ABS submersible mixer RW 400

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, 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 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 solid or fibrous matter.

Bearings
All bearings are lubricated-for-life and maintenance-free, with a calculated life time of 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 oil chamber and 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: HO7RN.

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, shock absorber, vortex shield, flush system for the mechanical seal.

Weight: Without flow ring: 96 kg. With flow ring: 102 kg.

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 (min^{-1})	702	680
Motor efficiency (%)	72	71
Power factor	0.65	0.74

Mixer performance table

Hydraulic No.	Mixer power P_2 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

Materials

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

abs
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T 0294-457712 F 0294-457713 info@pompdirect.nl