

Submersible Mixer Type ABS XRW 900

The compact submersible mixers have been designed for a wide range of applications. They are suitable to achieve flow pattern in large tanks and open waters for mixing and stirring applications.

Construction

The submersible mixer is designed as a compact, water-pressure-tight unit including propeller and integrally casted installation bracket for attachment on the square guide tube. Different versions with an open, closed bracket or a flow ring can be chosen. The mixers are available in two standard material versions; cast iron (EC), and stainless steel (CR). Maximum allowable temperature of the medium for continuous operation is 40 °C (104 °F).

Motor

Premium Efficiency IE3, squirrel cage, 3-phase, 4-pole, 60 Hz, insulation Class F (155 °C / 311 °F), max. submergence 20 m (66 ft).

Propeller

Technically optimized, axially operating 3-blade propellers with very good self-cleaning effect for vibration-free operation. The propellers are designed to achieve high thrusts and therefore a high flow capacity in axial direction.

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.

Gearbox

High efficiency planetary gearbox, fatigue strength with a calculated lifetime more than 100 000 h.

Shaft sealing

Mechanical seal: Silicon carbide / Silicon carbide.
O-Rings / lip seals: NBR.

Seal monitoring

Leakage sensor (DI) in the junction box, oil chamber*, and motor.

* not in FM version.

Temperature monitoring

Thermal sensors in the stator which open at 140 °C (284 °F).

Cable

10 m (33 ft) sewage resistant material.

Optional lengths: 15 m (49 ft), 20 m (66 ft), 30 m (98 ft), 40 m (131 ft), 50 m (164 ft).

Options

Explosion-proof version, flow ring, seals in viton, PTC in the stator, vibration damper, lifting bracket, additional seal (C-Cr) at motor side, EMC cable.



60 Hz

Weight

XRW 900	Weight (kg)	Weight (kg) with flow ring
PA 130/4	250 kg (551 lbs)	320 kg (705 lbs)
PA 170/4	285 kg (628 lbs)	355 kg (782 lbs)
PA 250/4	310 kg (683 lbs)	380 kg (837 lbs)

Motor Data

Motor	PA 130/4	PA 170/4	PA 250/4
Rated power (kW / hp)	13.0 / 17.4	17.0 / 22.8	25.0 / 33.5
Rated current at 460 V (A)	21.8	28.8	43.2
Speed (rpm)	254 ²	254 ² / 295 ¹	295 ¹
Motor efficiency (%)	92.1	92.3	92.1
Power factor	0.77	0.76	0.75

¹ = gear ratio i = 6; ² = gear ratio i = 7

Mixer performance

Hydraulic No.	Mixer power P _p in kW / hp	Motor kW
9032	8.1 / 10.8	13.0 / 17.4
9033	9.2 / 12.2	13.0 / 17.4
9034	9.8 / 13.0	13.0 / 17.4
9035	11.6 / 15.5	17.0 / 22.8
9033	13.2 / 17.6	17.0 / 22.8
9034	14.6 / 19.6	25.0 / 33.5
9035	18.4 / 24.6	25.0 / 33.5

Materials

Part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250; EN 1561 painted	1.4404 (AISI 316 L)
Sliding bracket	EN-GJL-250 painted / polyamide (CF-8M)	1.4470 / polyamide (CF-8M)
Motor / Propeller shaft	1.4021 / EN-GJS-700-3	1.4021 / EN-GJS-700-3
Propeller	1.4571 (AISI 316 Ti)	1.4571 (AISI 316 Ti)
Fasteners	1.4401 (AISI 316)	1.4401 (AISI 316)

Material comparison

EU	USA
EN 1561; EN-GJL-250	ASTM A48; Class 35 B
EN 1563; EN-GJS-700-3	ASTM A536, 100-70-03
ST 60/ 1.0060	ASTM - AISI A276 Gr. 65
1.4021	ASTM - AISI 420
1.4401 / 1.4470	ASTM - AISI 316 / -A 890 4A
1.4404	ASTM - AISI 316 L

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