Submersible Mixers Type ABS
XRW 400 and 650
Main Applications

The submersible mixer type ABS XRW 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)

Applicable for homogenization 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 k Ex d IIB T4), FM and CSA available as an option.

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.
Features and Benefits

The following features and benefits apply to the 400 and 650 models of the submersible mixer type ABS XRW, which are used for mixing at medium speeds.

1. **Premium-efficiency (IE3-equivalent) sensorless permanent-magnet motor controlled by variable-frequency drive (VFD)**
   - Ensures the lowest possible energy consumption
   - Allows process optimization through fully variable speed
   - Keeps operating temperature low for longer product life
   - Provides high overload capacity

2. **Large, long-lasting bearings**
   - Offer true reliability with a calculated lifetime of more than 100,000 operating hours
   - Need no maintenance – lubricated for life

3. **Pre-loaded upper bearing**
   - Prevents spinning through the design of the outer ring
   - Eliminates backlash
   - Ensures longer bearing life

4. **Large rotor shaft**
   - Keeps shaft deflection to a minimum through heavy-duty construction

5. **Sealed connection chamber with quick-connection block**
   - Simplifies mixer maintenance
   - Safeguards the motor to ensure high reliability

6. **Triple seal system with dual oil chamber**
   - Enhances motor protection for full peace of mind

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

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

9. **Abrasion-resistant galvanically insulated guide tube and suspension**
   - Reduces the risk of electrochemical corrosion

10. **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
Submersible Mixers Type ABS XRW 400 and 650

Materials

<table>
<thead>
<tr>
<th>Mixer part</th>
<th>CR (stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor housing</td>
<td>1.4404 (AISI 316L)</td>
</tr>
<tr>
<td>Motor shaft</td>
<td>1.4401 (AISI 316)</td>
</tr>
<tr>
<td>Propeller</td>
<td>1.4571 (AISI 316)</td>
</tr>
<tr>
<td>Fasteners</td>
<td>1.4401 (AISI 316)</td>
</tr>
</tbody>
</table>

Operating data

<table>
<thead>
<tr>
<th>50 Hz</th>
<th>60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 / 650 mm</td>
<td>400 / 650 mm</td>
</tr>
<tr>
<td>Propeller diameter</td>
<td>16 / 26 in</td>
</tr>
<tr>
<td>3 – 10 kW</td>
<td>3 – 10 kW</td>
</tr>
<tr>
<td>Motor power</td>
<td>4 – 13.4 hp</td>
</tr>
<tr>
<td>up to 91%</td>
<td>up to 91%</td>
</tr>
<tr>
<td>Motor efficiency</td>
<td>up to 91%</td>
</tr>
<tr>
<td>up to 0.83 m³/s</td>
<td>up to 13,200 USgpm</td>
</tr>
<tr>
<td>Mixing flow</td>
<td>up to 0.83 m³/s</td>
</tr>
</tbody>
</table>
We Do What We Say

Customer partnership
• We are reliable partners
• We provide a high level of service
• We make our customers more competitive

Committed people
• We drive accountability
• We are open and transparent
• We are team players

Operational excellence
• We focus on results
• We take initiative and work within established processes
• We act safely

A Global Specialist at Your Doorstep

Sulzer serves clients worldwide through a network of over 150 production and service sites and has a strong footprint in emerging markets.