

## GIANTMIX FR LIGHT

**FR 40-180**

**FR 40-250**

**FR 75-280**

**FR 75-380**




### Application

Long-axis agitator for small steel- or concrete tanks  
 Dry matter content up to 12%  
 Substrate temperature up to 70°C  
 pH-values 6.5 - 8.2

### Technical Data

Tube length 1.0 m / 1.5 m  
 Sealing plate DN 700 (Ø860 mm),  
 other dimensions on request  
 Sealing plate with other angle of inclination on request  
 Sound pressure 75 dB(A)  
 Oil equalizing container for monitoring the tightness  
 POM protection to minimize abrasion

### Motor

Power: 4 kW (6-poles - 945 rpm) / 7.5 kW (1,460 rpm)  
 400 V, 50 Hz  
 PTC thermistors 160°C (overheat protection)  
 Ex-Motor  II 3G Ex nA IIA T3 Gc (Ex-Zone 2)

### Gear

Planetary gear  
 Reduction ratio  $i = 3.83$  or  $5.25$   
 Separate oil chamber, gear oil Blasia SX 320  
 Oil change interval all 10,000 operation hours

### Tube

Tube Ø 101.6 x 5.74 mm in ss304 or ss316 on request  
 Plug shaft Ø 50 mm with intermediate bearings and both  
 sided- plug-connections

### Propeller

3-bladed, dynamically balanced propeller



FR 40-180	4.0 kW	propeller HD+ 700	180 rpm
FR 40-250	4.0 kW	propeller HD+ 620	250 rpm
FR 75-280	7.5 kW	propeller HD+ 700	280 rpm
FR 75-380	7.5 kW	propeller HD+ 520	380 rpm

ss304, optional galvanized or hardened steel

### Bearing

2 tapered roller bearings to absorb the axial forces  
 Mechanical seal SiC/SiC, independent of rotation direction  
 Interim bearings in drive shaft

### Ex-Zone

Ex-zone 2 (outside the tank)  
 and zone 1 (inside the tank)  
 Classification mechanical components  
  II 2G Ex h IIA T3 Gb

### Control Switch (optional)

Star-delta switch, soft start or frequency converter  
 Delivery without connecting cable

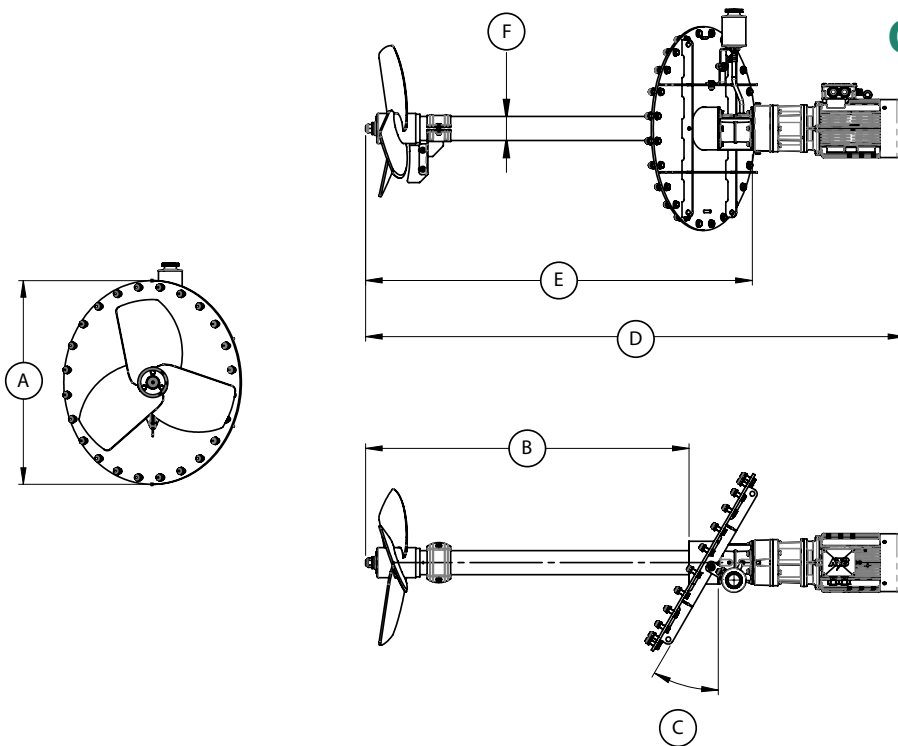
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### Dimensions

Type	A [mm]	B [mm]	C	D [mm]	E [mm]	F [Ø in mm]
FR 40-180	860	875 / 1,375	0° / 10° / 20° / 30°	1,780 / 2,280	1,135 / 1,635	101.6
FR 40-250						
FR 75-280						
FR 75-380						

### 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]	Weight approximate [kg]
FR 40-180	4.0	400	9.8	50	0.72	5.25	180	700	0.85	2.0	44	230
FR 40-250	4.0	400	9.8	50	0.72	3.83	250	620	0.95	2.2	38	230
FR 75-280	7.5	400	13.8	50	0.87	5.25	280	700	2.00	2.6	57	230
FR 75-380	7.5	400	13.8	50	0.87	3.83	380	520	1.35	2.9	35	230

Subject to technical changes

\* measured in water and 1.2 m distance

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