



Submersible Agitator Optimix 2G 90-90



Powerful
Innovative design
High efficiency

Application

Water and wastewater treatment
Denitrification
The Optimix 2G 90-90 leads to a laminar flow
Dry matter content up to 12 %
Substrate temperature up to 55°C
pH-value 6.5 - 8.2

Motor

Power: 12 hp
60 Hz, other voltages on request
Protection class IP 68, up to 32.8 ft submergence
3 x PTC 130°C in windings for thermal protection
Own oil circulation, turbine oil

Gear & Bearing

Robust, two stage planetary gear
Reduction ration $i = 19.6$
Mechanical seal SiC/SiC
Two tapered-roller bearings for axial and radial loads
Hardened steel spline shaft, $\varnothing 2$ in.
Separate oil fill with long life gear oil
Oil change interval 12,000 operation hours

Ex-Zone

Authorized for Ex-Zone 2
ATEX Classification C E II 3G Ex nAck IIA T3 Gc

Propeller

3-blade high efficiency propeller, dynamically balanced
Optimix 2G 90-90 12 hp / Propeller LT 1400 / 90 rpm
Standard painted, optional ss 304 (V2A) or hardened steel

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment.
Depending version, available for 4 / 4.7 / 6 in square mast
Special sizes on request

Corrosion protection

Ductile cast iron housing (GGG40)
Agitator has an two component epoxy coating
Agitator is galvanically isolated from the guide mast

Electric Cable

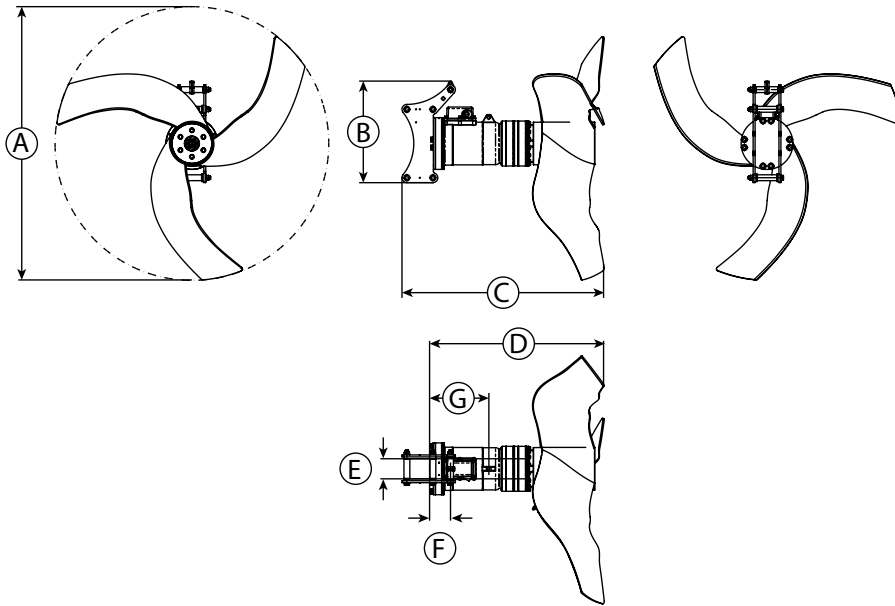
Microbe and abrasion resistant cable
7 x 0.16 in² + 2 x 0.06 in², $\varnothing 0.8$ in,
Standard length 33 ft,
Pressed-on cable gland,
Strain relief 800 N

Control box (optional)

Soft start or frequency converter



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Dimensions										
Type	A [in]	B [in]	C [in]	D [in]	E [in]	F [in]	G [in]			
2G 90-90	55	20.5	48.2	41.7	4 / 4.7 / 6	4	11.5			

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]	
2G 90-90	12 hp	60	19.6	90	39.4	809.3	7.2	323,795	441	

Subject to technical changes

* measured in water with a distance of 3.9 ft