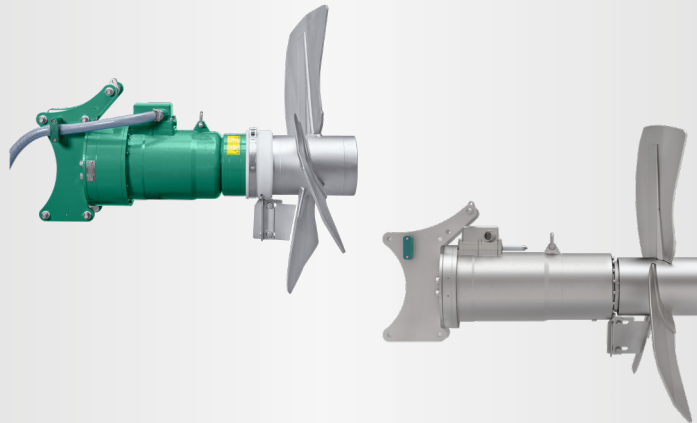


OPTIMIX

4G 150-160

4A 150-160



Application

Submersible motor
 Dry matter content up to 14 %
 Substrate temperature up to 131 F
 4G cast iron: pH 6.5 - 8.2
 4A stainless 304: pH 5.5 - 8.2

Motor

Motor power: 20 hp, 2-poles
 Protection class IP 68, up to 33 ft submergence
 PTC thermistors for thermal protection
 High power factor
 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 x 4 + 4 x 1,5 mm², Ø 0.8 in
 Resistant against biomass microbes
 Strain relief 180 lbf

Ex-Zone

Authorized for Ex-Zone 2
 ATEX Classification   II 3G Ex ec h IIA T3 Gc

Propeller

3-blade high efficiency propeller, dynamically balanced
 Optimix 4G | 20 hp | propeller XT 1100-13 | 160 rpm
 ss304, ss304 hardened or ss316

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
 Square mast 5.9 x 5.9 in
 Special sizes on request

Corrosion protection

Ductile cast iron housing (GGG40) (G-series),
 stainless 304 (A-series)
 Guiding unit & housing completely in ss316
 Agitator is galvanically isolated from the guide mast

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

Control box

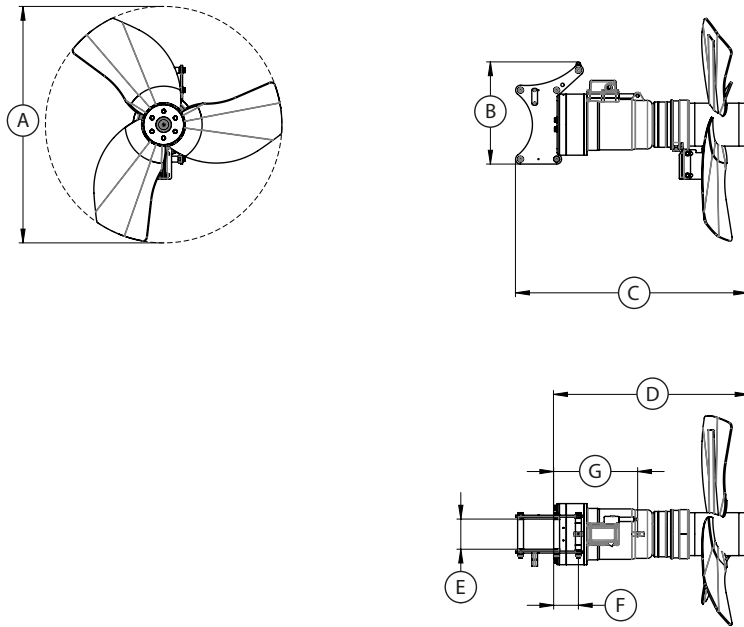
Start/Stop operation via soft start provided by the customer
 Optional: frequency converter for speed control and increasing energy efficiency



OPTIMIX

4G 150-160

4A 150-160



Dimensions / Weight

Type	A [in]	B [in]	C [in]	D [in]	E [in]	F [in]	G [in]	Weight approx. [lbs]
4G 150-160	43	20.7	45.3	38.8	5.9	4.9	16.7	662
4A 150-160								

Technical data

Type	Rated power [kW]	Frequency [Hz]	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [in]	Axial force [kN]	Flow velocity [m/s] *	Pumping rate water [m ³ /min]	Pumping rate water [m ³ /h]
4G 150-160	20 hp	60	22.87	160	43	4.9	4.0	217	13,020
4A 150-160									

Subject to change without notice
 * measured in water and 3.94 ft distance