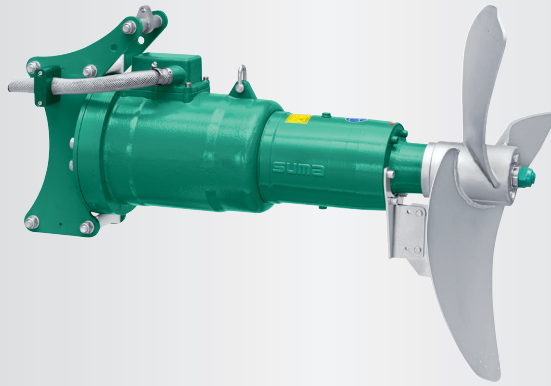


OPTIMIX 2G 150-325



Application

submersible motor for biogas and manure tanks
Dry matter content up to 12 %
Substrate temperature up to 55°C
pH-value 6.5 - 8.2

Motor

Motor power: 20 hp, 60Hz
Protection class IP 68, up to 33 ft submergence
PTC thermistors 130 °C for thermal protection
Separat oil chamber, turbine oil

Gear

Flange mounted planetary gear,
Reduction ratio $i = 5.33$
Separat oil chamber (1.5 Ltr.), Longlife gear oil
Oil change interval after 8,000 operating hours

Electric Cable

Pressed cable gland
cable $0.28 \times 0.16 + 0.08 \times 0.06 \text{ in}^2$, $\varnothing 0.8 \text{ in}$,
Resistant against biomass microbes
Strain relief 180 lbf

Ex zone (tube and gear)

Authorized for Ex-Zone 2
ATEX Classification $\text{CE Ex II 3G Ex nA ck IIA T3 Gc}$

Propeller

3-blade high efficiency propeller,
dynamically balanced

Optimix 2G | 20 hp | propeller HD+ 750 | 325 rpm
Standard is hardened steel optional galvanized,
or ss304

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
20 hp: 4.72 / 5.9 in square mast
Special sizes on request

Bearing

Bearing flange with mechanical seal SiC/SiC
2 tapered roller bearings to absorb the axial forces
Shaft $\varnothing 1.77 \text{ in}$
Bearing flange with own oil chamber, longlife gear oil
Oil change interval after 8,000 operating hours
Accessory: POM protection to minimize abrasion

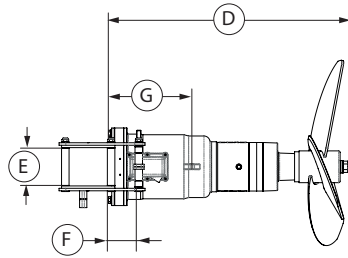
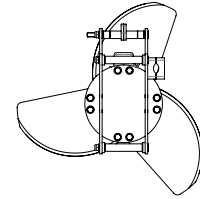
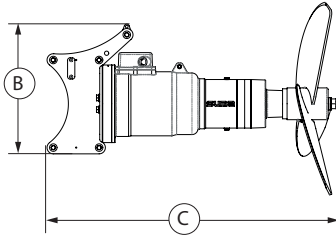
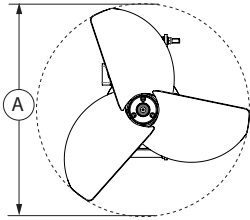
Corrosion protection

Ductile cast iron housing (GGG40)
Agitator has an two component epoxy coating
Agitator is galvanically isolated from the guide mast

Control box (optional)

Soft start or frequency converter

OPTIMIX 2G 150-325



Dimensions

Type	A [∅ in in]	B [in]	C [in]	D [in]	E [in]	F [in]	G [in]			
2G 150-325	29.5	20.5	46.5	39	4.72/ 5.9	4.1 / 4.9	13.2			

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]	
2G 150-325	20	60	5.33	325	29.5	6,969	12	24,832	440	

Subject to technical changes

* measured in water and 3.94 ft distance