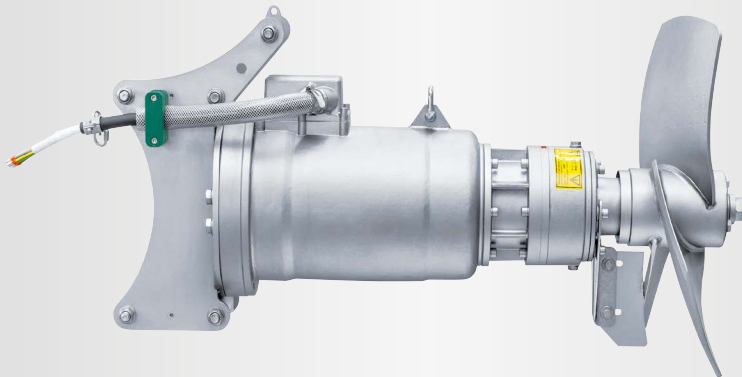


OPTIMIX

2A 150-330

2A 150-460



Application

Submersible motor for aggressive media with low pH-values
 Dry matter content up to 12 %
 Substrate temperature up to 125 F
 pH-values 5.5-8.2 / optional ss316 pH-values 4.5 - 8.2

Propeller

3-blade propeller, dynamically balanced

Optimix 2A	20 hp	330 rpm	propeller HD+750
Optimix 2A	20 hp	460 rpm	propeller HD+580

ss304, hardened ss304 or ss316

Motor

Motor: 20 hp
 Protection class IP 68, up to 33 ft submergence
 PTC thermistors for thermal protection
 Separat oil chamber, turbine oil

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
 20.0 hp: 3.9 / 4.7 / 5.9 in
 Spezial sizes on request

Gear

Flange mounted planetary gear
 Reduction ratio $i = 5.25$ or 3.83
 Longlife gear oil
 8,000 operating hours (2A 150-330) and 4,000 operating hours between oil changes (2A 150-460)

Electric Cable

Pressed cable gland, cable standard length 33 ft
 Cable 7 x 4 + 4 x 1 mm², Ø 0.8 in shielded
 Resistant against biomass microbes
 Strain relief 180 lbf

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

Corrosion protection

Housing and guiding unit in ss304
 Optional completely manufactured in ss316

Controls (optional)

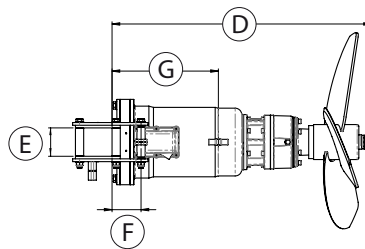
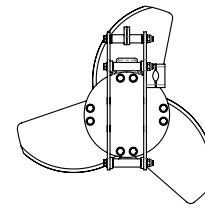
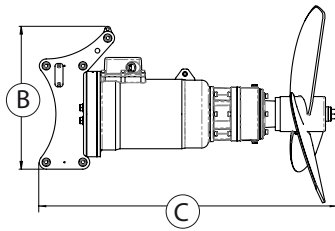
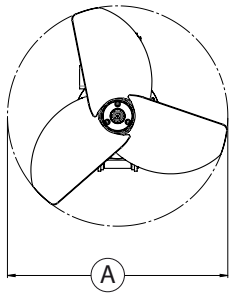
Soft start or frequency converter



OPTIMIX

2A 150-330

2A 150-460



Dimensions

Type	A [∅ in]	B [in]	C [in]	D [in]	E [in]	F [in]	G [in]		
2A 150-330	29.5	20.47	47	39.2	3.9 / 4.7 / 5.9	4.1	15.1		
2A 150-460	22.9	20.47	45.7	37.8	3.9 / 4.7 / 5.9	4.1	15.1		

Technical data

Type	Rated Power [hp]	Frequency [Hz]	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [in]	Axial force [lbf]	Flow velocity [ft/s] *	Pumping rate [gal/min]	Weight approx. [lbs]
2A 150-330	20	60	5.25	330	29.5	697	12.1	25,096	418
2A 150-460	20	60	3.83	460	22.9	674	14.1	17,171	418

Subject to change without notice

* measured in water and 3.93 ft distance

As per: 2023-08

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