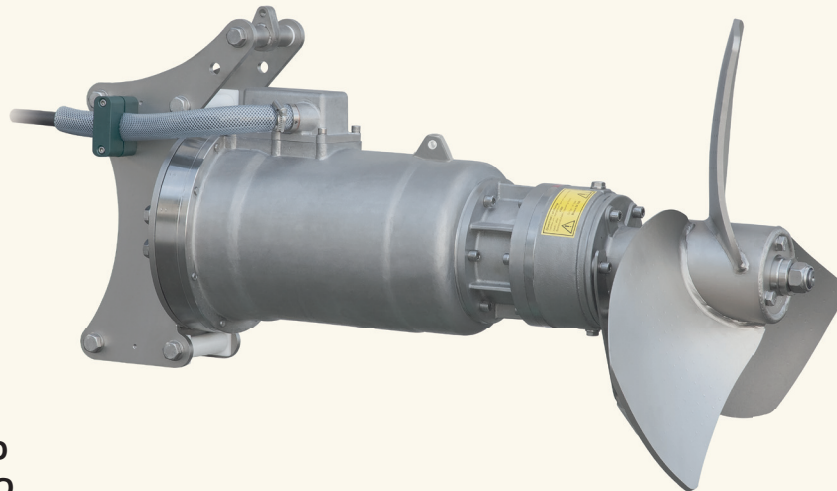


Submersible motor OPTIMIX 2A



Type 2A / I35 - 330
Type 2A / I35 - 460

Powerfull
Flexible application
High efficiency

Application

Biogas and liquid manure tanks
Dry matter content up to 12 %
Substrate temperature up to 52°C
pH-value 5.5 - 8.2

Motor

Motor power: 18 hp, 60Hz
Protection class IP 68, up to 32.8 ft submergence
3 x PTC 130 °C in windings for thermal protection
Separat oil chamber, turbine oil

Gear

Flange mounted planetary gear,
Reduction ratio $i = 3.83, 5.25$
Gear oil Longlife

Bearing

Bearing housing with mechanical seals SiC/SiC
Tapered roller bearing
Shaft is hardened steel
Separat oil chamber, gear oil Longlife

Ex zone

Authorized for Ex-Zone 2
ATEX Classification $\text{CE Ex II 3G Ex nA ck IIA T4 Gc}$

Propeller

3-blade high efficiency propeller, dynamically balanced
Optimix 2A 18.5 hp / propeller HD+ 700 / 330 rpm
Optimix 2A 18.5 hp / propeller HD+ 540 / 460 rpm
Standard is ss304, optional hardened ss304

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
17.7 hp: 4 / 5 / 6 in square mast
Special sizes on request

Corrosion protection

Complete housing of ss304

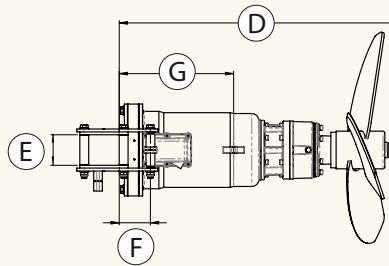
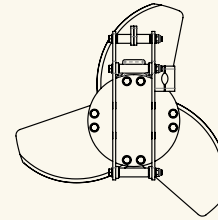
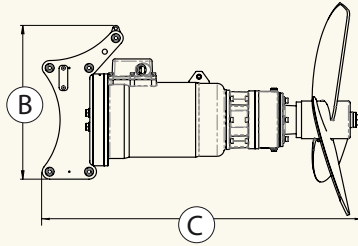
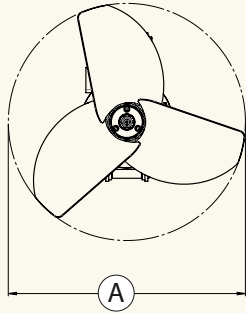
Electric Cable

Pressed cable gland, cable standard length 32.8 ft
Cable 0.28 x 0.16 + 0.08 x 0.16 Ø 0.8 in,
Resistant against biomass
Strain relief 800 N

Control box (optional)

Star-delta, soft start or frequency converter

Submersible motor OPTIMIX 2A



Dimensions										
Type	A [in]	B [in]	C [in]	D [in]	E [in]	F [in]				
2A 135-330	27.5	20.4	45	37.4	3.9 / 4.7 / 5.9	4.13				
2A 135-460	21	20.4	45	37.4	3.9 / 4.7 / 5.9	4.13				

Technical Data										
Type	Rated Power [hp]	Frequency [Hz]	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [in]	Axial force [kN]	Flow velocity [ft/s] *	Pumping rate [gal/min]	Weight approx. [lbs]	
2A 135-330	18	60	5.25	330	27.5	2.7	11.5	20235.6	419	
2A 135-460	18	60	3.83	460	21	2.4	12.5	17435.4	419	

Subject to technical changes

* measured in water and 3.9 ft distance