

Digelis™ Fast

optimized process for thermophilic sludge digestion

O biosolids



reduce the footprint of your digesters without increasing the energy consumption

o performance

digestion kinetics two times faster than in mesophilic conditions

o savings

a very competitive CAPEX

innovation

the use of thermophilic technology combined with energy recovery equipment to accelerate the sludge digestion cycle by controlling your energy consumption

Capable of accepting high loads and providing shorter contact time for the sludge and smaller reactor size, the Digelis[™] Fast workshop operates on the principle of thermophilic anaerobic digestion that accelerates the sludge digestion cycle. A unique feature is that it has an integrated energy recuperator at the reactor outlet to avoid any energy over-consumption.

key figure



thermophilic digestion to 55°C





Digelis™ technology . . .

Within the Digelis[™] range dedicated to the digestion of wastewater sludge, Digelis[™] Fast combines all advantages of thermophilic digestion (compactness, rapidity of digestion, destruction of pathogens, etc.) with economic advantages in terms of lower energy consumption, traditionally linked to mesophilic digestion.

Accepting all types of wastewater sludge and equipped with a heat recuperator / converter, Digelis[™] Fast actually recycles the heat from sludge at the reactor outlet (55°C) to heat the inlet sludge, thereby maintaining energy consumption rates comparable to those required for implementing mesophilic processes.

Capable of treating high loads (up to 4 kg MV/m³/d) and enabling, by its two times faster digestion kinetics, to reduce the contact time of your sludge in the structure to 12 days – as compared to 20 days for a conventional mesophilic process – Digelis[™] Fast allows for a reduced digester size an optimized footprint enabling to reduce by 40%, for a reduced overall site footprint.

At the digestion outlet, and as in a standard thermophilic process, 50% of organic sludge matter is converted into biogas directly usable for subsequent energy production.





Marseille, France capacity: 1,800,000 PE Csepel - Budapest, Hungary capacity: 1,600,000 PE

SUEZ treatment infrastructure

innovation.mailin@degremont.com www.degremont.com