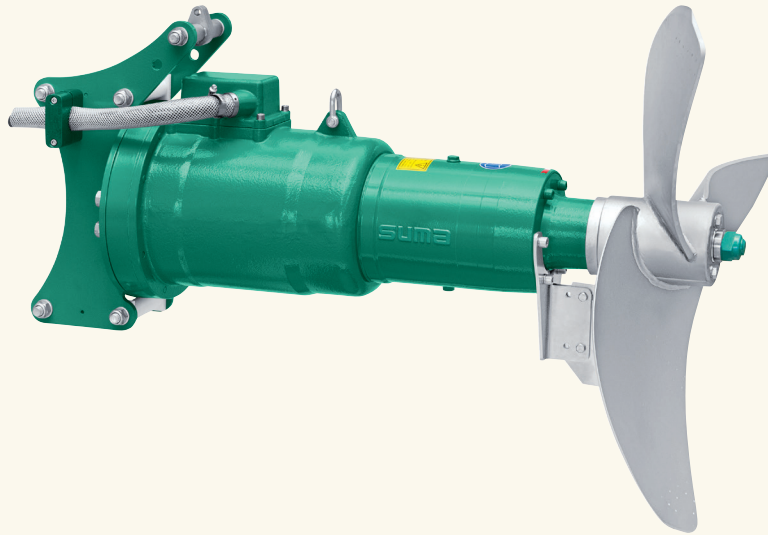


# Submersible motor OPTIMIX 2G 150 - 325



Type 2G 150 - 325

**Powerfull**  
**Flexible application**  
**High efficiency**

## Application

Biogas and liquid manure tanks  
Dry matter content up to 12 %  
Substrate temperature up to 55°C  
pH-value 6.5 - 8.2

## Motor

Motor power: 20.4 hp  
60 Hz, special tension on request  
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 for cooling

## Gear

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

## Bearing

Bearing housing with mechanical seals SiC/SiC  
Tapered roller bearing, shaft  $\varnothing 1.77$  in  
Separat oil chamber, gear oil Longlife  
Change oil after 8,000 operating hours

## Ex-Zone

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

## Propeller

3-blade high efficiency propeller, dynamically balanced  
Optimix 2G 20.4 hp / propeller HD+ 750 / 325 rpm  
Standard is hardened steel optional, galvanized, ss304  
or hardened ss304

## Guide mast connection

Guide mast support with 4 rollers for smooth height  
adjustment:

20.4 hp: 4.72 / 5.9 inch square mast

Special sizes on request

## Corrosion protection

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

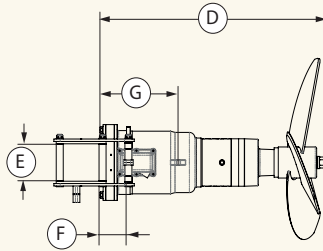
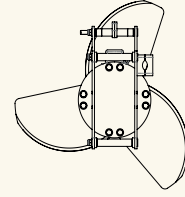
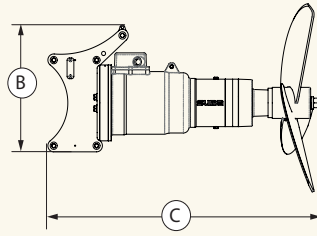
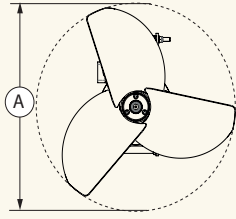
## Electric Cable

Pressed cable gland, cable standard length 32.8 ft  
Microbe resistant cable  $0.28 \times 0.16 + 0.08 \times 0.06$  in<sup>2</sup>  
 $\varnothing 0.79$  in  
Strain relief 800 N

## Control box (optional)

Star-delta switch, soft start or frequency converter

# Submersible motor OPTIMIX 2G 150 - 325



| Dimensions |        |        |        |        |           |           |        |  |  |  |
|------------|--------|--------|--------|--------|-----------|-----------|--------|--|--|--|
| Type       | A [in] | B [in] | C [in] | D [in] | E [in]    | F [in]    | G [in] |  |  |  |
| 2G 150-325 | Ø 29.5 | 20.5   | 47.2   | 39.4   | 4.7 / 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 [kN] | Flow velocity [ft/s] * | Pumping rate [gal/min] | Weight approx. [lbs] |  |
| 2G 150-325     | 20.4             | 60             | 5,33                 | 325                   | 29.5                    | 3.3              | 12.5                   | 25888.8                | 462                  |  |

Subject to technical changes

\* Measured in water and 3.9 ft distance