

Excellent in stirring, mixing, solution, diffusion, suspension, anti-freezing, keeping even condensing and even temperature and generating powerful current.

Proper selection of propellers is available depending on conditions of service.

Able to cope with handling liquids of high specific gravity and high viscosity.

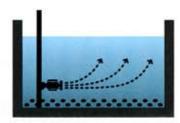
The unit is mounted on a guide bar, flexible to be raised and lowered, operated at different depths, angled upwards or downwards, and swivelled to the sides.

Simple in installation and maintenance.

SAKURAGAWA submersible agitators have great potential for use in various kinds of industry.

Factory drainage water treatment systems; Water supply and sewage water treatment plants; Farming and agriculture; Marine products industry; Rivers, civil engineering and public works.

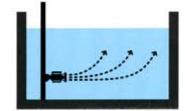




Prevention of sedimentation

Preventing suspended solids from settling to the bottom of liquid by agitating or stirring the liquid. Start stirring from the top of the pit and gradually sliding down along the guide bar, it is possible to use the full range inside the pit.

- Preventing sludge settlement at the bottom of the pits or septic tanks in sewage treatment system in factories or municipal facilities.
- Keeping food stuff in suspension at fish farming ponds for longer time or removing surplus food stuff or fish droppings.



Stirring slurry

In addition to stirring effect of flow current, SAKURAGAWA submersible agitators generate flow current in the whole of the tank to stir slurry with minimum power consumption.

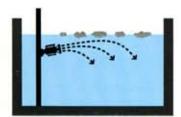
- Promotes efficiency of dehydration by means of even mixing of sludge in sewage treatment plants and sewage drainage systems at municipal facilities and factories.
- Stirring slurry in the process of paper mills.



Breaking up and stirring sludge crusts in suspension at the surface of liquid

SAKURAGAWA submersible agitator can be angled upwards to break up sludge crusts in suspension at the surfaces of liquid into particles by means of powerful current flow of liquid or downwards, pushing and breaking up sludge crusts towards the bottom of the tank.

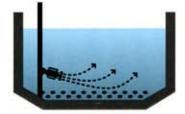
 In sewage pumps station, distributing tanks, sludge saving tanks, and stirring and breaking up sludge at drainage saving tanks in factories, saving time and cost.



For solution or diffusion of soluble substances in suspension

If soluble substances or powder lumps are suspended at the surfaces of liquid, direct the agitator toward them to efficiently make solution or to diffuse.

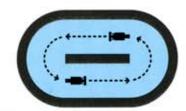
 Solution or diffusion in sewage treatment tanks.



Stirring sedimentation substances in condensed liquid tanks

Stirring and suspending sediment at the bottom of tanks, thus evening the density of fast sedimenting slurry or sludges.

 At sewage treatment plants and stirring at condensed tanks in drainage water treatment system in various kinds of industry.



Generating of current

Generating current in aquaculture farms artificially.

 To keep freshness of water, giving proper exercise to fish and to control water temperature (protects water from freezing in cold weather).

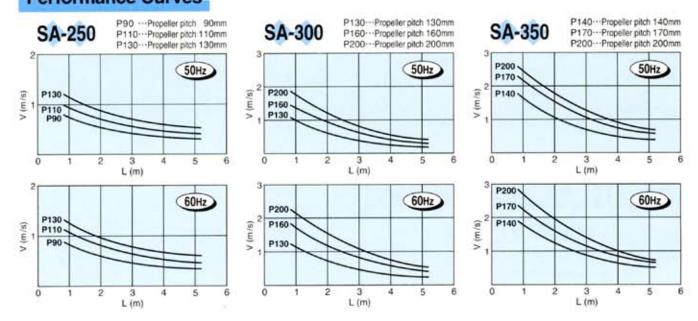
Specifications

	Mod	del		SA-250	SA-300	SA-350		
	Туре			Submersible dry induction				
	Output			1.2kW	3.3kW	5.5kW		
	Pole · Insulation			6 pole ⋅ class B				
Motor	Synch. speed (50Hz/60Hz)			1,000/1,200 rpm				
Mo	Thermal protector		ector	Auto-cut				
	- Frame			Cast iron (FC200)				
	Material	Shaft		S.S. (SUS304)	S.S. (SUS	S.S. (SUS420J2)		
	M	Cable and length		Vinyl 10m	Chloroprene 10m			
n	Disposition			Various slurry, Sludge, General fluid				
Liquid	PH			5~13				
3	Temperature			0~40°C				
	Maximum submergence		bmergence	30m				
	Lubricant			Turbine oil ISO VG32				
	Shaft seal			Double mechanical seal				
5	Propeller Guide ring Seal housing Seal Motor side		r	High chrome alloy (24Cr)				
Agitator			ng	Mild steel hot dipped galvanised				
A,			using	Cast iron (FC200)				
	Me	Seal surface	Motor side	sic × sic	Ceramic × BC			
			Propeller side	sic × sic	Tungsten carbide X	Tungsten carbide		
	Net weight (w/o cable)			34kg	80kg	94kg		

