

## Mixer / aerator PODB-I

Landia self-aspirating mixer / aerator, available in 1.8 to 30.2 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 2 component coated.
- Propeller and venturi nozzle of stainless steel.
- 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.
- Available with explosion proof motor.
- Most systems are available with multiple mounting and adjustment configurations, and can be customized per the application requirements.

**Quality in every detail**

# Mixer / aerator

## PODB-I

### ■ Performance and specifications:

Article no. (460 V)	Motor size HP	Motor series	Motor rpm	Propeller rpm	Performance approx. gpm	Weight lb
1324398	1.8	80	1800	1800	1000	70
1324301	2.4	80	1800	1800	1150	80
1324302	3.6	90	1800	1800	1980	85
1324304	6.5	100	1800	1800	3740	136
1324305	9.0	112	1800	1800	5060	154
1324307	12.2	132	1800	1800	7040	247
1324311	17.9	132	1800	1800	9900	262
1324315	24.5	160	1800	1800	13640	315
1324318	30.2	160	1800	1800	16720	389
1322301	2.4	80	3600	3600	930	70
1322303	4.9	90	3600	3600	1980	87
1322304	6.5	100	3600	3600	2640	120
1322305	9.0	100	3600	3600	3520	130
1322307	12.2	112	3600	3600	4840	165
1322311	17.9	132	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:	cast iron AISI A48-40B, 2-component coated
Oil chamber:	cast iron AISI A48-40B, 2-component coated
Propeller & venturi:	stainless steel AISI 304
Motor shaft:	steel AISI 4340 sealed against the liquid
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.

The text and technical data given may not be reproduced partly or completely without permission from Landia A/S  
We reserve the right to make technical alterations.  
CD00A.C15-15.06.01



**Landia Inc.**  
111 Triangle Trade Drive  
Cary, NC 27513  
Phone: 919 466 0603  
Fax: 919 460 1666  
E-mail: [info@landiainc.com](mailto:info@landiainc.com)  
[www.landia.dk](http://www.landia.dk)