

Submersible Mixer Type ABS RW 7511

The submersible mixer RW 7511 is specifically designed for the major mixing functions during the homogenization of sludge and slurry.

Construction

The submersible mixer is designed as a compact, water-pressure tight unit including propeller and integrally casted installation bracket for attachment onto the square guide tube.

The mixers are available in two standard material versions: EC = cast iron version, CR = stainless steel version
Maximum allowable temperature of the medium for continuous operation is 40 °C.

Motor

Squirrel cage, 3-phase, 4-pole, 50 Hz,
insulation class F (155 °C), max. submergence 20 m.

Propeller

The mixer is equipped with a special 2-blade propeller. With this propeller a very strong rotating turbulent flow is produced in radial and axial direction. Therefore this propeller combines all properties for the homogenization of sewage sludge which belongs to the intrinsic viscous substances.

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 000h.

Gearbox

High-efficiency planetary gearbox, fatigue strength with a calculated lifetime of more than 100 000 h.

Shaft sealing

Mechanical seal: Silicon carbide / Silicon carbide.
O-Rings / lip seals: NBR.

Seal monitoring

DI-system with a leakage sensor in the junction box.

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

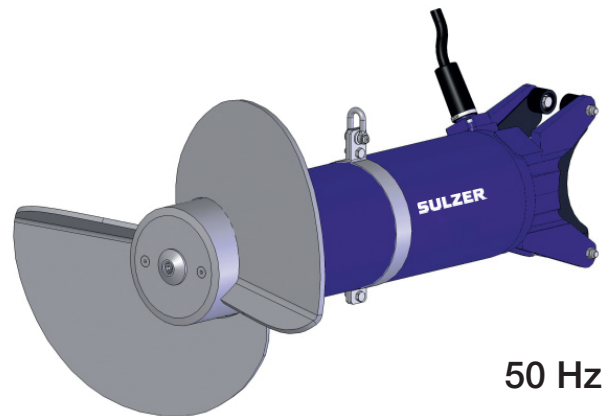
Explosion-proof version, seals in viton, PTC or PT 100 in the stator.

Accessories

Lifting hoop.

Weight

202 kg.



Features

- Highly efficient submersible mixer for the homogenisation of high concentrated sewage sludge.
- Reduced energy cost due to a unique drive unit design including a high efficiency gear box.
- No risk to motor overloading because of high or varying dry matter content.
- Reduced mixing times
- Blockage-free 2-blade propeller reduces LCC.

Mixer performance table

Hydraulic No.	Mixer power P_p in kW	Motor kW
7511	9.5	15.0

Motor Data

Motor	A 150/4
Rated power (kW)	15.0
Rated current at 400 V (A)	31.3
Speed (r/min)	285 ¹
Motor efficiency (%)	84
Power factor	0.82

Materials

Part	EC (cast iron)	CR (stainless steel)
Motor housing	EN-GJL-250 painted	1.4404 (AISI 316L)
Sliding bracket	EN-GJS-400-18 painted / polyamide	1.4408 / polyamide (CF-8M)
Motor shaft / Propeller shaft	1.4021 / EN-GJS-700-3	1.4021 / EN-GJS-700-3
Propeller	1.4571 (AISI 316Ti)	1.4571 (AISI 316Ti)
Fasteners	1.4401 (AISI 316)	1.4401 (AISI 316)

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