



OPTIMIX

2G 20-30

2G 30-30



بیمارزین پارس

نماینده ایران

تلفن تماس : ۸ و ۸۸۳۲۴۹۳۷ - ۰۲۱

E-mail : sales@brp.co.ir



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 $\text{CE II 3G Ex ec h IIA T3 Gc}$

Propeller

3-blade high efficiency propeller, dynamically balanced

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

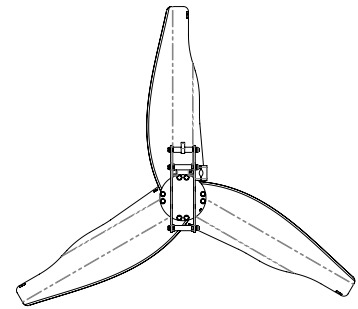
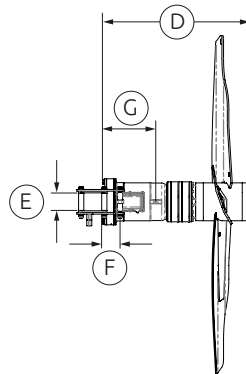
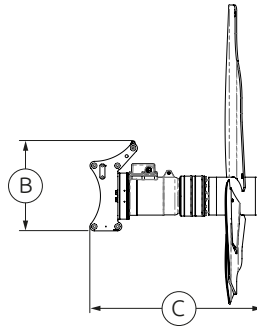
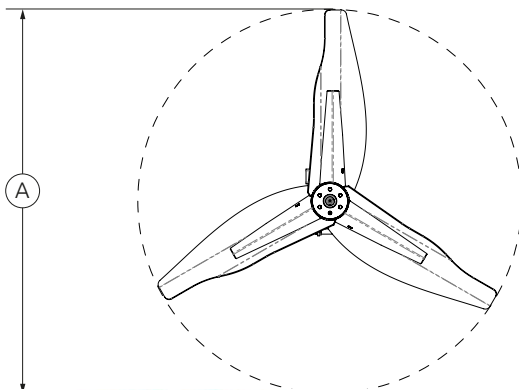
Control box

Soft start or frequency converter

OPTIMIX

2G 20-30

2G 30-30



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تلفن تماس: ۸ و ۸۸۳۲۴۹۳۷ - ۰۲۱

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Dimensions / Weight

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

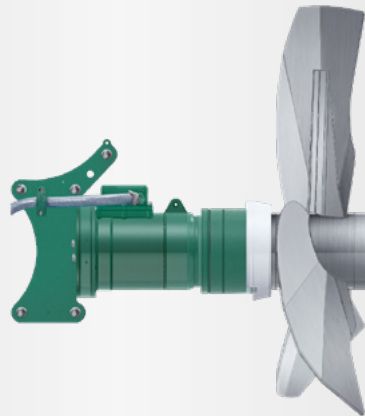
Technical data

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 [m³/min]	Pumping rate water [m³/h]
2G 20-30	2	400	6.2	50	0.68	19.6	30	2,200	2.1	1.12	251	15,040
2G 30-30	3	400	7.8	50	0.68	19.6	30	2,600	3.45	1.3	409	24,520

Subject to technical changes

* measured in water and 1.2 m distance

OPTIMIX 2G 90-65



Application

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

Motor

Power: 9.0 kW
400 V, 50 Hz, other voltages on request
Protection class IP 68, up to 10 m submergence
PTC thermistors for thermal protection
High efficiency
Own oil circulation, turbine oil

Gear / Bearing

Robust, two stage planetary gear
Reduction ration $i = 22.87$
Mechanical seal SiC/SiC
2 tapered-roller bearings to absorb the axial forces
Hardened steel spline shaft, Ø 50 mm
Separate oil fill with long life gear oil
Oil change interval 12,000 operation hours

Ex-zone

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



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Propeller

3-blade high efficiency propeller, dynamically balanced
Optimix 2G 90-65 | 9.0 kW | XT 1400-25 | 65 rpm
Painted steel, optionally ss304, hardened steel

