



ABS Submersible Mixer 'RW'



ABS 'RW' mixers are compact submersible mixers specifically designed to provide an effective and highly energy efficient mixing solution. ABS 'RW' enable users to avoid settlement of solids anywhere inside the body of mixing tank leaving no dead zones.

Biogas power, which is a new area of renewable energy, requires anaerobic treatment of cattle manure or bio-degradable vegetables waste. ABS 'RW' mixers provide gentle mixing and prevent bacteria from dying prematurely.

Applications:

'RW' mixers are widely used in municipal applications, as well as industries like textiles, pharmaceuticals, chemicals, tanneries, sugar, food processing etc., 'RW' mixers find application in **sewage treatment plants, water treatment plants** etc. where these mixers are used for **mixing, agitating, blending or dissolving** of suspended solids.

Submersible mixers generally also find use in de-nitrification, nitrification, flocculation, primary, secondary and digested sludge applications.

Range:

Propeller diameter	:	200 to 900 mm
Motor power	:	1.3 to 22 kW
Mixing flow	:	upto 6300 m ³ /h
Liquid temperature	:	upto 40 °C
Immersion depth	:	upto 20 mm

Material version

EC cast iron version

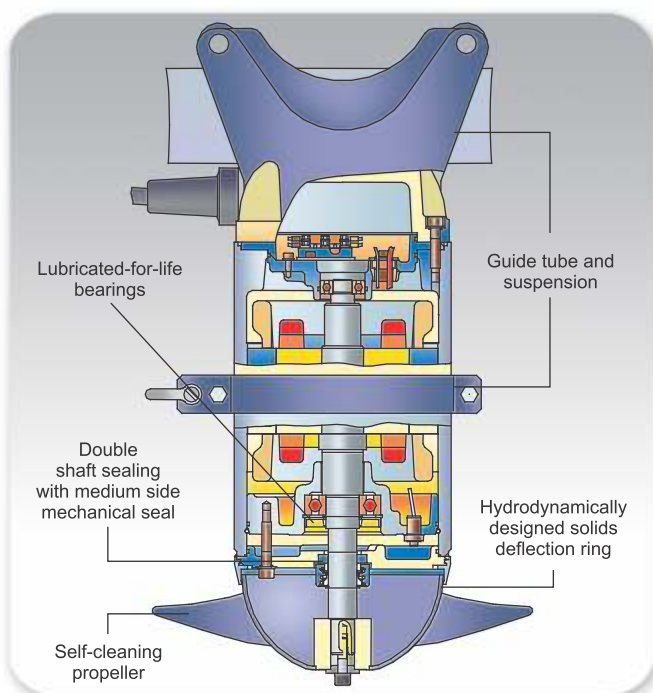
Motor housing	:	EN-GJL-250 (C.I.)
Sliding bracket	:	EN-GJL-250 (C.I.)
Propeller (RW 300)	:	SS 329
Propeller (RW 400/650/900)	:	SS 316 Ti
Propeller shaft / fasteners	:	SS 420

CR stainless steel version (corrosion resistant)

Motor housing	:	SS 316 Ti
Sliding bracket	:	SS 316
Propeller (RW 300)	:	SS 329
Propeller (RW 400/650/900)	:	SS 316 Ti
Propeller shaft / fasteners	:	SS 316

Features:

- Highly energy efficient as compared to conventional mixing by agitators with minimum maintenance and long operating life.
- Energy saving self-cleaning propeller design with hydrodynamic shape for optimum flow formation and mixing coverage.
- Available in standard as well as explosion proof versions.
- Temperature monitoring by bimetallic switch and optionally by PT-100 / PTC sensor.
- Seal monitoring by moisture sensor.



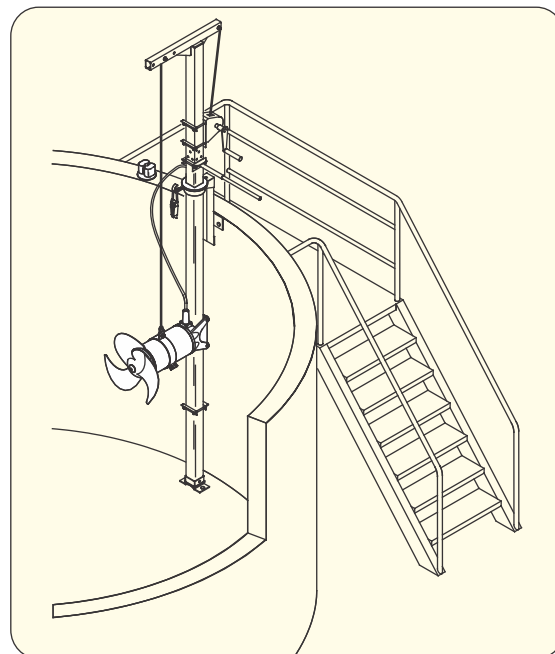
Construction:

'RW' submersible mixers come with IP-68, class F insulated squirrel cage motors. They are designed as compact water pressure tight units the including propeller and integrally cast installation bracket. Versions with different brackets are available, including one for vertical angle adjustment.

Flow ring design, vortex breakers & shock absorbers are available as options. All bearings are lubricated for life & give maintenance free operation with the expected life time of more than 100,000 hours. Mechanical seal (SiC/SiC) on medium side and lip seal on motor side is standard.

Installation:

ABS mixers are easily installed due to their integral cast installation bracket suitable for attachment on a square guide pipe. With the use of this system, it is possible to raise or lower the mixer for maintenance even when the tank is full. The guiding system can be rotated so as to position the mixer for directing the flow in particular direction, which is essential for proper mixing and ensuring no dead zones.



Installation example

Blending and suspension: Classic methods



A.T.E. advantages

A.T.E.'s Flow Technology division, with its India-wide network of regional sales and service offices, is always close to its customers and provides them prompt pre and post sales services. Our qualified and trained sales and service teams support our customers on product recommendation, application engineering, design layouts as well as installation.



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