

OPTIMIX

2A 40-180

2A 40-250



Application

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

Motor

Motor power: 4.0 kW
 400V, 50Hz, special tensions on request
 Protection class IP 68, up to 10 m submergence
 PTC thermistors 130 °C for thermal protection
 Separat oil chamber, turbine oil

Gear

Flange mounted planetary gear
 Reduction ratio $i = 3.83$ or 5.25
 Seperate oil chamber, longlife gear oil
 Change oil after 10,000 operating hours

Corrosion protection

Housing and guiding unit in ss304
 Agitator has a two component epoxy coating
 Optional completely manufactured in ss316

Electric Cable

Pressed cable gland, cable standard length 10 m
 Cable $7 \times 4 + 2 \times 1.5 \text{ mm}^2 \text{ } \varnothing 20 \text{ mm}$
 Resistant against biomass microbes
 Strain relief 800 N

Propeller

3-blade propeller, dynamically balanced

Optimix 2A	4 kW	propeller HD+700	180 rpm
Optimix 2A	4 kW	propeller HD+620	250 rpm

ss304, hardened ss304 or ss316

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
 80 / 100 / 120 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 in hardened steel
 Separat oil chamber, longlife gear oil
Accessory: POM protection to minimize abrasion

Ex zone

Authorized for Ex-Zone 2
 ATEX Classification **CE Ex** II 3G Ex nA ck IIA T3 Gc

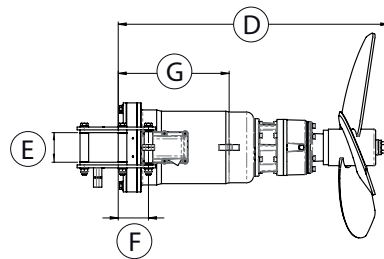
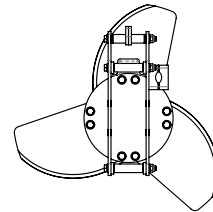
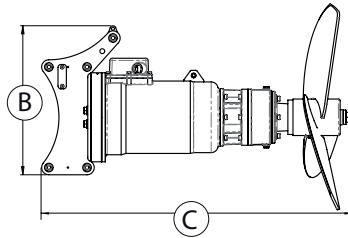
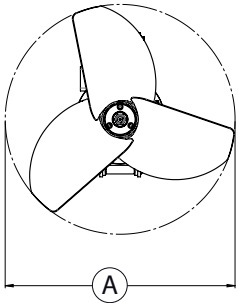
Control box (optional)

Soft start or frequency converter

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Dimensions

Type	A [∅ in mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]					
2A 40-180	700	520	1,085	890	80 / 100 / 120	105	305					
2A 40-250	620	520	1,050	855	80 / 100 / 120	105	305					

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 [m³/min]	Weight approx. [kg]
2A 40-180	4.0	400	8.6	50	0.79	5.25	180	700	0.85	2.0	44	180
2A 40-250	4.0	400	8.6	50	0.79	3.83	250	620	0.95	2.2	38	170

Subject to technical changes

* measured in water and 1.2 m distance