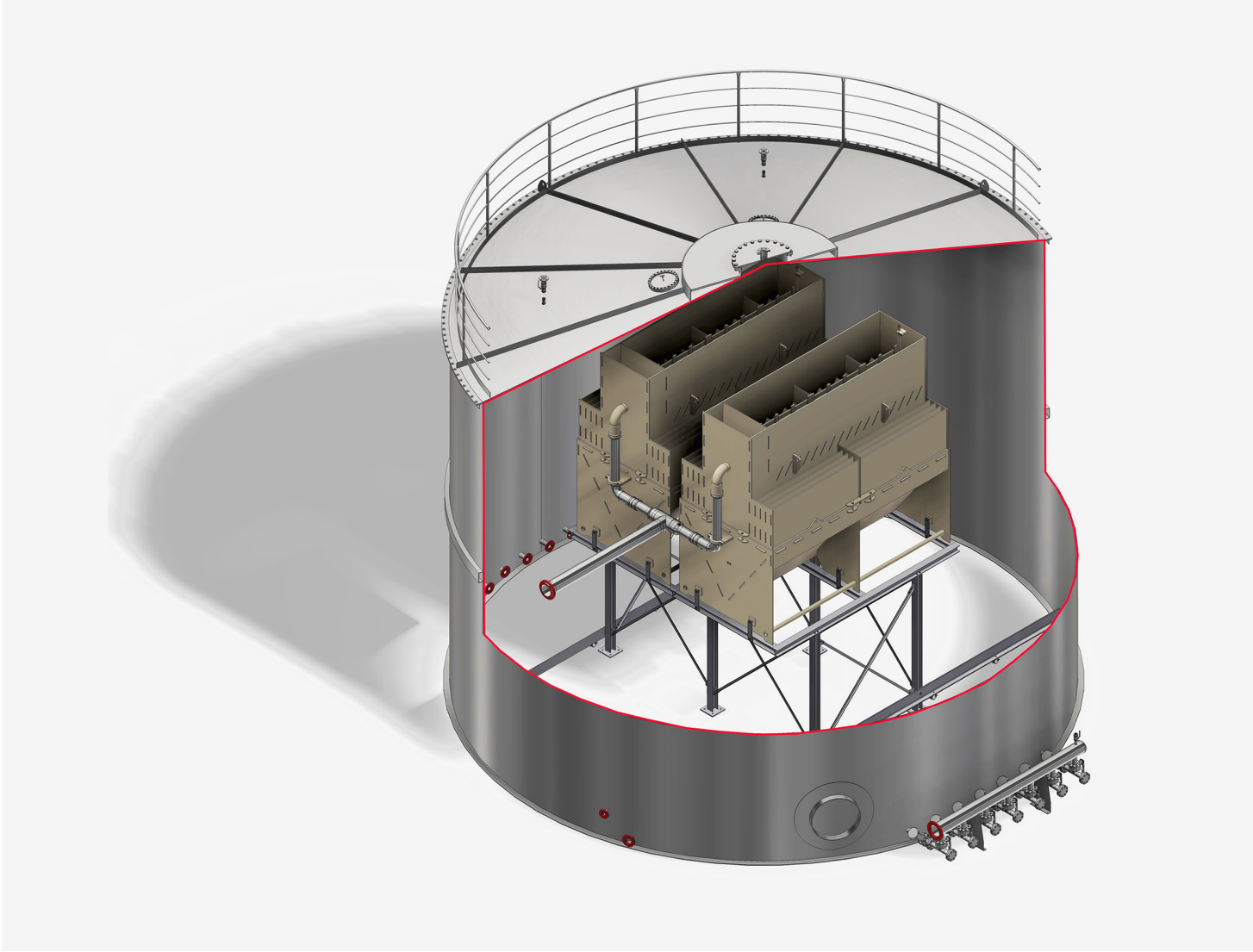
E2E UASB



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E2E UASB

Technology

The E2E UASB (Upflow Anaerobic Sludge Blanket) Reactor is an advanced anaerobic treatment system for industrial and municipal wastewater.
It transforms organic waste into biogas using active granular anaerobic pellets. In the middle of the reactor is a dense bed of anaerobic sludge that breaks down organic material.
Wastewater inflow and external recirculation of clarified water ensures constant hydraulic upflow, and anaerobic digestion occurs. The bacteria decompose organic matter, converting it into biogas (mainly methane and carbon dioxide)
The Rectangular Settler Modules with built in Lamellas work as a high capacity 3-phase gas-water separator, and Biogas flotation device for liquid-solid separation, to retain the anaerobic granular sludge pellets.
The reactor is fully gas tight to prevent odor emissions, corrosion and minimizes sulfur deposits, ensuring long-term reliability and low-maintenance operation

