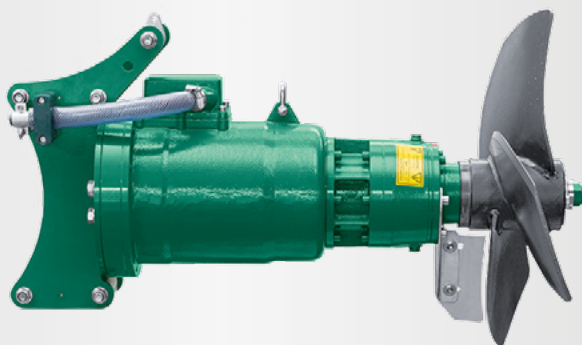




## OPTIMIX

**2G 40-180**  
**2G 40-250**  
**2G 90-280**  
**2G 90-380**  
**2G 110-280**  
**2G 110-380**  
**2G 150-380**

### Application

Submersible motor  
 Dry matter content up to 12 %  
 Substrate temperature up to 55°C  
 pH-value 6.5 - 8.2

### Motor

Motor power: 4.0 / 9.0 / 11.0 / 15.0 kW  
 400 V, 50 Hz, special tension on request  
 Protection class IP 68, up to 10 m submergence  
 PTC thermistors for thermal protection  
 High efficiency  
 Own oil circulation, turbine oil

### Gear

Flange mounted planetary gear,  
 reduction ratio  $i = 3.83 / 5.25$   
 Own oil circulation, longlife gear oil  
 Change oil after 10,000 operating hours  
 or 4,000 operating hours for 2G 150 - 380

### Corrosion protection

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

### Electric Cable

Pressed-on cable gland  
 Standard length 10 m  
 7 x 4 + 4 x 1.5 mm<sup>2</sup>, Ø 20 mm  
 Resistant against biomass  
 Strain relief 800 N



تلفن تماس: ۸ و ۸۸۳۲۴۹۳۷ - ۰۲۱

E-mail : sales@brp.co.ir

### Propeller

3-blade high efficiency propeller, dynamically balanced

|                   |              |                          |                |
|-------------------|--------------|--------------------------|----------------|
| Optimix 2G        | 4 kW         | propeller HD+ 700        | 180 rpm        |
| Optimix 2G        | 4 kW         | propeller HD+ 620        | 250 rpm        |
| Optimix 2G        | 9 kW         | propeller HD+ 750        | 280 rpm        |
| Optimix 2G        | 9 kW         | propeller HD+ 580        | 380 rpm        |
| Optimix 2G        | 11 kW        | propeller HD+ 820        | 280 rpm        |
| Optimix 2G        | 11 kW        | propeller Hd+ 620        | 380 rpm        |
| <b>Optimix 2G</b> | <b>15 kW</b> | <b>propeller HD+ 660</b> | <b>380 rpm</b> |

Hardened steel, ss304 or galvanized

### Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment:

for 4 / 9 kW: 80 / 100 / 120 mm square mast  
 for 11 / 15 kW: 100 / 120 / 150 mm square mast

### Bearing

Bearing flange with mechanical seal SiC/SiC  
 2 tapered roller bearings to absorb the axial forces  
 Shaft of hardened steel  
 Bearing flange with separate oil chamber filled with longlife gear oil  
Accessory: POM protection to minimize abrasion

### Ex-Zone

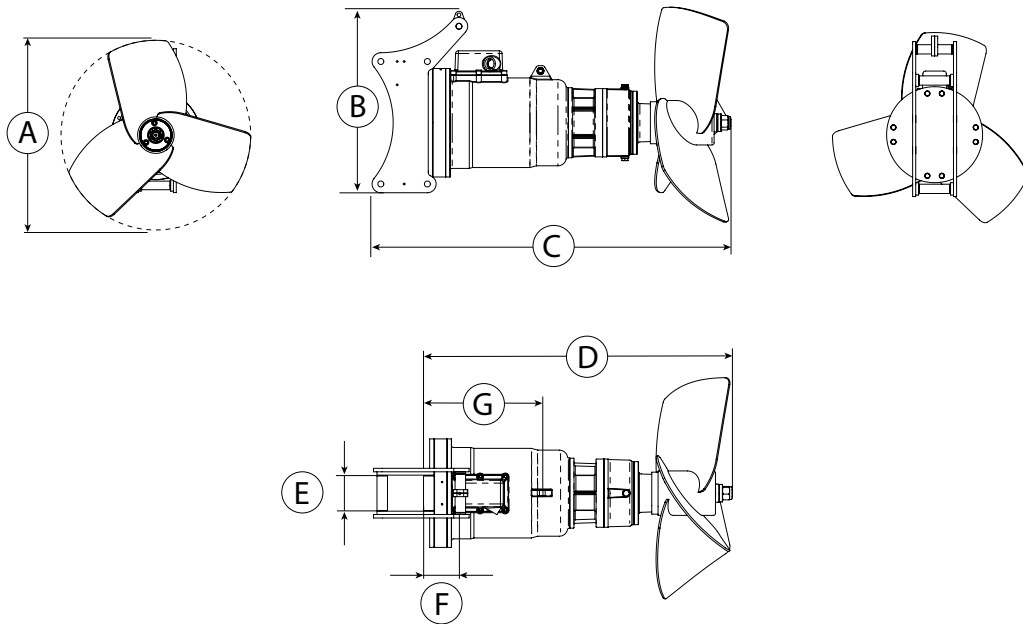
Authorized for Ex-Zone 2  
 ATEX Classification **CE** **Ex** II 3G Ex ec h IIA T3 Gc

