

OPTIMIX

4G 150-65

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 1600-25	65 rpm
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

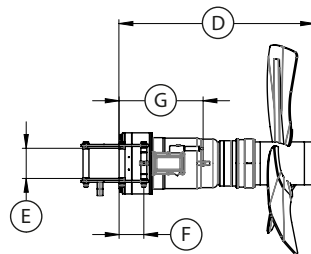
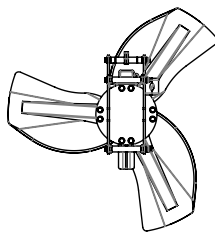
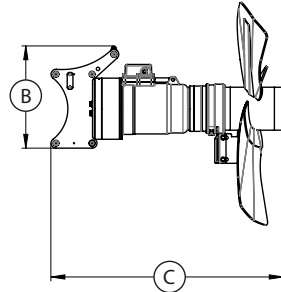
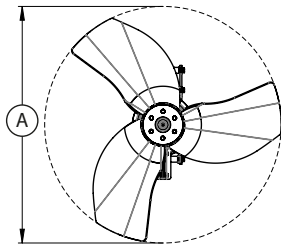
Start/Stop operation via soft start provided by the customer

Optional: frequency converter for speed control and increasing energy efficiency

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Dimensions / Weight

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Weight approx. [kg]
4G 150-65	1,600	525	1,060	985	150	125	335	300
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 $\cos \phi$	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 150-65	15	400	29.1	50	0.83	22.87	65	1,600	5.25	2.0	237	14,210
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