

## Submersible Mixer Type ABS XRW 650

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

The submersible mixer is designed as a compact, water-pressure-tight unit, including propeller and integrally casted installation bracket for attachment to a square guide tube. Maximum allowable temperature of the medium for continuous operation is 40 °C.

### Motor

Premium Efficiency, IE3 equivalent, sensorless permanent-magnet motor with high overload capacity; 50 Hz; 24-pole; 400 V\* using variable frequency drive (VFD) control. Protection type IP 68, with stator insulation Class F.

\* 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, covered 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.

### Cable

10 m sewage resistant material. Optional lengths (m): 15, 20, 30, 40, 50.

### Options

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

### Weight

135 kg. With flow ring 150 kg.



### System Data

Motor	PM 55/24	PM 75/24	PM 100/24
Rated power (kW)	5.5	7.5	10.0
Motor efficiency (%)	94.0	93.3	91.7
Variable Frequency Drive (VFD)	A	B	C
Rated power (kW)	5.5	7.5	11.0
Rated current (A) at 400 V	12.9	15.8	24.2
<b>Total system efficiency (%)</b>	<b>91.5</b>	<b>90.9</b>	<b>89.3</b>

### Mixer performance

Hydraulic No.	Mixer power $P_p$ in kW	Motor kW
6531A / 6551A*	2.0	5.5
6532A / 6552A*	2.5	5.5
6533A / 6553A*	3.0	5.5
6534A / 6554A*	3.5	5.5
6535A / 6555A*	4.0	5.5
6536A / 6556A*	4.5	5.5
6530B / 6550B*	5.0	7.5
6531B / 6551B*	5.5	7.5
6532B / 6552B*	6.0	7.5
6533B / 6553B*	6.5	7.5
6530C / 6550C*	7.0	10.0
6531C / 6551C*	7.5	10.0
6532C / 6552C*	8.0	10.0

\*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)

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