

Generate a huge water flow using minimal energy.

Features

Strong water flow

Using CFD / CAE analysis, adopt the high-performance propeller that enables both mixing performance and strength. In addition, a structure with a sweepback angle will prevent foreign matters from tangling and provide superb durability.

Safety design

Leakage water chamber is standard on all models to prevent water penetration to the motor. In addition, a leakage detector (optional) prevents insulation deterioration due to leakage water. In addition, adopt the cable with fiber reinforcement, core wire seal shut the water penetrating into the motor.

High maintainability

Under a hanging up condition, oil change for mechanical seal and reduction gear parts, and inspection of the immersion to the leakage water chamber are possible.

Superb reliability

Employs double mechanical seal with silicon carbide (SiC) seal faces that is proven for submersible pumps. Secured the reliability that can withstand the long-time continuous operation required for the submersible mixer. In addition, the propeller shaft is made of corrosion resistant 316 stainless steel. It exhibits reliability in a wide range of environments.

Long service life

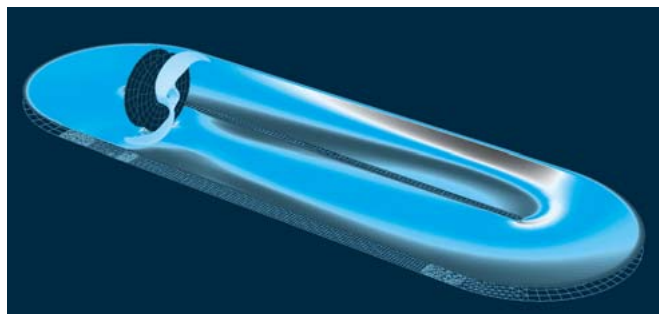
Adopt the multi-pole motor with slow rotating speed reduces the load on the reduction gear, which realizes long service life.

Wider scope of application

The high-temperature resistant motor, which reduces temperature rise, is employed to endure liquid temperature up to 40°C. Liquid contact part is fully made of stainless steel for applications in wider environment such as seawater.

Applications

- Generating circulating water flow for Oxidation Ditch (OD) tank
- Generation or circulation of water flow for dam and lake / bog



Computational fluid dynamics of oxidation-ditch tank



Specifications of Handling Liquid

Kind of liquid	Various types of wastewater
Specific gravity	1.03 or less
Viscosity	1,000mPa · s or less
Temperature	0°C - 40°C
Chlorine ion	1,000mg / ℓ or less
Sludge concentration	5% or less
Water depth	10m or less
pH	6 - 9

- Applicable ranges of specific gravity and viscosity differ depending on the model.
- Depending on the liquid type, it is possible to cope with those beyond the above range, please contact us.

Cable Specifications

Model	Type	Section Area (mm ²)	No. of cores	Application	Length (m)	Outer dia. (mm)
SML15	EPR insulated PCP sheathed cable with fiber reinforcement	2.0	4	Power	10	18
SML22		2.0	2	Control		
		2.0	2	Spare		
SML37		3.5	4	Power		20
		2.0	2	Control		
		2.0	2	Spare		