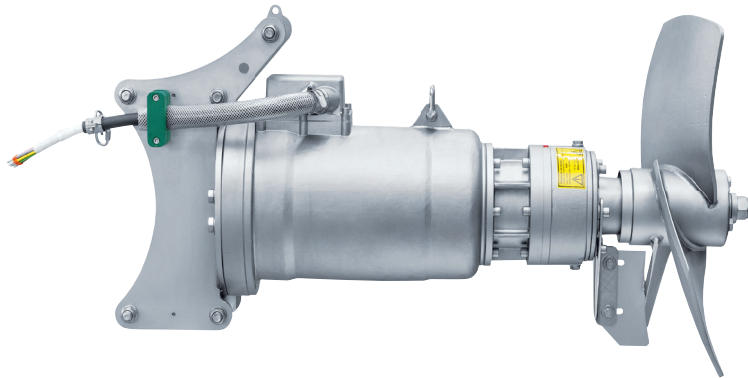


Submersible motor OPTIMIX

2A 135-280

2A 135-380



**Powerful
Flexible application
High efficiency**

Application

Dry matter content up to 12 %
Substrate temperature up to 52°C
pH-value 5.5 - 8.2
Optional ss316 pH-value 4.5 - 8.2

Propeller

3-blade propeller, dynamically balanced

Optimix 2A	13,5 kW	propeller HD+800	280 rpm
Optimix 2A	13,5 kW	propeller HD+620	380 rpm

Standard is ss304, optional hardened ss304 or ss316

Motor

Motor power: 13.5 kW, 400V, 50Hz
Protection class IP 68, up to 10 m submergence
PTC thermistors 130 °C for thermal protection
Separat oil chamber, turbine oil

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:

13.5 kW: 100 / 120 / 150 mm square mast
Special sizes on request

Gear

Flange mounted planetary gear,
Reduction ratio $i = 3.83$ or 5.25
Longlife gear oil
Change oil after 4,000 operating hours

Bearing

Bearing flange with mechanical seal SiC/SiC
2 tapered roller bearings to absorb the axial forces
Shaft in hardened steel
Separat oil chamber, longlife gear oil

Electric Cable

Pressed cable gland, cable standard length 10 m
Cable $7 \times 4 + 2 \times 1 \text{ mm}^2 \text{ } \varnothing 20 \text{ mm}$,
Resistant against biomass microbes
Strain relief 800 N

Ex zone

Authorized for Ex-Zone 1
Electrical: $\text{CE } \text{Ex} \text{ II } 2\text{G Ex e IIA T3 Gb}$
Mechanical: $\text{CE } \text{Ex} \text{ II } 2\text{G Ex ck IIA T3}$

Corrosion protection

Housing and guiding unit in ss304
Optional completely manufactured in ss316

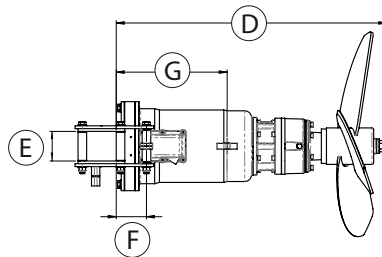
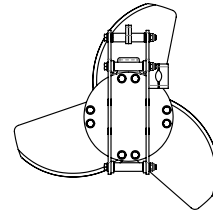
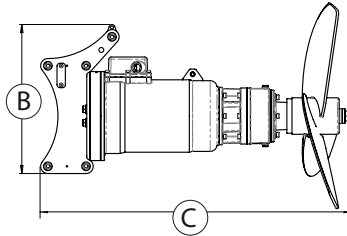
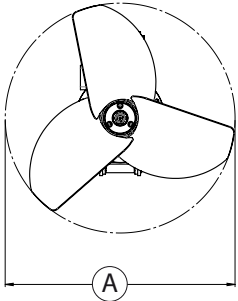
Control box (optional)

Soft start or frequency converter

Submersible motor OPTIMIX

2A 135-280

2A 135-380



Dimensions										
Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]			
2A 135-280	800	520	1.195	995	100 / 120 / 150	105	385			
2A 135-380	620	520	1.160	960	100 / 120 / 150	105	385			

Technical Data												
Type	Rated Power [kW]	Rated Voltage [V]	Full load current [A]	Frequency [Hz]	Power factor $\cos \varphi$	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [mm]	Axial force [kN]	Flow velocity [m/s] *	Pumping rate [m ³ /min]	Weight approx. [kg]
2A 135-280	13,5	400	24	50	0,90	5,25	280	800	2,9	3,2	93	190
2A 135-380	13,5	400	24	50	0,90	3,83	380	620	2,6	3,7	64	190

Subject to technical changes

* measured in water and 1.2 m distance