

GIANTMIX FR 30°

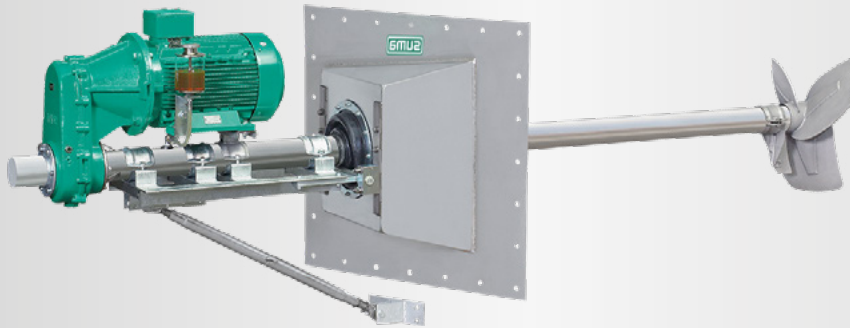
FR3 30° 110-330

FR3 30° 110-480

FR4 30° 150-330

FR4 30° 150-480

FR5 30° 185-480





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 \varnothing 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

15.0 / 20.0 / 25.0 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

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	480 rpm	Propeller HD+ 580

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



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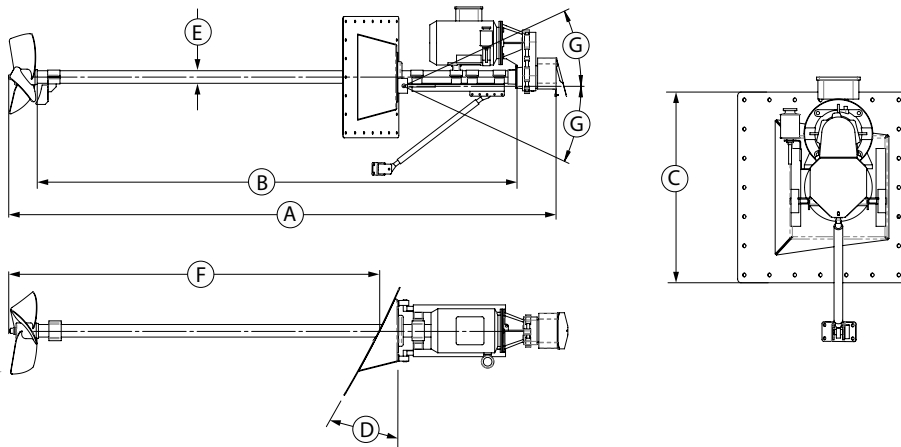
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FR5 30° 185-480



Dimensions

Type	A [ft]	B [ft]	C [ft]	D	E [in]	F [ft]	G		
FR3 / FR4 / FR5	11.5 / 14.8	9.5 / 12.8	3.2	30 °	4.0	6.5 / 9.8	± 11° / ± 25°		
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]
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	480	60	3.69	22.8	719	13.5	16,347	1212

Subject to change without notice

* measured in water and 3.94 ft distance