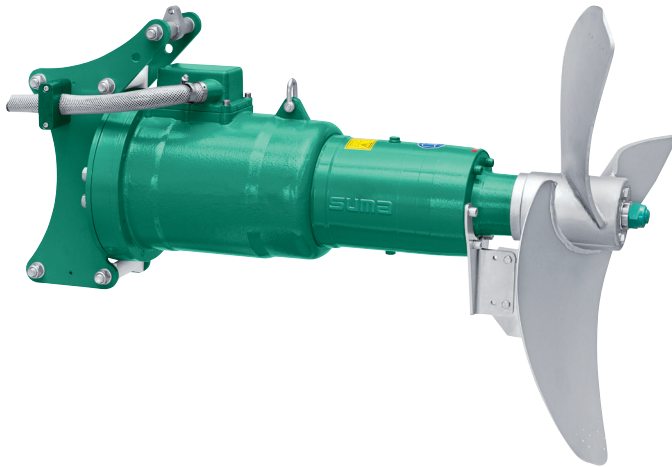


## Submersible motor OPTIMIX 2G 150-275



**Powerful  
Flexible application  
High efficiency**



### Application

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

### Propeller

3-blade high efficiency propeller,  
dynamically balanced

Optimix 2G | 15 kW | propeller HD+ 850 | 275 rpm  
Standard is hardened steel optional galvanized,  
or ss304

### 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  $\cos \phi$  0.86  
Separat oil chamber, turbine oil

### Guide mast connection

Guide mast support with 4 rollers for smooth height  
adjustment:

15 kW: 120 / 150 mm square mast  
Special sizes on request

### 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

### Bearing

Bearing flange with mechanical seal SiC/SiC  
2 tapered roller bearings to absorb the axial forces  
Shaft  $\varnothing$  45 mm  
Separat oil chamber, longlife gear oil  
Oil change interval after 8,000 operating hours

### Electric Cable

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

### Corrosion protection

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

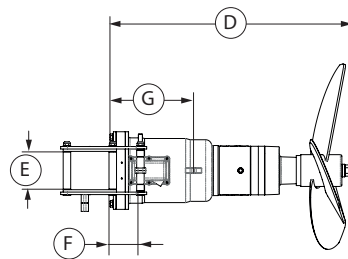
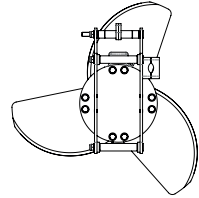
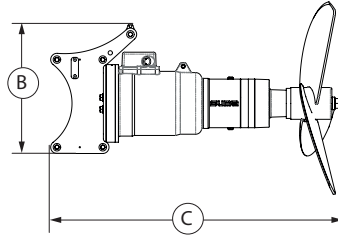
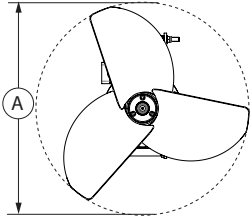
### Ex zone (tube and gear)

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

### Control box (optional)

Soft start or frequency converter

## Submersible motor OPTIMIX 2G 150-275



### Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]			
2G 150-275	850	520	1.180	990	120/ 150	105 / 125	335			

### Technical Data

Type	Rated Power [kW]	Rated Voltage [VY]	Full load current [AY]	Frequency [Hz]	Power factor cos $\phi$	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [mm]	Axial force [kN]	Flow velocity [m/s] *	Pumping rate [m <sup>3</sup> /min]	Weight approx. [kg]
2G 150-275	15	400	29	50	0.86	5.33	275	850	4.1	3.6	119	200

Subject to technical changes

\* measured in water and 1.2 m distance