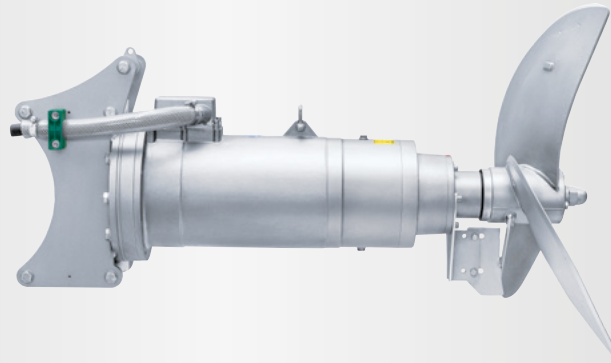


## OPTIMIX 3A 250-270



### Application

Submersible motor  
 Dry matter content up to 12 %  
 Substrate temperature up to 55°C  
 pH-value 5.5 - 8.2 / Optional ss316: pH-values 4.5 - 8.2

### Motor

Motor power: 25 kW  
 400 V, 50 Hz, special tensions on request  
 Protection class IP 68, pressure resistant 10 m  
 PTC thermistors for overheat protection  
 Separate oil chamber, turbine oil

### Gear

Sturdy planetary gear,  
 Reduction ratio  $i = 5.35$   
 Longlife gear oil  
 Oil change after 8,000 operating hours

### Corrosion protection

Housing and guiding unit in ss304  
 Optional completely manufactured in ss316

### Electric cable

Pressed cable gland, cable standard length 10 m  
 Cable  $4 \times 10 + 4 \times 1 \text{ mm}^2$ ,  $\varnothing 26 \text{ mm}$ , shielded  
 Resistant against biomass microbes  
 Strain relief 800 N

### Propeller

3-blade propeller, dynamically balanced  
 Optimix 3A | 25 kW | propeller HD+ 900 | 270 rpm  
 ss304, hardened ss304 or ss316

### Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:  
 25 kW: 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 is hardened steel  
 Bearing flange with separate oil chamber, Longlife gear oil  
 Oil change interval every 8,000 operating hours  
Accessory: POM protection to minimize abrasion

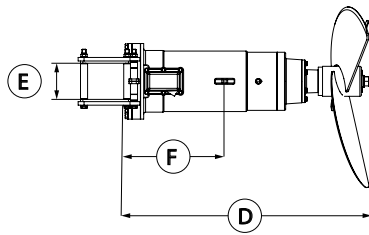
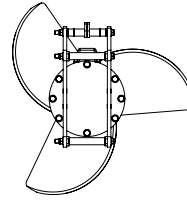
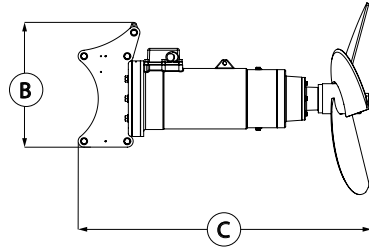
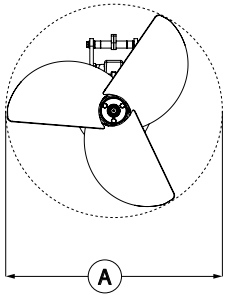
### Ex zone

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

### Control box

Soft start or frequency converter

## OPTIMIX 3A 250-270



### Dimensions / Weight

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Weight approx. [kg]				
3A 250-270	900	530	1,280	1,055	150 / 120	430	260				

### Technical data

Type	Rated Power [kW]	Rated Voltage [V]	Full load current [A]	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]	Pumping rate [m <sup>3</sup> /h]
3A 250-270	25	400	46.1	50	0.86	5.35	270	900	4.5	3.6	135	8,080

Subject to technical changes  
\* measured in water and 1.2 m distance