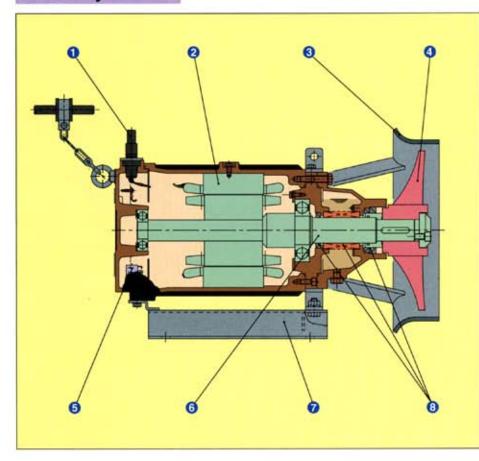


Model	Frequency Hz	Propeller pitch mm	Flow speed at guide ring m/s	Capacity m³/min	Power input at fresh water kW	Force N
	50	90	0.93	2.8	0.38	44
		110	1.11	3.4	0.42	62
04.050		130	1.32	4.0	0.44	88
SA-250	60	90	1.08	3.3	0.54	59
		110	1.34	4.1	0.59	91
		130	1.52	4.6	0.62	118
	50	130	1.41	6.2	1.0	145
		160	1.72	7.5	1.2	220
04.000		200	2.02	8.8	1.5	300
SA-300	60	130	1.64	7.2	1.5	200
		160	2.04	8.9	1.8	305
		200	2.36	10.3	2.3	410
	50	140	1.54	8.4	1.5	215
		170	1.92	10.5	1.9	335
SA-350		200	2.22	12.1	2.3	450
	60	140	1.82	9.9	2.1	300
		170	2.25	12.3	2.8	460
		200	2.61	14.3	3.3	620

Performance Curves



Cut-away section



O Power Cable

Safety-minded power cable, sealed at the joint where rubber-moulding is provided into the core of the cable to protect water-infiltration into the motor.

Motor

High efficiency six pole motor which is especially designed for submersible agitators.

OGuide Ring

Press-machined thick steel pipe, designed to be excellent in generating powerful current as well as causing strong sucking force.

O Propeller

The efficient propeller made of high chrome alloy with inlet side specifically curved to prevent clogging.

Motor Protector

Built-in automatic reset type "AUTO-CUT" is provided to protect the motor from burning out due to phase failure of power source, etc.

6 Motor Shaft

One piece stainless steel shaft minimises vibration while running for longer life of the unit.

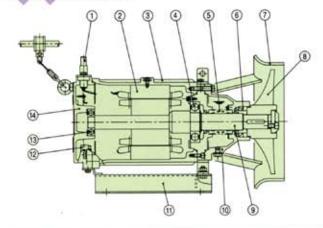
7 Base

Stable at the time of installation as well as placing the unit out of the pit. The unit can be fixed in a pit by means of bolts and nuts at the base.

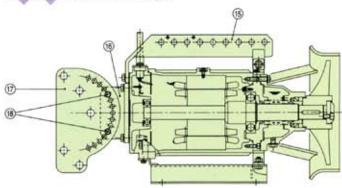
Shaftseal

Backed with our long years of experience in submersible pumps, an excellent Mechanical Seal supported by oil seals is provided to ensure reliable sealing effect.





SA-300 Quick installation type



Mark	Part name	Material	Mark	Part name	Material
1	Power cable	Chloroprene	10	Seal housing	Cast iron (FC200)
2	Motor		11	Base	Mild steel hot dipped galvanised
3	Motor frame	Cast iron (FC200)	12	Motor protector	
4	Bearing		13	Bearing	
5	Mechanical seal		14	Head cover	Cast iron (FC200)
6	Oil seal	Synthetic rubber	15	Lifting bar	Mild steel hot dipped galvanised
7	Guide ring	Mild steel hot dipped galvanised	16	Junction bracket	Mild steel hot dipped galvanised
8	Propeller	High chrome alloy (24Cr)	17	Guide slide	Mild steel hot dipped galvanised
9	Shaft	Stainless steel	18	Junction pin	Stainless steel



SAKURAGAWA PUMP MFG.CO.,LTD.