

# Submersible Mixer Type ABS XRW 900

The compact submersible mixers have been designed for a wide range of applications. The units are suitable to achieve a 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 the 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.

## Motor

Premium Efficiency IE3, squirrel cage, 3-phase, 4-pole, 50 Hz, insulation class F (155 °C), max. submergence 20 m.

## 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 life time 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 Ex version.

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



50 Hz

## Weight

XRW 900	Weight (kg)	Weight (kg) with flow ring
PA 110/4	250 kg	320 kg
150/4	285 kg	355 kg
220/4	310 kg	380 kg

## Motor Data

Motor	PA 110/4	PA 150/4	PA 220/4
Rated power (kW)	11.0	15.0	22.0
Rated current at 400 V (A)	21.7	29.9	44.8
Speed (r/min)	246 <sup>1</sup>	246 <sup>1</sup> / 295 <sup>2</sup>	295 <sup>2</sup>
Motor efficiency (%)	92.1	92.3	92.1
Power factor	0.79	0.78	0.77

<sup>1</sup> = gear ratio i = 6; <sup>2</sup> = gear ratio i = 5

## Mixer performance

Hydraulic No.	Mixer power P <sub>p</sub> in kW	Motor kW
9032	7.2	11.0
9033	8.1	11.0
9034	8.9	11.0
9035	10.6	15.0
9033	13.1	15.0
9034	14.6	22.0
9035	18.5	22.0

## Materials

Part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250 painted	1.4404 (AISI 316 L)
Sliding bracket	EN-GJL-250 painted / polyamide (CF-8M)	1.4470 / polyamide (CF-8M)
Motor 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)

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