

Submersible Mixer Type ABS XRW 300

Compact submersible mixer, designed to achieve an optimum flow pattern in a wide range of mixing and stirring applications, in large tanks and open waters.

Construction

The submersible mixer is designed as a compact, water-pressure-tight unit, including propeller and integrally casted installation bracket for attachment to a square guide tube. The mixer is available in cast iron (EC) and stainless steel (CR) versions.

Maximum allowable temperature of the medium for continuous operation is 40 °C.

Motor

Premium Efficiency IE3, three-phase, squirrel-cage motor; 400 V *, 50 Hz, 6-pole. Protection type IP68, with stator insulation Class H.

Direct on line (DOL). Max. submergence 20 m.

* other voltages available

Propeller

Technically optimized, axially operating 2- or 3-blade propeller, designed to achieve high thrust and therefore a high flow capacity in an axial direction. The propeller is self-cleaning and so ensures vibration-free operation.

Solids deflection ring

The solids deflection ring protects the mechanical seal from damage by ingress of solid or fibrous matter.

Bearings

All bearings are lubricated-for-life and maintenance-free, with a calculated lifetime of more than 100 000 h.

Shaft sealing

Sic-Sic mechanical seal at medium side.
NBR O-rings and lip seals.

Seal monitoring

DI-system with sensors in the oil chamber (not in Ex version), motor chamber, and cable connection chamber.

Temperature monitoring

Thermal sensors in the stator which open at 140 °C.

Cable

10 m sewage resistant material.

Optional lengths (m): 15, 20, 30, 40, 50.

Options

Explosion-proof version, additional seal (C-Cr) at motor side, flow ring, seals in viton, EMC cable, PTC thermistor in stator, vertical angle adjustment, vortex shield, lifting hoop, vibration damper

Weight

XRW-PA 15/6 = 62 kg;

XRW-PA 29/6 = 82 kg.

With flow ring add 11 kg.



50 Hz

Motor Data

Motor	PA 15/6	PA 29/6
Rated power (kW)	1.5	2.9
Rated current at 400 V (A)	3.5	7.3
Speed (r/min)	958	971
Motor efficiency (%)	81.4	83.7
Power factor	0.77	0.72

Mixer performance

Hydraulic No.	Mixer power P_p in kW	Motor kW
3021	1.04	1.5
3022	1.30	1.5
3023	1.42	1.5
3031	1.71	2.9
3032	2.27	2.9
3033	2.80	2.9

Materials

Part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250 painted	1.4404 (AISI 316L)
Sliding bracket	EN-GJL-250 painted / polyamide (CF-8M)	1.4408 / polyamide (CF-8M)
Motor shaft	1.4021 (AISI 420)	1.4401 (AISI 316)
Propeller	1.4460 (AISI 329)	1.4460 (AISI 329)
Fasteners	1.4401 (AISI 316)	1.4401 (AISI 316)
Lifting band	1.4404 (AISI 316L)	1.4404 (AISI 316L)

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