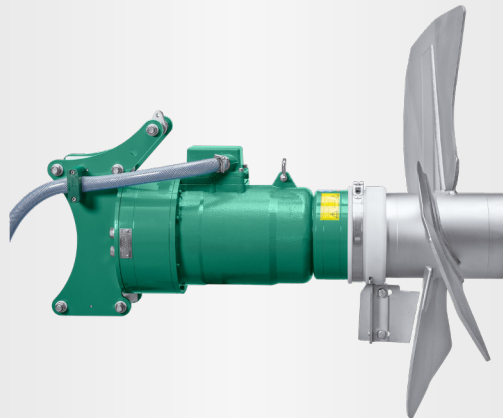


OPTIMIX 4G 150-135



Application

Submersible motor
Dry matter content up to 14 %
Substrate temperature up to 55 °C
pH-value 6.5 - 8.2

Motor

Motor power: 15.0 kW, 2-poles
400 V, 50 Hz, special voltage on request
Protection class IP 68, up to 10 m submergence
PTC thermistors for thermal protection
High power factor, IE4
Separate oil chamber, turbine oil

Gear / Bearing

Robust 2-staged planetary gear
Reduction ratio $i = 22.87$
Separat oil chamber (2.1 liter), Longlife gear oil
Oil change interval after 8,000 operating hours
Mechanical seal SiC/SiC
POM protection to minimize abrasion

Electric Cable

Pressed cable gland
Cable $7 \times 4 + 4 \times 1,5 \text{ mm}^2$, $\varnothing 20 \text{ mm}$,
Resistant against biomass microbes
Strain relief 800 N

Ex-Zone

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

Propeller

3-blade high efficiency propeller, dynamically balanced
Optimix 4G | 15 kW | propeller XT 1200-13 | 135 rpm
Hardened steel, ss304 or galvanized

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
Square mast 150 x 150 mm
Special sizes on request

Corrosion protection

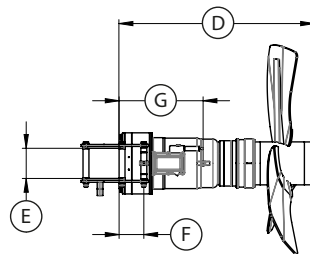
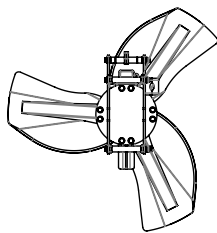
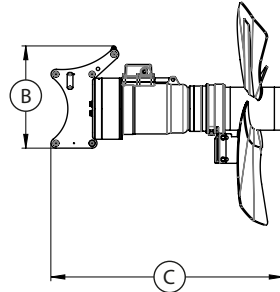
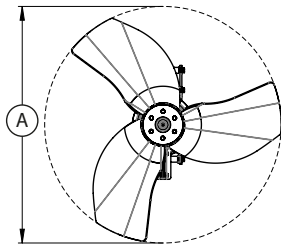
Ductile cast iron housing (GGG40)
Two component epoxy coating
Agitator is galvanically isolated from the guide mast

Recommended accessory:
Cathodic corrosion protection (ccp) to prevent corrosive damage

Control box

Start/Stop operation via soft start provided by the customer
Optional: frequency converter for speed control and increasing energy efficiency

OPTIMIX 4G 150-135



Dimensions / Weight

| Type | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | G [mm] | Weight approx. [kg] |
|------------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| 4G 150-135 | 1,200 | 525 | 1,150 | 985 | 150 | 125 | 425 | 300 |

Technical data

| Type | Rated power [kW] | Rated voltage [V] | Rated current [A] | Frequency [Hz] | Power factor cos ϕ | Gear reduction ratio | Propeller speed [rpm] | Propeller diameter [mm] | Axial force [kN] | Flow velocity [m/s] * | Pumping rate water [m ³ /min] | Pumping rate water [m ³ /h] |
|------------|------------------|-------------------|-------------------|----------------|-------------------------|----------------------|-----------------------|-------------------------|------------------|-----------------------|--|--|
| 4G 150-135 | 15 | 400 | 27.7 | 50 | 0.83 | 22.87 | 135 | 1,200 | 6.5 | 3.4 | 223 | 13,390 |

Subject to technical changes

* measured in water and 1.2 m distance