Submersible mixer
type ABS XRW 900
Main industries and applications

The submersible mixer type ABS XRW 900 is a compact and versatile mixer with a wide range of applications, including use in aggressive and abrasive liquids.

Its design makes it particularly suitable for mixing and stirring applications in sewage treatment plants and industrial areas such as:

- Equalization of sewage
- Biological processes (aerobic, anoxic and anaerobic)
- Selector (contact zone)
- Sludge buffer tank

Also applicable for homogenization of highly concentrated sludge and slurries such as:

- Primary, secondary and digested sludge in storage and buffer tanks
- Lime and mineral slurries

Hazardous locations:

- Certification for ATEX (Ex II 2G Ex h db IIB T4 Gb), FM and CSA available as an option

Features and benefits

When you choose our submersible mixer XRW, you choose the market’s best ongoing energy performance. You also get the best lifecycle cost, from initial purchase to continuous operation.

The following features and benefits apply to the 900 model of the submersible mixer type ABS XRW, which is used for mixing at medium-low speeds.

**Energy-saving, Premium Efficiency IE3 asynchronous motor**

- Ensures the lowest possible energy consumption
- Keeps operating temperature low for longer product life

**Robust planetary gearbox**

- Strongly designed for high reliability
- Provides fatigue strength for long operating life

**Strong bearing configuration in motor and gearbox**

- Offers true reliability with a calculated bearing lifetime of more than 100'000 operating hours
- Needs no maintenance – bearings lubricated for life

**Large rotor shaft**

- Keeps shaft deflection to a minimum through heavy-duty construction

**Sealed connection chamber**

- Simplifies mixer maintenance
- Safeguards the motor to ensure high reliability

When you choose our submersible mixer XRW, you choose the market’s best ongoing energy performance. You also get the best lifecycle cost, from initial purchase to ongoing operation.

- Economical and reliable design

Triple seal system with dual oil chamber
- Improves motor and gearbox protection

Enhanced mechanical seal protection system
- Keeps the mechanical seal clog-free
- Greatly extends the life of the seal

Hydraulic-optimized stainless steel propeller
- Ensures the highest possible mixing performance
- Reduces maintenance through self-cleaning

Multiple moisture sensor (DI) seal monitoring
- Secures full protection of motor and gearbox

Abrasion-resistant, galvanically insulated mast bracket and suspension
- Reduces the risk of electrochemical corrosion

TCS (Thermo Control System)
- Provides a warning or switches off the motor automatically before the permissible temperature limit is exceeded, whether due to high-temperature medium or another problem source
Materials

<table>
<thead>
<tr>
<th>Mixer part</th>
<th>EC (cast iron)</th>
<th>CR (stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor housing</td>
<td>EN-GJL-250 painted</td>
<td>1.4571 (AISI 316Ti)</td>
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<tr>
<td>Motor shaft / propeller shaft</td>
<td>1.4021/EN-GJS-700</td>
<td>1.4021/EN-GJS-700</td>
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<tr>
<td>Propeller</td>
<td>1.4571 (AISI 316Ti)</td>
<td>1.4571 (AISI 316Ti)</td>
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<tr>
<td>Fasteners</td>
<td>1.4401 (AISI 316)</td>
<td>1.4401 (AISI 316)</td>
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</tbody>
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Operating data

<table>
<thead>
<tr>
<th></th>
<th>50 Hz (IE3)</th>
<th>60 Hz (IE3)</th>
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</thead>
<tbody>
<tr>
<td>Propeller diameter</td>
<td>900 mm</td>
<td>900 mm</td>
</tr>
<tr>
<td></td>
<td>35 in.</td>
<td></td>
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<tr>
<td>Motor power</td>
<td>up to 22 kW</td>
<td>up to 25 kW</td>
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<tr>
<td></td>
<td>up to 33.5 hp</td>
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<tr>
<td>Motor efficiency</td>
<td>up to 92.3%</td>
<td>up to 93%</td>
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<tr>
<td>Mixing flow</td>
<td>up to 1.79 m³/s</td>
<td>up to 1.79 m³/s</td>
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<tr>
<td></td>
<td>up to 28’300 USgpm</td>
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Sulzer serves clients worldwide through a network of over 180 production and service sites and has a strong footprint in emerging markets.