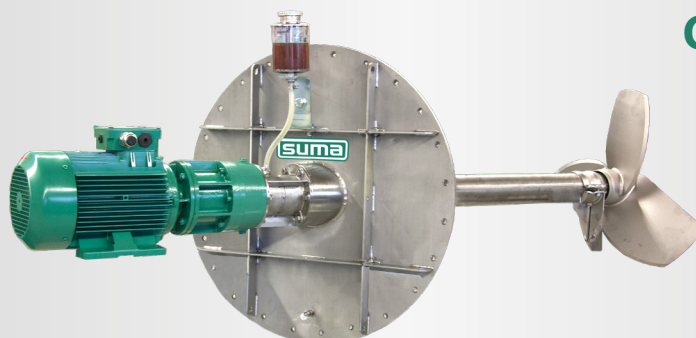




## GIANTMIX FR LIGHT

**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 (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

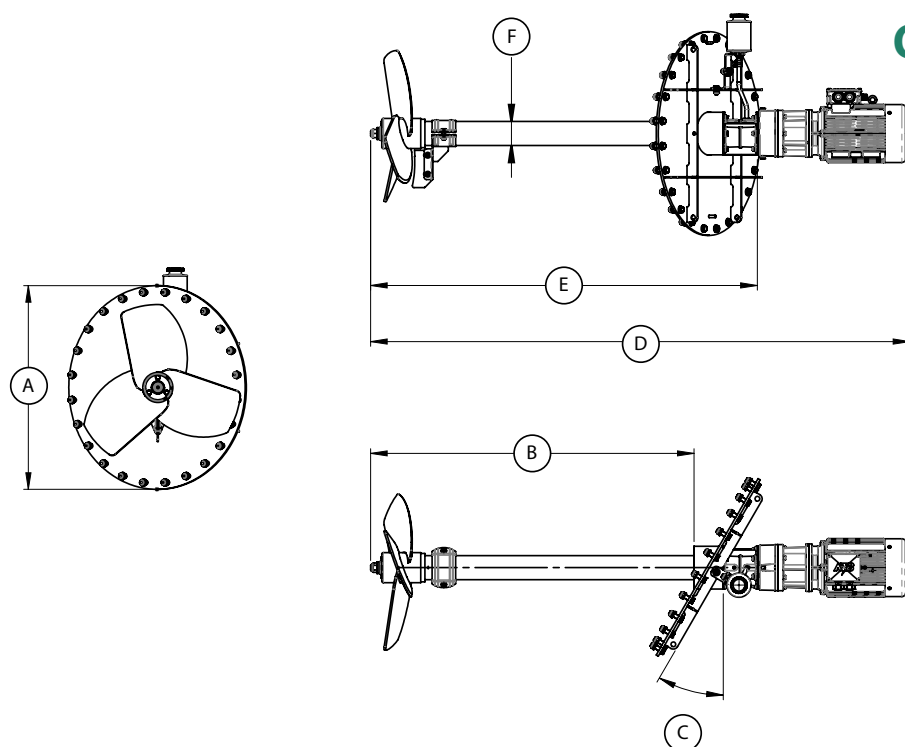
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### Dimensions

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

### 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

As per: 2022-08

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