



Reliable granular biomass for your anaerobic reactor

Quick supply service by Paques

Carefree managing the anaerobic capacity of your WWT by delivering of a high quality granular biomass from selected reactors.

New anaerobic plants are started by addition of the needed methanogenic activity as granular biomass, harvested from source reactors. Key to the continuity of the process is the retention of the active granules from the effluent.

Wellengineered reactors often have a net biomass growth. However, suboptimal biological or influent conditions can lead to sludge loss or to sludge degeneration. Also, failures lead to decreasing biomass contents for several reactor types. Topping up, re-seeding or even complete renewal of the biomass may be necessary under such circumstances. The biomass supply service of Paques is the solution for your challenge.

The challenge

- New anaerobic reactor
- Start-up
- Decreased sludge blanket level
- Decayed granules
- Increased VFA effluent
- Continuous disintegration of granules
- On-going wash-out of granules from the reactor
- Emergencies
- Sudden biomass loss
- Biomass inactivity

The solution

- Call-off quantities of granular biomass
- Well structured granules
- Sourced from active reactors
- Delivered on-site
- Low-shear handling
- Safe handling without spoils or leaks
- Certificates and transport docs completed
- Suitability check
- Long-term delivery contracts

The benefit

- Reliable start-up planning
- Short down-time
- Quick start-up routine
- On-going stable deliveries
- Matching your waste water type
- Daily information on delivery progress
- Carefree handling on-site and no residual cleaning-up
- Minimum of paper work

Facts and figures

More than 25 years of experience in reliable granular biomass supply | Annual logistics of 5.000 – 10.000 tons Harvesting from well working BIOPAQ®UASB and BIOPAQ®IC reactors | Daily granular biomass analyses in the Paques lab | 150 sources worldwide | Worldwide supplies to over 200 clients | Specialised pump trucks | Certified tank containers | Experienced handling service



How to perform a Paques biomass supply

The anaerobic capacity of your wastewater treatment plant can be carefree managed with the quick biomass supply service of Paques. Paques supplies high quality granular biomass from selected reactors, matching your wastewater type.

Biomass upgrade actions in practice:

- Matching your wastewater type on the basis of historical data
- Availability check
- Pump work at the source and sampling
- Tank truck road transport or tank container forwarding
- On-site pump work
- Evaluation of samples
- Carefree handling on-site and no residual cleaning-up

Paques provides biomass types selected for a combination of critical features. Therefore the Paques laboratory continuously analyses test and delivery samples, adding to our data base.

High quality granular biomass, with the following features:

- high total solids content (8 – 12 wt%)
- highly organic granules (70 – 90 %)
- granule diameters between 0.5~3 mm
- sedimentation velocity of 50~150 m/h
- shiny black granules and rigid
- methanogenic activity ranging between 0,5 – 1,0 kg COD/kg organic matter /day

Paques biomass deliveries are optimised by years of experience, from handling safety on-site to preserving the integrity of the granular biomass. More and more owners of an anaerobic WWT contact Paques if in need for extra granular biomass!



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