

## Submersible Mixer Type ABS XRW 300

Compact submersible 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. The mixer is available in cast iron (EC) and stainless steel (CR) versions.

Maximum allowable temperature of the medium for continuous operation is 40 °C (104 °F).

### Motor

Premium Efficiency IE3, three-phase, squirrel-cage motor; 480 V \*; 60 Hz; 6-pole. Protection type IP 68, with stator insulation Class H. Direct on line (DOL). Max. submergence 20 m (66 ft).

\* other voltages available

### Propeller

Technically optimized, axially operating 2- or 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.

### Temperature monitoring

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

### Cable

10 m (33 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, additional seal (C-Cr) at motor side, flow ring, seals in viton, EMC cable, PTC thermistor in stator, vertical angle adjustment, vortex shield, lifting hoop, vibration damper

### Weight

XRW-PA 18/6 = 62 kg (137 lbs);

XRW-PA 35/6 = 82 kg (181 lbs).

With flow ring add 11 kg (25 lbs).



### Motor Data

| Motor                      | PA 18/6   | PA 35/6   |
|----------------------------|-----------|-----------|
| Rated power (kW/hp)        | 1.8 / 2.4 | 3.5 / 4.7 |
| Rated current at 480 V (A) | 3.4       | 6.9       |
| Speed (rpm)                | 1153      | 1169      |
| Motor efficiency (%)       | 82.9      | 84.8      |
| Power factor               | 0.77      | 0.71      |

### Mixer performance

| Hydraulic No. | Mixer power P <sub>p</sub> in kW/hp | Motor kW/hp |
|---------------|-------------------------------------|-------------|
| 3021          | 1.70 / 2.30                         | 1.8 / 2.4   |
| 3022          | 2.10 / 2.80                         | 3.5 / 4.7   |
| 3023          | 2.47 / 3.30                         | 3.5 / 4.7   |
| 3031          | 2.93 / 3.90                         | 3.5 / 4.7   |

## Materials

| Part            | EC (cast iron)                 | CR (stainless steel) |
|-----------------|--------------------------------|----------------------|
| Motor housing   | EN-GJL-250 painted             | 1.4404               |
| Sliding bracket | EN-GJL-250 painted / polyamide | 1.4408 / polyamide   |
| Motor shaft     | 1.4021                         | 1.4401               |
| Propeller       | 1.4460                         | 1.4460               |
| Fasteners       | 1.4401                         | 1.4401               |
| Lifting band    | 1.4404                         | 1.4404               |

## Materials Comparison

| Europe              | USA                  |
|---------------------|----------------------|
| EN 1561; EN-GJL-250 | ASTM A48; Class 35 B |
| 1.4021              | ASTM / AISI 420      |
| 1.4401              | AISI 316             |
| 1.4404              | AISI 316 L           |
| 1.4408              | ASTM A351 CF8M       |
| 1.4460              | AISI 329             |

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