

OPTIMIX

2G 20-35

2G 30-35



Application

Submersible motor for homogenization and flow generation
 Dry matter content up to 4 %
 Medium temperature up to 55°C
 pH-value 6.5 - 8.2

Motor

Motor power: 2.0/3.0 kW, 8-poles
 400 V, 50 Hz, special voltage on request
 Submersible motor protection class IP 68,
 up to 10 m submergence
 PTC thermistors for thermal protection
 High power factor
 Separate oil chamber, turbine oil

Gear / Bearing

Robust 2-staged planetary gear
 Reduction ratio $i = 19.6$
 Separate oil chamber (2.1 Ltr.), Longlife gear oil
 Oil change interval after 8,000 operating hours
 Mechanical seal SiC/SiC

Cable

Pressed cable gland
 Cable $4 \times 2.5 + 2 \times 1 \text{ mm}^2$, $\varnothing 20 \text{ mm}$
 Resistant against biomass microbes
 Strain relief 800 N

Ex-Zone

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

Propeller

3-blade high efficiency propeller, dynamically balanced

2G 20-35	2 kW	propeller WX 2200-10	35 rpm
2G 30-35	3 kW	propeller WX 2600-10	35 rpm

ss304

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:
 100 / 120 / 150 mm square mast
 Special sizes on request

Corrosion protection

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

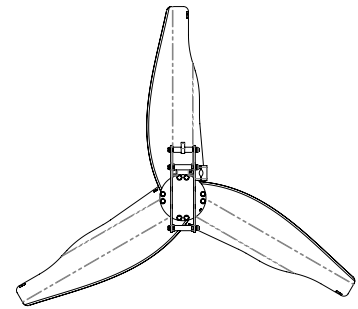
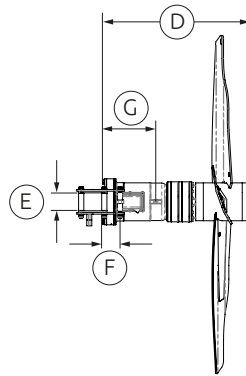
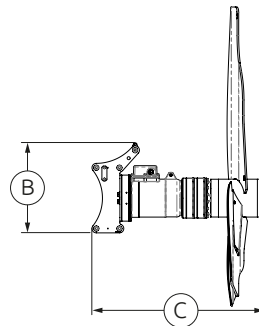
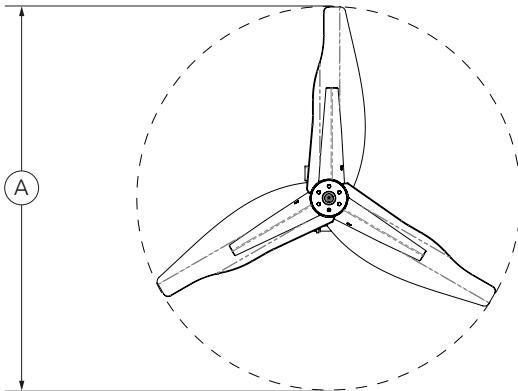
Control box

Soft start or frequency converter



تلفن تماس: ۸ و ۰۲۱ - ۸۸۳۲۴۹۳۷

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بیسارایزن پارس
 نمایندگی ایران

تلفن تماس: ۸ و ۸۸۳۲۴۹۳۷ - ۰۲۱

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Dimensions / Weight

Type	A [∅ in mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Weight [kg]			
2G 20-35	2,200	518	997	854	100 / 120 / 150	105	310	220			
2G 30-35	2,600	518	997	854	100 / 120 / 150	105	310	240			

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]
2G 20-35	2	400	6.2	50	0.58	19.6	35	2,200	2.1	1.12	251	15,040
2G 30-35	3	400	7.8	50	0.68	19.6	35	2,600	3.45	1.3	409	24,520

Subject to technical changes

* measured in water and 1.2 m distance