Guide mast connection

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

Corrosion protection

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

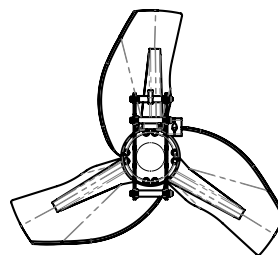
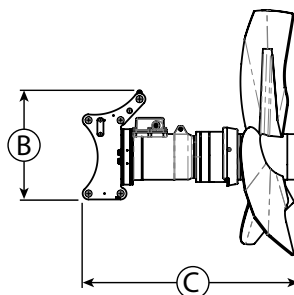
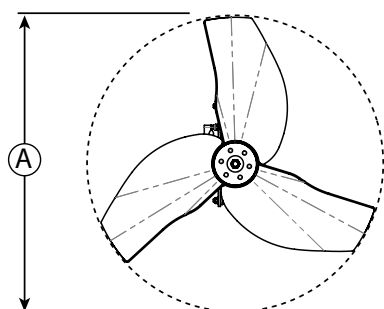
Recommended accessories for ss304 blades:
cathodic corrosion protection (CCP)/sacrificial anode to prevent electrocorrosion

Cable

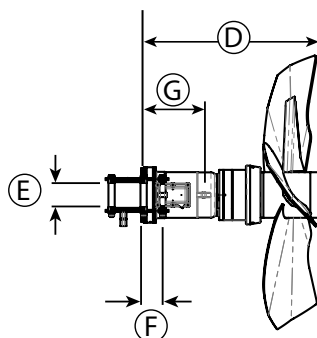
Pressed-on cable gland
Standard length 10 m
Cable $7 \times 4 \text{ mm}^2 + 4 \times 1.5 \text{ mm}^2$, Ø 20 mm
Microbe resistant
Strain relief 800 N

Control box

Soft start or frequency converter



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Dimensions / Weight

Type	A [Ø in mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Weight approx. [kg]			
2G 90-65	1,400	520	1,050	850	100 / 120 / 150	105	300	260			

Technical data

Type	Rated Power [kW]	Rated Voltage [V]	Full load 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 [m ³ /min]	Pumping rate [m ³ /h]
2G 90-65	9.0	400	17.7	50	0.83	22.87	65	1,400	3.2	1.8	162	9.720

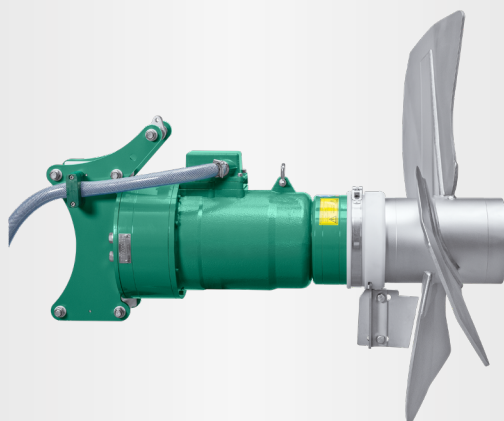
Subject to technical changes

* measured in water and 1.2 m distance

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 x 4 + 4 x 1,5 mm², Ø 20 mm,
Resistant against biomass microbes
Strain relief 800 N

Ex-Zone

Authorized for Ex-Zone 2
ATEX Classification **CE** II 3G 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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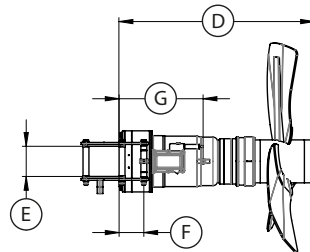
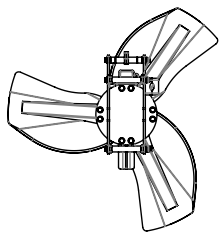
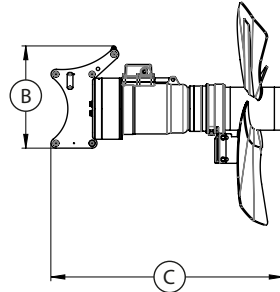
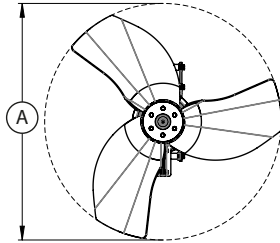
تلفن تماس : ۸ و ۸۸۳۲۴۹۳۷ - ۰۲۱

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OPTIMIX

4G 150-65

4G 150-135



بینارزین پارس

نمایندگی ایران

تلفن تماس: ۸ و ۰۲۱ - ۸۸۳۲۴۹۳۷

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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 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 150-65	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