

OPTIMIX 2G 150-275



Application

Submersible Motor
Dry matter content up to 12 %
Substrate temperature up to 55°C
pH-value 6.5 - 8.2

Motor

Motor power: 15.0 kW
400 V, 50 Hz, special tension on request
Protection class IP 68, up to 10 m submergence
PTC thermistors 130 °C for thermal protection
High power factor
Separate oil chamber, turbine oil

Gear

Flange mounted planetary gear,
Reduction ratio $i = 5.33$
Separat oil chamber (1.5 Ltr.), Longlife gear oil
Oil change interval after 8,000 operating hours

Electric Cable

Pressed cable gland
cable $7 \times 4 + 4 \times 1,5 \text{ mm}^2$, $\varnothing 20 \text{ mm}$,
Resistant against biomass microbes
Strain relief 800 N

Ex zone (tube and gear)

Authorized for Ex-Zone 2
ATEX Classification $\text{CE } \text{Ex II 3G Ex ec h IIA T3 Gc}$

Propeller

3-blade high efficiency propeller, dynamically balanced
Optimix 2G | 15 kW | propeller HD+ 850 | 275 rpm
Hardened steel optional galvanized, or ss304

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
15 kW: 100 / 120 / 150 mm square mast
Special sizes on request

Bearing

Bearing flange with mechanical seal SiC/SiC
2 tapered roller bearings to absorb the axial forces
Shaft $\varnothing 45 \text{ mm}$
Bearing flange with own oil chamber, longlife gear oil
Oil change interval after 8,000 operating hours
Accessory: POM protection to minimize abrasion

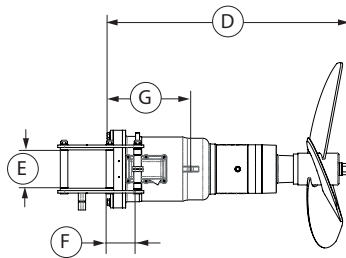
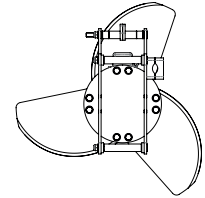
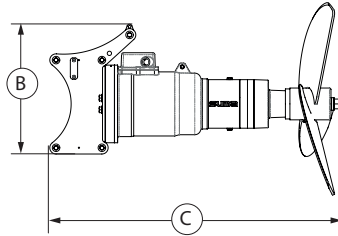
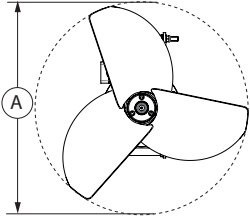
Corrosion protection

Ductile cast iron housing (GGG40)
Agitator has an two component epoxy coating
Agitator is galvanically isolated from the guide mast

Control box (optional)

Soft start or frequency converter

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Dimensions / Weight

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Weight approx. [kg]		
2G 150-275	850	520	1,180	990	100 / 120 / 150	105 / 125	335	200		

Technical data

Type	Rated Power [kW]	Rated Voltage [V]	Full load current [A]	Frequency [Hz]	Power factor cos ϕ	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [mm]	Axial force [kN]	Flow velocity [m/s] *	Pumping rate [m ³ /min]	Pumping rate [m ³ /h]
2G 150-275	15	400	29.1	50	0.83	5.33	275	850	4.1	3.6	120	7.190

Subject to technical changes

* measured in water and 1.2 m distance