### Control box

9, 11 and 15 kW: Star-delta switch, soft start or frequency converter

4 kW: Direct start\*, star-delta switch, soft start or frequency converter

\* only after consultation and approval!



## OPTIMIX

**2G 40-180**  
**2G 40-250**  
**2G 90-280**  
**2G 90-380**  
**2G 110-280**  
**2G 110-380**



نمایندگی ایران

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 approx. [kg] |  |  |  |
|-------------------|-------------|------------|--------------|------------|------------------------|------------|------------|---------------------|--|--|--|
| 2G 40-180         | 700         | 520        | 1,085        | 890        | 80 / 100 / 120         | 105        | 305        | 170                 |  |  |  |
| 2G 40-250         | 620         | 520        | 1,050        | 855        | 80 / 100 / 120         | 105        | 305        | 170                 |  |  |  |
| 2G 90-280         | 750         | 520        | 1,085        | 885        | 80 / 100 / 120         | 105        | 300        | 170                 |  |  |  |
| 2G 90-380         | 580         | 520        | 1,050        | 850        | 80 / 100 / 120         | 105        | 300        | 170                 |  |  |  |
| 2G 110-280        | 820         | 520        | 1,100        | 900        | 100 / 120 / 150        | 105        | 335        | 180                 |  |  |  |
| 2G 110-380        | 620         | 520        | 1,100        | 900        | 100 / 120 / 150        | 105        | 335        | 180                 |  |  |  |
| <b>2G 150-380</b> | <b>660</b>  | <b>520</b> | <b>1,100</b> | <b>900</b> | <b>100 / 120 / 150</b> | <b>105</b> | <b>335</b> | <b>180</b>          |  |  |  |

### 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 [m³/min] | Pumping rate [m³/h] |
|-------------------|------------------|-------------------|-----------------------|----------------|--------------------|----------------------|-----------------------|-------------------------|------------------|-----------------------|-----------------------|---------------------|
| 2G 40-180         | 4.0              | 400               | 8.8                   | 50             | 0.77               | 5.25                 | 180                   | 700                     | 0.85             | 2.0                   | 44                    | 2,680               |
| 2G 40-250         | 4.0              | 400               | 8.8                   | 50             | 0.77               | 3.83                 | 250                   | 620                     | 0.95             | 2.2                   | 38                    | 2,290               |
| 2G 90-280         | 9.0              | 400               | 17.7                  | 50             | 0.83               | 5.25                 | 280                   | 750                     | 2.4              | 2.9                   | 75                    | 4,480               |
| 2G 90-380         | 9.0              | 400               | 17.7                  | 50             | 0.83               | 3.83                 | 380                   | 580                     | 1.9              | 3.4                   | 51                    | 3,080               |
| 2G 110-280        | 11.0             | 400               | 22.5                  | 50             | 0.77               | 5.25                 | 280                   | 820                     | 3.6              | 4.1                   | 128                   | 7,680               |
| 2G 110-380        | 11.0             | 400               | 22.5                  | 50             | 0.77               | 3.83                 | 380                   | 620                     | 2.55             | 3.7                   | 64                    | 3,850               |
| <b>2G 150-380</b> | <b>15.0</b>      | <b>400</b>        | <b>29.1</b>           | <b>50</b>      | <b>0.83</b>        | <b>3.83</b>          | <b>380</b>            | <b>660</b>              | <b>3.1</b>       | <b>4.1</b>            | <b>80</b>             | <b>4,860</b>        |

Subject to technical changes

\* measured in water and 1.2 m distance

As per: 2025-01

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