ABS submersible mixer RW 900

POMPDIRECT

50 Hz

The compact ABS submersible mixers have been designed for a wide range of applications. The units 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 the attachment on the square guide tube. Different versions with a bracket for vertical angle adjustment, a flushing system (option) for the mechanical seal and / or a flow ring can be chosen. The mixers are available in two standard material versions: **EC = cast iron version, CR = stainless steel version**

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

Bearings
All bearings are lubricated-for-life and maintenance-free, with a calculated life time 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: DI-system with a sensor in the junction box.

Temperature monitoring: TCS-Thermo-Control-System with thermal sensors in the stator which open at 140 °C.

Cable: 10 m sewage resistant CSM material. Type: H07RN.

Options: Explosion-proof version, flow ring, seals in viton, cable protection sleeve, PTC or PT 100 in the stator.

Accessories: Lifting bracket, vertical angle adjustment, flush system for the mechanical seal.

Weight: Without flow ring: 180/185/210 kg. With flow ring: 258/263/288 kg.

Motor data

Motor	A110/4	A150/4	A220/4
Rated power (kW)	11.0	15.0	22.0
Rated current at 400 V (A)	22.1	31.3	43.9
Speed (min^{-1})	238[1]	238[1]/285[2]	285[2]
Motor efficiency (%)	84	84	85
Power factor	0.86	0.82	0.85

1 = gear ratio i = 6, 2 = gear ratio i = 5

Mixer performance table

Hydraulic No.	Mixer power P_P in kW	Motor kW
9032	7.0	11.0
9033	7.8	11.0
9034	8.4	11.0
9035	10.2	15.0
9033	11.5	15.0
9034	14.4	22.0
9035	18.5	22.0
9052*	5.6	11.0
9053*	6.3	11.0
9054*	6.8	11.0
9055*	8.2	15.0
9053*	9.0	15.0
9054*	11.3	22.0
9055*	13.9	22.0

*with flow ring

Materials

Part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250, painted	1.4571 (AISI 316)
Sliding bracket	EN-GJS-400-18 painted, polyamide	1.4408 / polyamide (CF-8M)
Motor shaft/Propeller shaft	St 60/EN-GJS-600-3	St 60/EN-GJS-600-3
Propeller	1.4571 (AISI 316)	1.4571 (AISI 316)
Fasteners	1.4401 (AISI 316)	1.4401 (AISI 316)

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