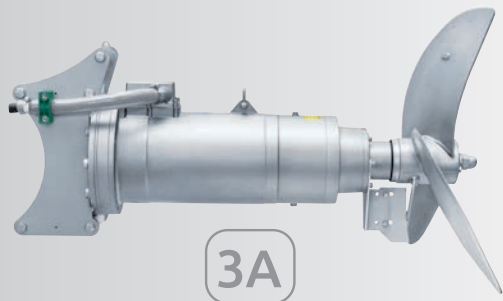


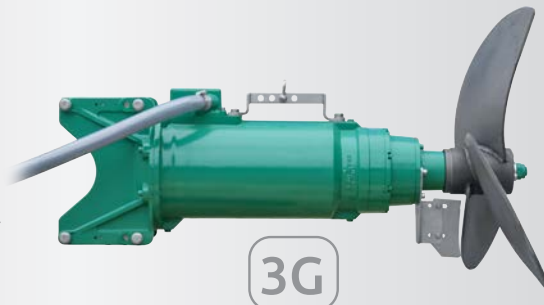
## OPTIMIX

3A 220-325

3G 220-325



3A



3G



### Application

Submersible motor for liquid tanks with dry matter content up to 12 % and substrate temperature up to 55°C  
pH levels depending on material of housing:

3G:	cast iron:	pH 6.5 - 8.2
3A:	stainless 304:	pH 5.5 - 8.2
	stainless 316:	pH 4.5 - 8.2

### Motor

Motor: 30 hp (22 kW), 60Hz  
Protection class IP 68, pressure resistant 33 ft  
Overheat protection  
Isolated oil circuit, turbine oil

### Gear

Sturdy planetary gear,  
Reduction ratio  $i = 5.35$   
Isolated oil circuit, longlife gear oil  
8,000 operating hours between oil changes

### Bearing

SiC/SiC mechanical seal for bearing housing with two tapered roller bearings to absorb axial forces  
Shaft in hardened steel  
Bearing flange with isolated oil circuit filled with longlife gear oil  
POM protective sleeve  
8,000 operating hours between oil changes

### Ex zone

Authorized for Ex-Zone 2  
ATEX Classification II 3G Ex ec h IIA T3 Gc

### Propeller

3-blade propeller, dynamically balanced  
Optimix | 30 hp (22 kW) | 325 rpm | propeller HD+ 800  
3G: material: hardened steel  
3A: material: stainless 304

optional materials: stainless 316, hardened steel, polymer coated, Tungsten carbide or galvanized

### Guide mast connection

4 roller guide bracket for 4" x 4" or 6" x 6" stainless mast  
Various metric mast sizes

### Corrosion protection

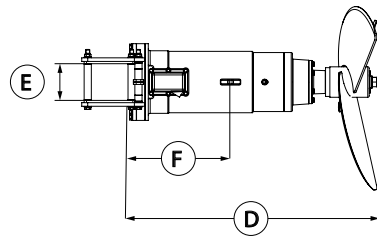
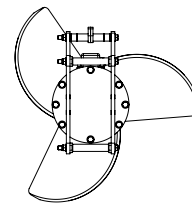
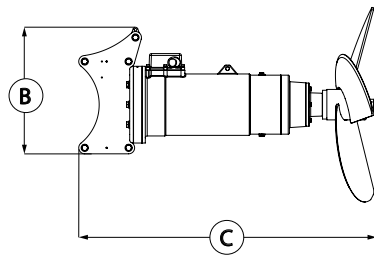
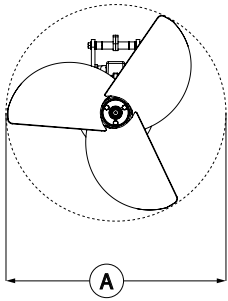
Ductile cast iron housing (GGG40) (G-series), stainless 304 or 316 (A-series)  
Agitator has a two component epoxy coating (G-series)  
Agitator is galvanically isolated from the guide mast

### Electric cable

Standard length is 33', other lengths upon request  
Microbe resistant jacket  
Maximum load 180 lbs

### Control (optional)

Soft start or frequency converter



### Dimensions

Type	A [in]	B [in]	C [in]	D [in]	E [in]	F [in]					
3A 220-325	31.5	20.9	50.4	41.5	4 / 6	16.9					
3G 220-325	31.5	15.7	50.4	43,3	4 / 6	14.6					

### Technical data

Type	Rated Power [hp]	Frequency [Hz]	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [in]	Axial force [lbf]	Flow velocity ft/s *	Pumping rate [gal/min]	Weight approx. [lbs]			
3A / 3G 220-325	30	60	5.35	325	31.5	966.7	14.1	33,021	573			

Subject to change without notice  
 \* measured in water and 4' distance