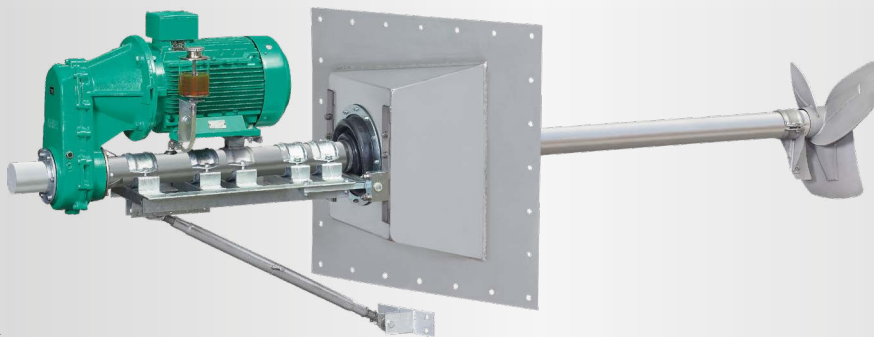


## GIANTMIX FR 30°

FR1 30° 75-240  
 FR3 30° 110-330  
 FR3 30° 110-480  
 FR4 30° 150-330  
 FR4 30° 150-480  
 FR5 30° 185-330  
 FR5 30° 185-480  
 FR6 30° 220-480





### Application

Rod agitator for closed tanks  
 Dry matter content up to 14 %  
 Substrate temperature up to 160 F  
 pH-value 6.5 - 8.2

### Technical data

Tube length 9.8 / 13 ft  
 Agitator shaft Ø 4 x 0.15 in (max. 9.8 ft) or x 0.2 in, ss304  
 ss316 version on request  
 Sealing plate/-frame 3.2x3.2 ft / 3.9x3.9 ft in ss304,  
 ss316 on request  
 Sound pressure 75 dB(A)  
 Sealing membranes of EPDM60  
 Installation up to 5 ft beneath substrate level,  
 deeper immersion depths on request  
 As standard with upper link  
 Oil equalizing container for monitoring the tightness  
 Agitator completely manufactured in modular design  
 POM protection to minimize abrasion

### Motor

10 hp : 8-poles  
 15.0 / 20.0 / 25.0 / 30.0 hp : 4-poles  
 PTC thermistors as overheat protection  
 Ex-Motor  II 3G Ex nA IIC T3 Gc  
 Special design 18.0 hp:  II 2G Ex eb IIC T3 Gb  
 Optional: Rain protection hood (stainless 304)

### Gear

Spur gear drive, helical teeth, low noise level  
 Reduction ratio  $i=3.69$  or  $5.31$   
 Own oil chamber, gear oil SAE 85W-140 / API GL-5  
 Oil change interval all 2,000 operation hours

### Bearing

2 tapered roller bearings to absorb the axial forces  
 Mechanical seal SiC/SiC independent of rotation direction  
 Interim bearings for the drive shaft (slide bearings)

### Propeller

3-blade high efficiency propeller, dynamically balanced

FR1	10 hp	240 rpm	Propeller HD+ 800
FR3	15 hp	330 rpm	Propeller HD+ 660
FR3:	15 hp	480 rpm	Propeller HD+ 500
FR4:	20 hp	330 rpm	Propeller HD+ 750
FR4:	20 hp	480 rpm	Propeller HD+ 540
FR5:	25 hp	330 rpm	Propeller HD+ 780
FR5	25 hp	480 rpm	Propeller HD+ 580
FR6	30 hp	480 rpm	Propeller HD+ 620

ss304, optional ss316 or hardened steel

### Adjustment range

Sealing plate 30° ss304 with tight lateral alignment  
 Vertical inclination ( $\pm 11^\circ$ ) via upper link or optional  
 $\pm 25^\circ$  via rack winch  
 Tank opening: 27.5 x 27.5 in (38.6 in plate)  
 31.5 x 31.5 in (47 in plate)

### Ex-zone

Ex-Zone 2 (outside the tank) and Zone 1 (inside the tank)  
 Special design FR4 18.0 hp for Zone 1 (outside)  
 Classification mechanical components:

  II 2G Ex h IIA T3 Gb

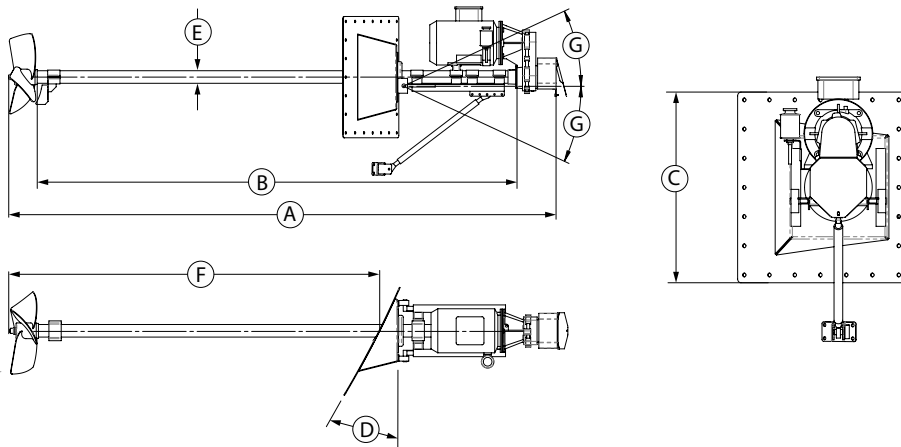
### Controls (optional)

Star-delta switch (up to max. 20 hp),  
 soft start or frequency converter  
 Delivery without connecting cable



## GIANTMIX FR 30°

- FR1 30° 75-240
- FR3 30° 110-330
- FR3 30° 110-480
- FR4 30° 150-330
- FR4 30° 150-480
- FR5 30° 185-330
- FR5 30° 185-480
- FR6 30° 220-480



### Dimensions

Type	A [ft]	B [ft]	C [ft]	D	E [in]	F [ft]	G
FR3 / FR4 / FR5 / FR6	11.5 / 14.8	9.5 / 12.8	3.2	30°	4.0	6.5 / 9.8	± 11° / ± 25°
FR1 / FR3 / FR4 (330 rpm)			3.9				

### Technical data

Type	Rated Power [hp]	Propeller speed [rpm]	Frequency [Hz]	Gear reduction ratio	Propeller diameter [in]	Axial force [lbf]	Flow velocity [ft/s] *	Pumping rate Water [gal/min]	Weight approximate [lbs]
FR1	10.0	240	60	3.69	31.5	450	9.8	23,299	1212
FR3	15.0	330	60	5.31	26.0	517	10.8	17,232	1212
FR3	15.0	480	60	3.69	19.70	495	11.8	10,481	1212
FR4	20.0	330	60	5.31	29.5	696	12.1	25,166	1212
FR4	20.0	480	60	3.69	21.3	606	13.8	14,403	1212
FR5	25.0	330	60	5.31	30.7	764	12.1	27,280	1212
FR5	25.0	480	60	3.69	22.8	719	13.5	16,347	1212
FR6	30.0	480	60	3.69	24.4	854	13.8	19,255	1212

Subject to change without notice

\* measured in water and 3.94 ft distance

As per: 2023-08

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