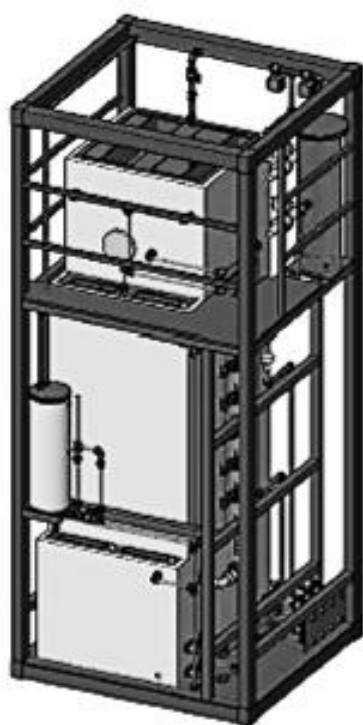


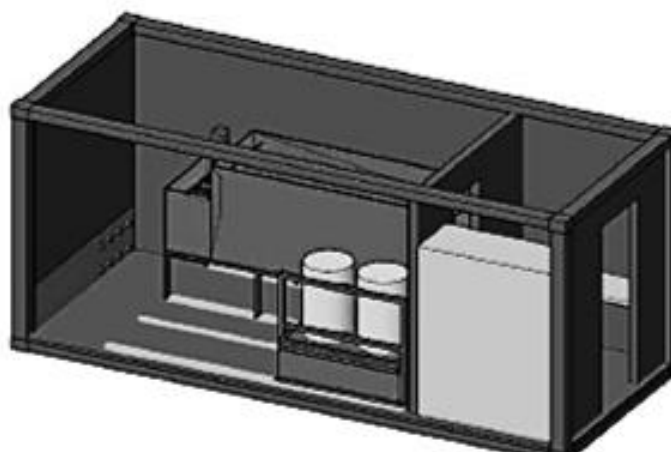


# Pilot: (i)-UASB

*(Integral) Upflow Anaerobic Sludge Blanket*



- *Adaptable to various wastewater streams: protein-, sugar-, COD & fat-rich streams*
- *Feeding without pre-treatment*
- *Realistic full-scale results*
- *Remote controlled*





## Technology

UASB (Upflow Anaerobic Sludge Blanket) is a granular anaerobic wastewater treatment technology for high soluble COD removal. After feeding wastewater at the bottom of the reactor through a sludge blanket, a three-phase-separator at the top of the reactor separates effluent, biomass and biogas. Operational costs are low due to low sludge production and the production of biogas.

## Functionality Pilot

- 3 configurations with or without fat separator can be obtained by changing circulation parameters;
- Designed specifically for testing of fat-rich wastewater degradability;
- Pilot contains 1 reactor skid and 1 equipment & control skid;
- Very wide range of waste streams can be treated: containing COD, fat, proteins, sugars;
- Outdoor temperature range of -30°C to +40°C overcome by trace heating and heat exchanger;
- Remote controlled;
- Pilot by size and technology extremely relevant to full scale applications.

## Specifications influent

- COD range: 1.000 – 12.000 mg/L
- Flow: 100 – 900 L/h
- Temperature: 10 – 35°C

## Specifications Pilot

- 80 - 95% COD removal;
- Maximum biogas flow: 2.000 liter/hour
- Reactor skid: 2,59 x 2,44 x 6,06 m (l<sub>x</sub>w<sub>x</sub>h);
- E&C skid: 6,06 x 2,44 x 2,59 m (l<sub>x</sub>w<sub>x</sub>h);
- Influent buffer, mixing tank, static fat separator, UASB tank, effluent buffer, biogas condenser.



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