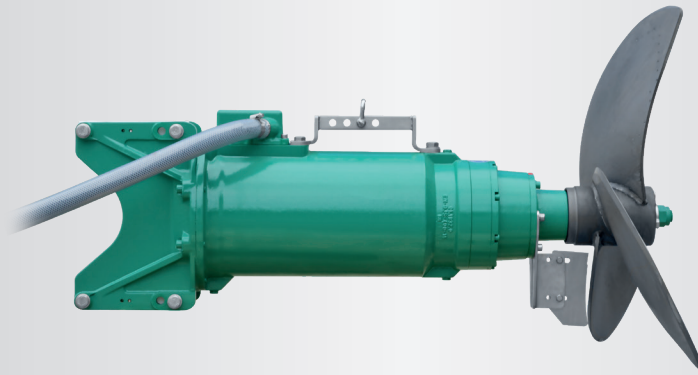


OPTIMIX 3G 250-325



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: 33.5 hp
 Protection class IP 68, up to 33 ft submergence
 PTC 130°C thermistors (for thermal protection)
 Separat oil chamber, turbine oil

Gear

Flange mounted planetary gear,
 Reduction ratio $i = 5.35$
 Longlife gear oil
 Oil change after 8,000 operating hours

Corrosion protection

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

Cable

Pressed cable gland, cable standard length 33 ft
 Cable $0.16 \times 0.39 + 0.16 \times 0.04 \text{ in}^2$, $\varnothing 1.02 \text{ in}$,
 Resistant against biomass
 Strain relief 180 lbf

Propeller

3-blade high efficiency propeller, dynamically balanced
 Optimix 3G | 33.5 hp | propeller HD+ 800 | 325 rpm
 Standard is hardened steel, optional ss304

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
 33.5 hp: 4.72 / 5.9 in square mast

Bearing

Bearing flange with mechanical seal SiC/SiC
 2 Tapered roller bearings to absorb the axial thrust
 Shaft $\varnothing 1.77 \text{ in}$
 Separat oil chamber, Longlife gear oil
Accessory: POM protection to minimize abrasion

Ex zone

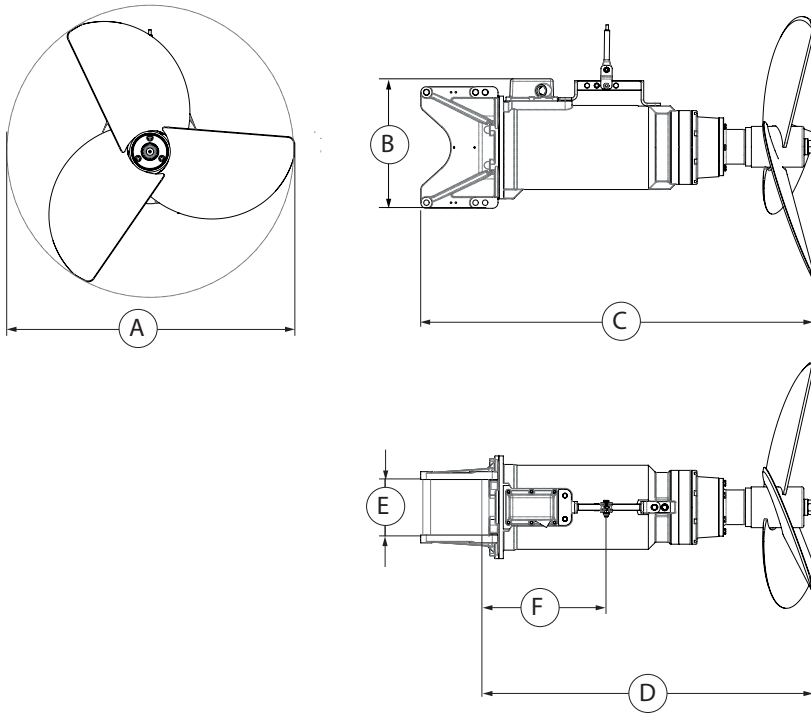
Authorized for Ex-Zone 2
 ATEX Classification $\text{CE Ex II 3G Ex nA ck IIA T3 Gc}$

Control switch (optional)

Soft start or frequency converter



OPTIMIX 3G 250-325



Dimensions

Type	A [in]	B [in]	C max. [in]	D [in]	E [in]	F [in]				
3G 250-325	31.5	15.8	50.4	43.3	5.9 (4.72)	14.6				

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]	
3G 250-325	33.5	60	5.35	325	31.5	966	14.1	33,021	573	

Subject to technical changes

* measured in water and 3.94 ft distance

As per: 2018-07

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