

NEW



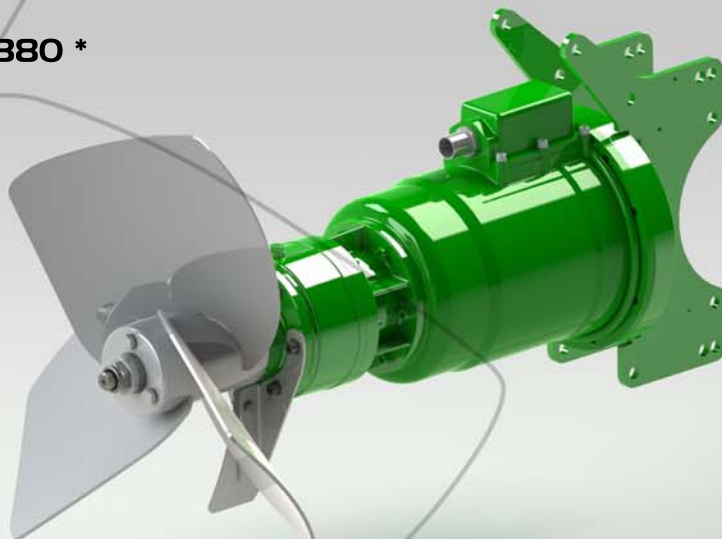
Submersible Agitator OPTIMIX 2G (Agriculture & Biogas)

Type 2G / 90 - 380 *

9 kW = 4.830 €

Type 2G / 150 - 380 *

15 kW = 5.320 €



Powerful

High efficiency

Low energy consumption

*Available April 2011

Application

Biogas and liquid manure tanks
Dry matter content up to 10 %
Substrate up to 60°C
pH value 6,5 - 8,2

Motor

9,0 kW or 15,0 kW
400 V, 50 Hz, 1.435 or 1.465 rpm
Electric motor IP 68, pressure-tight 10m
Thermo-control per phase 3 x PTC 130°C as overhead protection
High efficiency $\cos \phi$ 0.86
Oil chamber, turbine oil

Gear

Planetary gear for 15kW
Reduction ratio $i = 1 : 3,83$
Oil chamber
Gear oil SAE 85W140/API GL - 5
Oil change after 2,000 operating hours

Propeller

Three-blade propeller, balanced
9kW with ϕ 560 mm / 15kW with ϕ 620 mm
Galvanized steel, hardened steel or stainless steel ss304
Propeller speed 390 rpm

Ex Zone

Certified for Ex - Zone 2
Classification $\text{CE} \text{ } \text{II} \text{ } 3\text{G} \text{ Ex nA+c+k IIA T1 Gc}$

Guiding Units

The mixers are adjustable horizontally and vertically
Motor support for guiding mast sizes of 120/120, 100/100 or 80/80 mm
Supported by 4 guide rollers for optimal sliding

Bearings

Bearing housing with mechanical seals SIC/SIC
Tapered roller bearings on drive side
Shaft in hardened steel
Bearing housing with own oil chamber

Electric cable

Pressed cable connection, 10 m cable standard length
Cable $7 \times 4 + 2 \times 1 \text{ mm}^2 \phi$ 20 mm,
Resistant against biomass
Strain relief clamp for 100 kN integrated

Corrosion protection

Cast iron housing GGG40
Primer coated and painted
Mixer and guiding mast are galvanically isolated

Control

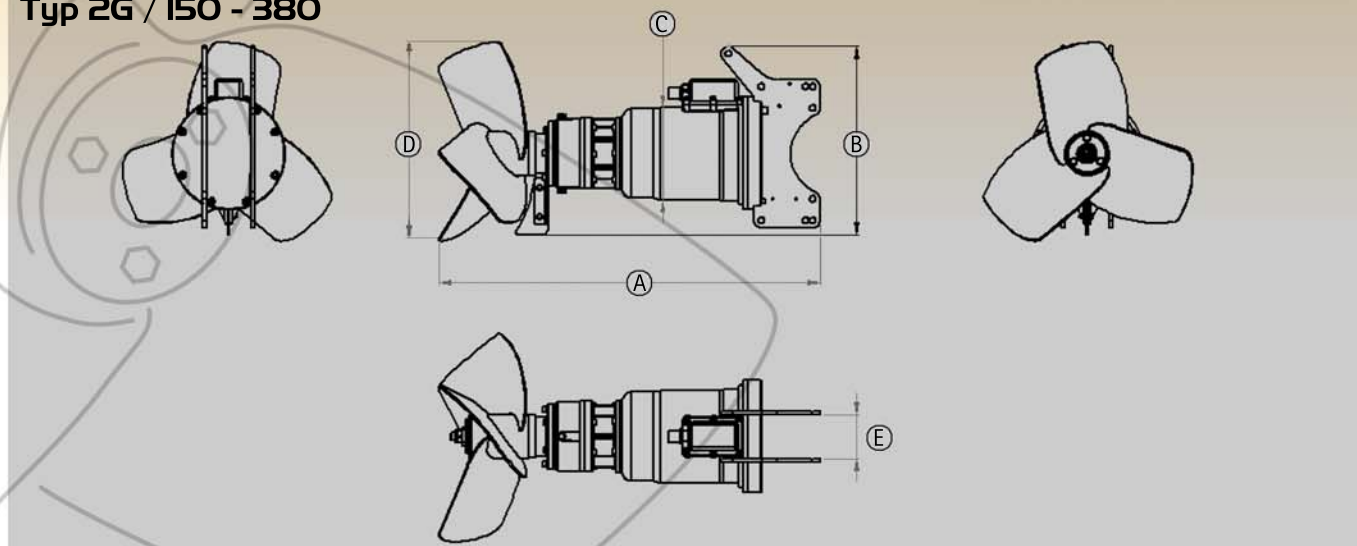
Star-delta switch, soft start, frequency converter



Submersible Agitator OPTIMIX 2G (Agriculture & Biogas)

Typ 2G / 90 - 380

Typ 2G / 150 - 380



Dimensions

Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)							
2G/90-380	1000 mm	520 mm	219 mm	560 mm	120 mm							
2G/150-380	1050 mm	520 mm	256 mm	620 mm	120 mm							

Technical Data

Type	Rated Power (kW)	Rated voltage (V Δ /VY)	Frequency (Hz)	Rated motor speed (rpm)	Rated propeller speed (rpm)	Rated current (A Δ /AY)	Power factor cos ϕ	Axial force (N)	Circulation water rate (m ³ / h)	Circulation water rate (m ³ / min)	Gear reduction ratio i	Weight (kg)
2G/90-380	9	400/690	50	1.435	375	18/10	0,86	2.000	3.600	60	3,83	180
2G/150-380	15	400/690	50	1.465	383	29/17	0,86	3.000	5.000	83	3,83	190