

Submersible Mixer Type ABS RW 400

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 attachment on a square guide tube. Different versions with a bracket for vertical angle adjustment 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. Maximum allowable temperature of the medium for continuous operation is 40 °C.

Motor

Squirrel cage, 3 phase, 8 pole, 50 Hz, insulation class F (155 °C), max. submergence 20 m.

Propeller

Technically optimized, axially operating 2- or 3-blade propellers, with very good self-cleaning effect, for vibration-free operation. The propellers are designed to achieve high thrust and therefore a high flow capacity in an 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.

Shaft sealing

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

Seal monitoring

DI system with a sensor in the oil chamber (not in Ex version) and 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, flow ring, seals in viton, EMC cable, double MS, PTC or PT 100 in the stator.

Accessories

Lifting hoop, vertical angle adjustment, vibration damper, vortex shield.

Weight:

Without flow ring: 92 kg.
With flow ring: 106 kg.



50 Hz

Mixer performance

Hydraulic No.	Mixer power (P_p in kW)	Motor (kW)
4021	1.1	3.0
4022	1.3	3.0
4023	1.6	3.0
4024	2.0	3.0
4031	2.6	4.0
4032	3.0	4.0
4033	3.5	4.0
4041*	0.8	3.0
4042*	1.0	3.0
4043*	1.3	3.0
4044*	1.6	3.0
4051*	2.1	4.0
4052*	2.4	4.0
4053*	2.8	4.0

* with flow ring

Motor Data

Motor	A 30/8	A 40/8
Rated power (kW)	3.0	4.0
Rated current at 400 V (A)	9.3	10.9
Speed (r/min)	703	680
Motor efficiency (%)	71.5	71.2
Power factor	0.65	0.74

Materials

Part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250, painted	Stainless steel 1.4404 (AISI 316L)
Sliding bracket	EN-GJL-250/EN-GJS-400-18 painted, polyamide	Stainless steel 1.4408 / polyamide (CF-8M)
Motor shaft	Stainless steel 1.4021 (AISI 420)	Stainless steel 1.4404 (AISI 316L)
Propeller	Stainless steel 1.4571 (AISI 316Ti)	Stainless steel 1.4571 (AISI 316Ti)
Fasteners	Stainless steel 1.4401 (AISI 316)	Stainless steel 1.4401 (AISI 316)

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