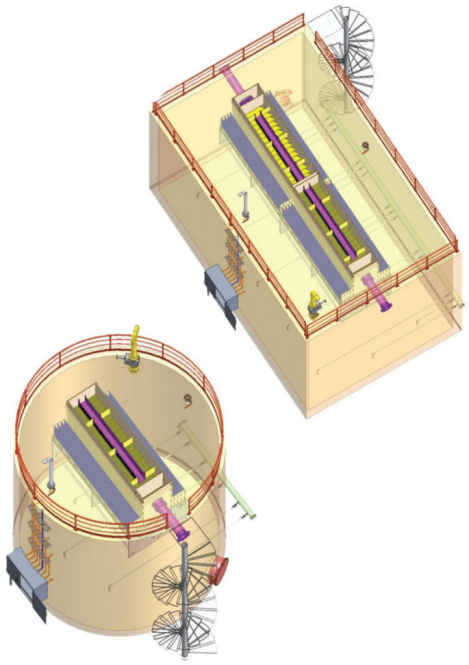
Features

- Advanced UASB technology for industrial and municipal wastewater treatment,
- Rectangular, high capacity, 3-phase gas-water separator Settler Modules with built in Lamellas for best retention of granular sludge pellets
- External recirculation system ensuring constant hydraulic upflow under all conditions, for best mixing of anaerobic granular sludge pellets with waste water to secure best possible COD degradation and Biogas production.
- Efficient biogas collection and transport system from the reactor headspace to the gas treatment pipeline
- Simple rectangular or cylindrical flat-bottom tank design for cost-effective installation

Why to buy

- Cost effective Anaerobic Reactor for Waste Water Treatment in industrial and municipal applications, offering long-term reliability and high performance.
- UASB Installation in existing or new tank configuration, available in circular/rectangular tank design in steel or concrete
- Closed reactor design with optimized anaerobic granular sludge pellets retention, biogas recovery, reducing costs and improving sustainability
- Simple assembly and installation, best OPEX, low maintenance

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Typical & Proven Process

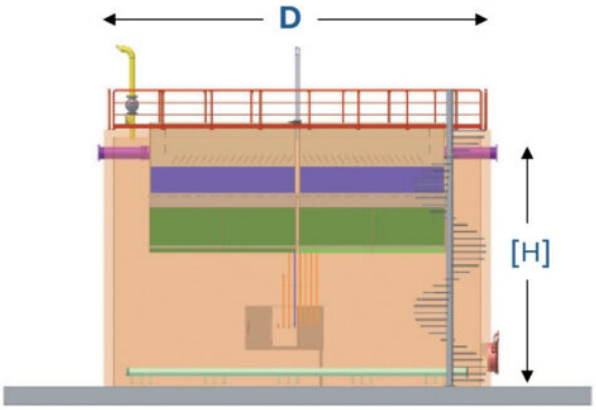
- Anaerobic treatment of industrial wastewater, including paper production (DIP, Virgin), food, and beverage industries (brewery, dairy, sugar, etc.) and municipal applications
- Efficient operation with granular biomass (pellets) for optimized degradation and biogas generation
- Efficient sludge management and sludge growth

See the following Products as well

- E2E Anaerobic Reactor
- R2S Anaerobic Reactor
- Lime Trap
- Gas Flare
- Gas Buffer
- Desulfurization

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Specifications



Technical Data
E2E-UASB Reactor Examples

Circular water height 7 m [H]

Diameter D [m]	Reactor volume [m³]
4.5	110
9.5	500
16.5	1500
30	5000

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