

Mixer/aerator PODB-I

Landia self-aspirating mixer/aerators with motors from 1,1 to 18,5 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.
- 2 component coated.
- Propeller and venturi nozzle of stainless steel.
- 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.
- Can be supplied with explosion proof motor.
- Extensive mounting and operating equipment programme, also in stainless steel or according to individual requirements.

Quality in every detail

Mixer/aerator

PODB-I

■ Performances and specifications:

Article no. (400 V)	Motor size kW	Motor series	Motor rpm	Propeller rpm	Performance approx. m ³ /h	Weight kg
1314398	1,1	80	1500	1500	230	32
1314301	1,5	80	1500	1500	230	34
1314302	2,2	90	1500	1500	450	39
1314304	4,0	100	1500	1500	850	62
1314305	5,5	112	1500	1500	1150	70
1314307	7,5	132	1500	1500	1600	114
1314311	11,0	132	1500	1500	2250	121
1314315	15,0	160	1500	1500	3100	145
1314318	18,5	160	1500	1500	3800	179
1312301	1,5	80	3000	3000	210	31
1312303	3,0	90	3000	3000	450	40
1312304	4,0	100	3000	3000	600	55
1312305	5,5	100	3000	3000	800	61
1312307	7,5	112	3000	3000	1100	77
1312311	11,0	132	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:

Motor housing:	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:

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|---|---|---|
| <ul style="list-style-type: none"> • purpose of application • dimensions of silo/tank • type of liquid • dry matter content | <ul style="list-style-type: none"> • temperature • expected periods/-intervals • operation depth | Diagrams concerning air quantities injected in different liquid depths are available. |
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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