

## Stainless steel mixer / aerator PODBR-I

Landia self-aspirating mixer / aerator of acidproof stainless steel, available in 4.9 to 17.9 HP and with a specially designed venturi system.

Very simple, effective system for mixing and aeration of wastewater and other liquids in industry and agriculture. Numerous application possibilities, such as mixing / aeration of wastewater, drinking water, fish ponds. Air injection and mixing of chemicals.



- Propeller designed for optimum flow and mixing.
- Specially designed venturi system for aspiration of air at a liquid depth of max. 13 ft.
- Motor casing / oil chamber of acidproof stainless steel (AISI 316).
- Extremely resistant sealing systems, available in optional materials for aggressive, corrosive or abrasive liquids.
- Pressure tested waterproof motor casing, IP 68 rated.
- Stator in insulation class F, thermal sensors embedded in windings.
- Mast systems are available with multiple mounting and adjustment configurations, and can be customized per the application requirements.

**Quality in every detail**

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## ■ Performance and specifications:

Article no. (460 V)	Motor size HP	Motor series	Motor rpm	Propeller rpm	Performance approx. gpm	Weight lb
1324203	4.9	100R	1800	1800	2640	130
1324204	6.5	100R	1800	1800	3740	136
1324207	12.2	132R	1800	1800	7040	247
1324211	17.9	132R	1800	1800	9900	262
1322204	6.5	100R	3600	3600	2640	120
1322205	9.0	100R	3600	3600	3520	130
1322211	17.9	132R	3600	3600	6160	260

## ■ Motor:

3-phase AC motor, 60 Hz, voltage: 460V.

Maximum air injection depths: for 1800 rpm 8 ft. and for 3600 rpm 13 ft.

Please always state required air injection depth as the propeller size depends on it. The air supply decreases the deeper the unit is submerged, whereas oxygen absorption of the liquid improves with increasing counter pressure (liquid depth). Best possible oxygen absorption is obtained at high propeller revolutions (3600 rpm) as this results in smaller bubbles and larger quantities of air supply, although mixing is not quite as good compared with 1800 rpm.

## ■ Materials:

Motor casing: acidproof stainless steel (AISI 316)  
Oil chamber: acidproof stainless steel (AISI 316)  
Propeller /  
venturi: stainless steel (AISI 304)  
Motor shaft: steel AISI 4340 Corrosion proof encasement against medium  
Screws: acidproof stainless steel

## ■ The following information should be given with each inquiry:

- purpose of application
- dimensions of silo/tank
- type of liquid
- dry matter content
- temperature
- operating frequency
- operation depth
- Performance data available upon request

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