

Submersible Mixer Type ABS XRW 400

Compact, submersible, stainless steel mixer, designed to achieve an optimum flow pattern in a wide range of mixing and stirring applications, in large tanks and open waters.

Construction

Premium Efficiency, IE3 equivalent, sensorless permanent-magnet motor with high overload capacity; 60 Hz; 10-pole; 480 V* using variable frequency drive (VFD) control. Protection type IP 68, with stator insulation Class F. Start-up: variable frequency drive (VFD) Max. submergence 20 m (66 ft).

*other voltages available

Motor

Premium Efficiency, IE3 equivalent, sensorless permanent-magnet motor with high overload capacity; 50 Hz; 10-pole; 400 V* using variable frequency drive (VFD) control. Protection type IP 68, with stator insulation Class F. Start-up: variable frequency drive (VFD) Max. submergence 20 m.

* other voltages available

Propeller

Technically optimized, axially operating 3-blade propeller, designed to achieve high thrust and therefore a high flow capacity in an axial direction. The propeller is self-cleaning and so ensures vibration-free operation.

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

Sic-Sic mechanical seal at medium side.
NBR O-rings and lip seals.

Seal monitoring

DI-system with sensors in the oil**, motor and cable connection chambers.

** not in Ex version.

Temperature monitoring

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

Cable

10 m (33 ft) sewage-resistant, shielded, VFD power cable type 37-102VFD.

Optional lengths (m): 15, 20, 30, 40, 50.

Options

Explosion-proof version, additional seal (C-Cr) at motor side, flow ring, seals in viton, vertical angle adjustment, vortex shield, vibration damper, lifting hoop.

Weight

80 kg (176 lbs). With flow ring add 10 kg (22 lbs).



60 Hz

System Data

Motor	PM 30/10	PM 50/10
Rated power (kW/hp)	3.0 / 4.0	5.0 / 6.7
Motor efficiency (%)	90.7	88.9
Variable Frequency Drive (VFD)	A	B
Rated power (kW/hp)	4.0 / 5.4	5.5 / 7.4
Rated current (A) at 480 V	8.1	10.9
Total system efficiency (%)	88.0	86.5

Mixer performance

Hydraulic No.	Mixer power P_p in kW/hp	Motor kW/hp
4031 A	1.2 / 1.6	3.0 / 4.0
4032 A	1.5 / 2.0	3.0 / 4.0
4033 A	1.8 / 2.4	3.0 / 4.0
4034 A	2.2 / 3.0	3.0 / 4.0
4035 A	2.6 / 3.5	3.0 / 4.0
4031 B	3.0 / 4.0	5.0 / 6.7
4032 B	3.5 / 4.7	5.0 / 6.7
4033 B	4.0 / 5.4	5.0 / 6.7
4034 B	4.5 / 6.0	5.0 / 6.7
4051 A*	1.2 / 1.6	3.0 / 4.0
4052 A*	1.5 / 2.0	3.0 / 4.0
4053 A*	1.8 / 2.4	3.0 / 4.0
4054 A*	2.2 / 3.0	3.0 / 4.0
4055 A*	2.6 / 3.5	3.0 / 4.0
4051 B*	3.0 / 4.0	5.0 / 6.7
4052 B*	3.5 / 4.7	5.0 / 6.7
4053 B*	4.0 / 5.4	5.0 / 6.7
4054 B*	4.5 / 6.0	5.0 / 6.7

*with flow ring

Materials

Part	Material
Motor housing	1.4404 (AISI 316 L)
Sliding bracket	1.4470 (AISI 329) / polyamide (CF-8M)
Motor shaft	1.4401 (AISI 316)
Propeller	1.4571 (AISI 316 Ti)
Fasteners	1.4401 (AISI 316)
Lifting band	1.4571 (AISI 316 Ti)

[sulzer.com](https://www.sulzer.com)

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