

# Submersible Mixer Type ABS RW 300

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 a bracket for vertical angle adjustment 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 (104 °F).

### Motor

Squirrel cage, 3-phase, 6-pole 60 Hz, insulation class F (155 °C / 311 °F), max. submergence 20 m (66 ft).

### 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 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).

### Temperature monitoring

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

### Cable

10 m (32.8 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, EMC cable, double MS, PTC in the stator.

### Accessories

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

### Weight

Without flow ring: 47 / 51 kg (103 / 112 lbs).

With flow ring: 53 / 57 kg (117 / 126 lbs).



60 Hz

### Mixer performance

Hydraulic No.	Mixer power P <sub>p</sub> in kW (hp)	Motor (kW / hp)
3021	1.1 (1.5)	1.7 (2.3)
3022	1.5 (2.0)	1.7 (2.3)
3031	1.7 (2.3)	3.2 (4.3)
3032	2.6 (3.5)	3.2 (4.3)
3041*	0.9 (1.2)	1.7 (2.3)
3042*	1.1 (1.5)	1.7 (2.3)
3051*	1.4 (1.9)	3.2 (4.3)
3052*	2.1 (2.8)	3.2 (4.3)

\* with flow ring

### Motor Data

Motor	A 17/6	A 32/6
Rated power (kW / hp)	1.7 (2.3 hp)	3.2 (4.3 hp)
Rated current at 460 V (A)	4.3	8.8
Speed (rpm)	1111	1097
Motor efficiency (%)	72	73
Power factor	0.69	0.69

## 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 1.4460 (AISI 329)	Stainless steel 1.4460 (AISI 329)
Fasteners	Stainless steel 1.4401 (AISI 316)	Stainless steel 1.4401 (AISI 316)

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