

Stainless steel mixer/aerator PODBR-I

Landia self-aspirating mixer/aerators in acidproof stainless steel with motors from 3,0 to 11,0 kW and specially constructed venturi system. Very simple, effective system for mixing and aerating of waste water and other liquids in industry and agriculture. Numerous application possibilities such as mixing/aeration of waste water, drinking water, fish ponds. Air injection and mixing of chemicals in powder form.



- Propeller shaped for optimal flow and mixing.
- Specially constructed venturi system for aspiration of air in max. 4 m liquid depth.
- Motor housing/oil chamber of acidproof stainless steel (AISI 316).
- Extremely resistant sealing systems, available in different versions for aggressive, corrosive or abrasive liquids.
- Pressure tested waterproof motor housing, in protection class IP 68.
- Stator in insulation class F, thermal sensors in windings.
- Extensive mounting and operating equipment programme in stainless steel.

Quality in every detail

Stainless steel mixer/aerator

PODBR-I

■ Performances and specifications:

Article no. (400 V)	Motor size kW	Motor series	Motor rpm	Propeller rpm	Performance approx. m ³ /h	Weight kg
1314203	3,0	100R	1500	1500	600	60
1314204	4,0	100R	1500	1500	850	62
1314207	7,5	132R	1500	1500	1600	114
1314211	11,0	132R	1500	1500	2250	121
1312204	4,0	100R	3000	3000	600	55
1312205	5,5	100R	3000	3000	800	61
1312211	11,0	132R	3000	3000	1400	120

■ Motor:

3-phase AC motor 50 Hz. Voltage: 400V.

Maximum air injection depths: for 1500 rpm 2,5 m and for 3000 rpm 4,0 m

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 (3000 rpm) as this results in smaller bubbles and larger quantities of air supply, although mixing is not quite as good compared with 1500 rpm. Different propeller mounting i.e. if lower consumption is required.

■ Materials:

Stator housing: acidproof steel AISI 316
Oil chamber: acidproof steel AISI 316
Propeller: Stainless steel AISI 304
Venturi: acidproof steel AISI 316
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
 - expected periods/-intervals
 - operation depth
- Diagrams concerning air quantities injected in different liquid depths are available.

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AD00B.C15-08.06.04



Landia A/S
Industrivej 2
DK-6940 Lem St.
Tel.: +45 97 34 12 44
Fax: +45 97 34 16 98
e-mail: info@landia.dk
www.landia.dk