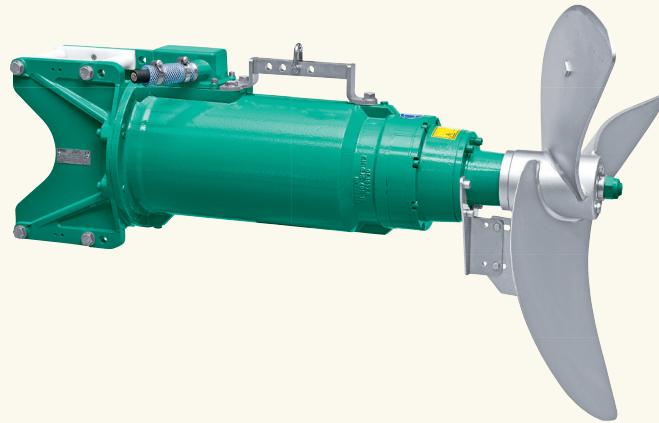


Submersible Agitator OPTIMIX 3G



Type 3G / 250 - 325

Powerfull
High efficiency
Low cost maintenance

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

34 hp
60 Hz, special tensions on request
Protection class IP 68, up to 31.8 ft submergence
3 x PTC 130°C in windings for thermal protection
Oil filled motor for cooling and lubrication

Gear

Planetary gear
Reduction ratio 5.35
Gear oil Longlife
Change oil after 8,000 operating hours

Drive head

Bearing housing with mechanical seal SiC/SiC and
2 tapered-roller bearings for axial and radial loads
Drive shaft Ø 1.77 in
Separate oil chamber with gear oil Longlife

Certification

ATEX Classification CE Ex II 3G Ex nAck IIA T4 Gc

Propeller

3-blade, high efficiency propeller, dynamically balanced
Optimix 3G 25 kW / propeller HD+ 800 / 325 rpm
Standard is galvanized, optional hardened steel, ss304
and hardened ss304

Guide mast connection

Complete with 4 rollers for smooth height adjustment:
34 hp: 4.72 / 5.9 in square tube

Corrosion protection

Ductile cast iron housing (ASTM A536)
Agitator has an two component epoxy coating

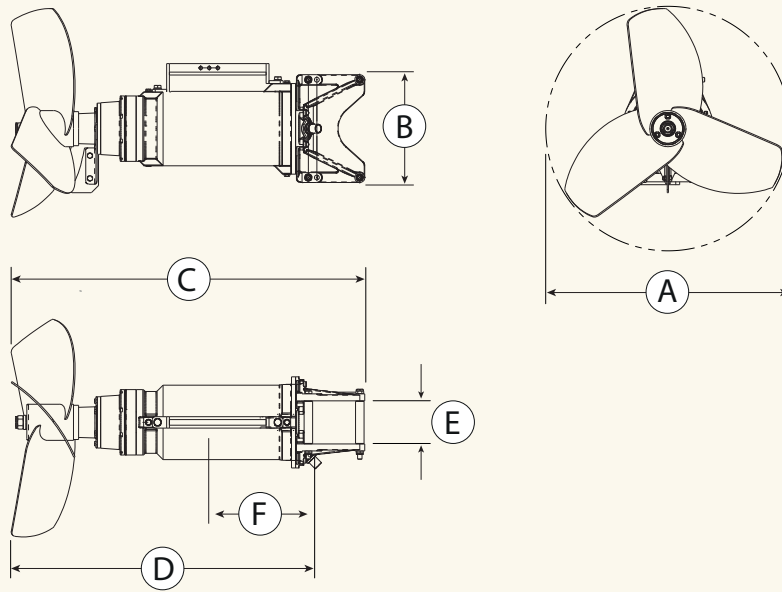
Electric Cable

Microbe resistant cable, standard length 31.8 ft with
pressed-on cable gland
Cable 0.16 x 0.3 + 0.16 x 0.06 in² Ø 1.02 in
Strain relief 800 N integrated

Control box (optional)

Soft start or frequency converter

Submersible Agitator OPTIMIX 3G



| Dimensions | | | | | | | | | | |
|--------------|--------|--------|------------|--------|-----------|--------|--|--|--|--|
| Type | A [in] | B [in] | C max [in] | D [in] | E [in] | F [in] | | | | |
| 3G 250 - 325 | 31.5 | 15 | 53.2 | 46.1 | 5.9 (4.7) | 14.6 | | | | |

| 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 [lbs] | |
| 3G 250 - 325 | 34 | 60 | 5.35 | 325 | 31.5 | 4.4 | 14.1 | 33021.5 | 573.2 | |

Subject to technical changes

* measured in water with a distance of 3.9 ft