



OPTIMIX 2G MOBILE

Application

Mobile submersible motor
For closed manure tanks with a depth up to 4 m
Dry matter content up to 10 %
substrate temperature up to 55°C
pH-values 6.5 - 8.2

Motor

Power: 9.0 kW
400 V, 50 Hz, special tensions on request
submersible motor IP 68, pressure resistant 10 m
PTC thermistors PTC as overheat protection
High efficiency $\cos \phi$ 0,86
Own oil circuit, turbine oil

Bearing

Bearing flange with mechanical seal of SiC/SiC
2 tapered roller bearings to absorb the axial forces
Bearing flange with own oil chamber
Longlife gear oil
Oil change interval after 10,000 operating hours / all 3 years
Accessory: POM protection to minimize abrasion

Propeller

3-bladed propeller

Optimix 2G | 9.0 kW | propeller D 520 | 380 rpm
Telescope version:
Optimix 2G | 9.0 kW | propeller D 480 | 380 rpm
Galvanized, hardend steel, ss304 or hardend ss304

Trolley

Standard (1.000 mm wide)
Optional: telescope system if the ceiling height is limited
Configuration on request

Corrosion protection

Primed and coated with 2K-Epoxy lacquer
Motor is galvanically isolated to the guide mast

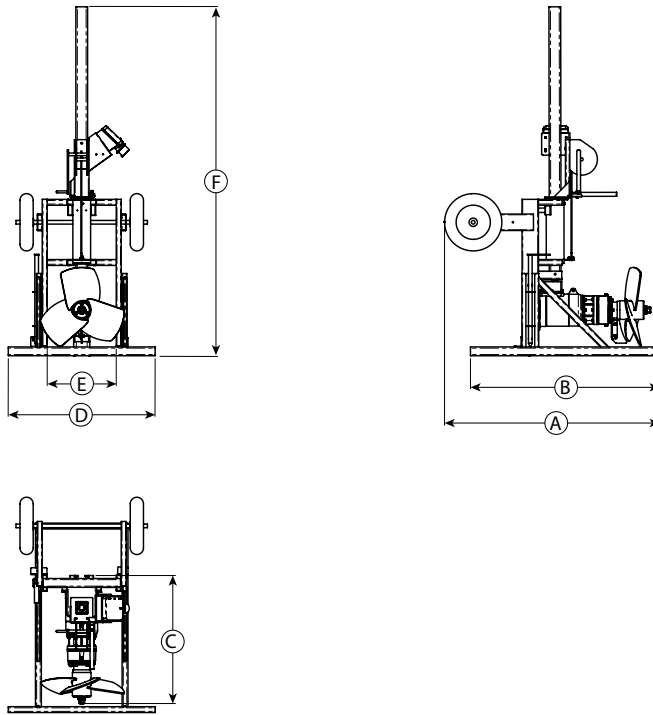
Cable

Pressed cable guiding
Cable 7 x 4 + 4 x 1.5 mm² Ø 20 mm, microbe-resistant
Cable pull relief 800 N integrated

Control box

Star-delta switch (32A)

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Dimensions / Weight

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Weight approx. [kg]
2G 90-380	1,467	1,290	872	1,000	470	2.360 - 5.560	205 - 300
2G 90-380 telescope	1,467	1,290	872	1,000	470	2.310 - 3.110	205 - 330

Technical data

Type	Rated Power [kW]	Rated Voltage [V]	Rated Current [A]	Frequency [Hz]	Power factor cos ϕ	Propeller speed [U/min]	Propeller diameter [mm]	Axial force [kN]	Flow velocity [m/s] *	Pumping rate Water [m ³ /min]	Pumping rate Water [m ³ /h]
2G 90-380	9.0	400	17.7	50	0.83	380	480	1.3	2.8	28	1.680
2G 90-380	9.0	400	17.7	50	0.83	380	520	1.6	2.9	35	2.100

Subject to technical changes

* measured in water and 1.2 m distance