

REMEX®

Paddle agitator



The digester, with its powerful and robust agitator, forms the core of every biogas plant. The continuously operating REMEX® agitator is designed for the mixing of energy crops and slurry in the first- and second-stage digesters of the biogas plant.

Optimum digestion is achieved by the slow continuous movement of the REMEX® which is both reliable and gentle on bacteria. Sinking and swimming layers are practically eliminated and the gas is stirred out.

During operation the REMEX® agitator can be set to an optimum speed and minimum power consumption by the plant control system.

Due to the extremely low power consumption of the REMEX® agitator, it is not necessary to halt operation which can lead to the formation of swimming layers. The drive unit lies outside of the digester leaving it easily accessible to carry out maintenance work.

- Very low inherent power consumption
- Controlled by frequency converter
- Extremely robust and durable
- Self-lubricating internal polyamide bearing
- Horizontal and vertical mixing
- External motor
- Low failure rate
- Low maintenance



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General specifications

Agitator type:	REMEX®
Size:	3 m / 3.5 m / 4 m / 5 m
No. of drive units:	1
Rated capacity*:	7.5 kW (13 kW)*
Rated voltage*:	230 V (400 V)*
Frequency*:	50 Hz (87 Hz)*
Rated speed (electric motor):	970 rpm (1700 rpm)*
Drive type:	Planetary drive unit
Agitator shaft:	Ø 219 mm
Agitator speed range:	2.3 – 10.6 rpm (approx. 6 rpm at 50 Hz)
Drive lubrication:	Synthetic oil approx. 6–7 l
Ball joint bearing lubrication:	Synthetic oil approx. 12–13 l
Noise emissions at 50 Hz:	77 dB(A) (1 m)
Noise emissions at 87 Hz:	79 dB(A) (1 m)

