

GIANTMIX FR STATIONARY

FR3 110-480

FR4 150-480

FR5 185-480



Application

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

Technical Data

Tube length 8.2 / 9.8 ft
 Tube Ø 4.0 x 0.15 in or 0.2 in, ss304
 Sound pressure level 75 dB(A)
 Installation up to 26.3 ft below substrate level possible, deeper immersion depths on request
 Oil inspection glas for monitoring the tightness
 Option: Rubber compression seal Ø 7.9 in, galvanized
 Agitator completely in modular design
 POM protection to minimize abrasion

Motors

15 / 20 / 25 hp : 4 poles
 PTC thermistors as overheat protection
 Ex-Motor (Series) II 3G Ex nA IIC T3 Gc
 Special version with 18.0 hp II 2G Ex eb IIC T3 Gb
 Option: stainless 304 rain protection hood

Gear

Spur gear drive, helical teeth, low noise level
 Reduction ratio $i = 3.69$
 Isolated oil circuit, gear oil SAE85W-140 / API GL-5
 2,000 operating hours between oil changes

Bearing

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

Propellers

3-blade high efficiency propeller, dynamically balanced

FR3:	15 hp	480 rpm	propeller HD+ 480
FR4:	20 hp	480 rpm	propeller HD+ 520
FR5:	25 hp	480 rpm	propeller HD+ 560

in ss304, ss316 or hardened steel

Ex-Zone

Ex-Zone 2 (outside the tank) and Zone 1 (inside the tank)
 Special version FR4 with 18 hp for Zone 1 (outside tank)
 Classification mechanical components:
 II 2G Ex h IIA T3 Gb

Control box (optional)

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

Installation

Steel base (included in delivery) on concrete pad

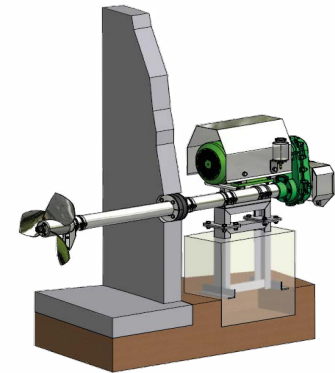
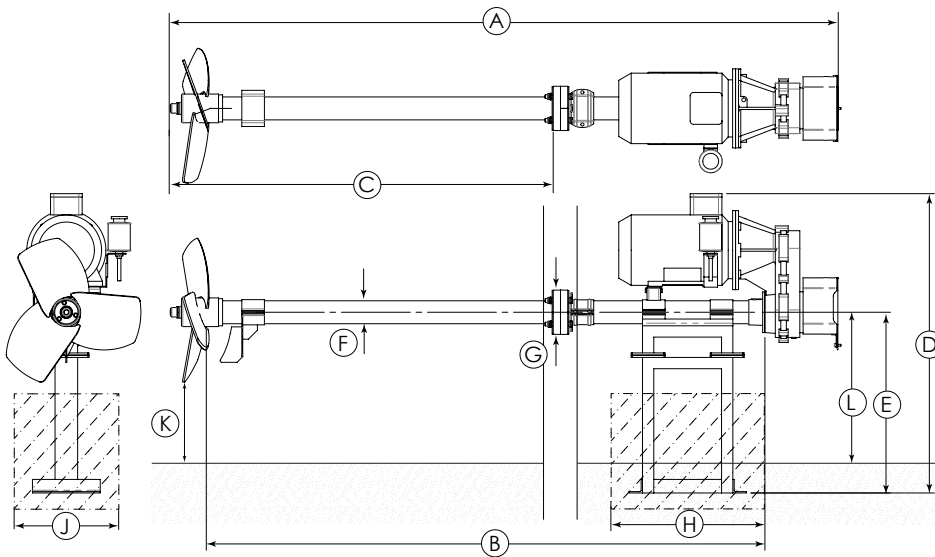


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Dimensions

Type	A [ft]	B [ft]	C [ft]	D [in]	E [in]	F [in]	G [in]	H [in]	J [in]	K [in]	L [in]
FR 3-5	9.8 / 11.5	8.2 / 9.8	5.2 / 6.9	52.2	31.5	4	7.9	31.5	19.7	Min. 11.8	27.6

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	480	60	3.69	18.9	404	10.5	8,453	661
FR4	20.0	480	60	3.69	20.5	517	12.5	12,152	661
FR5	25.0	480	60	3.69	22.0	674	13.8	15,586	661

Subject to change without notice

* measured in water and 3.94 ft distance

As per: 2023-08

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