

RSA/SA SERIES

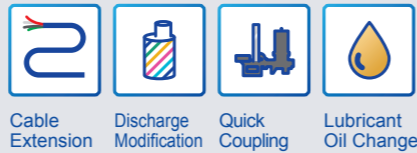
- Agitators in this series are designed for excellent wear resistance in tough conditions containing slurry and sludge.
- SA-0.75E/1.5F, adopting a geared motor, is best for agitating high-density and high viscosity liquids.
- The impeller is made of high chrome cast iron (about 25% chromium) with excellent wear resistance or hot dip galvanized steel SS400 with high corrosion resistance.
- Auto-Cut is adopted as a motor protector to prevent motor burnout.
- The agitation direction can be easily changed between upward and downward.
- It is easy to adjust the agitators' immersion depth and tilt angle in vertical and horizontal direction by using the separate detachable equipment.

Submersible Agitator



SA-350AV

Option



The available options vary depending on the model. For more information, refer to "Option" page 53.



SA-300A



RSA-075B

Main Specification

Models	Stationary type	Horizontal type			Vertical type			Without guide ring
	RSA-075B	SA-250A	SA-300A	SA-350A	SA-250AV	SA-300AV	SA-350AV	SA-1.5F
Motor Output (kW)	0.75	1.2	3.3	5.5	1.2	3.3	5.5	1.5
Medium	Type	Various slurries, Sludge and General fluids						
	Temperature	Max 40 Degrees Celsius						
Maximum Use Depth	30m							
Pump	Shaft seal	Duble type Mechanical Sea						
	Propeller	High Chrome						SS400 hot-dip galvanized coating
Motor	Type/pole	Dry type Induction Motor/6 pole						Dry type Induction Motor with Decelerator /4pole
	Insulation class	E		B		E		B
	Protector	Auto-Cut						
	Frame	FC200*						
	Shaft	Stainless Steel						

*FC: Cast Iron

Specification

Models	Motor Output		Rotational Speed	Capacity			Propeller Diameter		Propeller Pitch		Cable Length		Weight (Without Cable)	
	kW	HP	min ⁻¹	m ³ /min	m ³ /h	USGPM	mm	in	mm	in	m	ft	kg	lb
RSA-075B	0.75	1	1,000/1,200	-	-	-	240	9.6	130	5.2	10	32.8	35	77
SA-250	1.2	1.5	1,000/1,200	4/4.6	240/276	1,056/1,214	240	9.6	130	5.2	10	32.8	34	75
SA-300	3.3	5	1,000/1,200	8.8/10.3	528/618	2,324/2,720	280	11.2	200	8	10	32.8	80	176
SA-350	5.5	8	1,000/1,200	12.3/14.3	738/858	3,250/3,777	316	12.6	200	8	10	32.8	94	207
SA-250AV	1.2	1.5	1,000/1,200	4/4.6	240/276	1,056/1,214	240	9.6	130	5.2	10	32.8	34	75
SA-300AV	3.3	5	1,000/1,200	8.8/10.3	528/618	2,324/2,720	280	11.2	200	8	10	32.8	80	176
SA-350AV	5.5	8	1,000/1,200	12.3/14.3	738/858	3,250/3,777	316	12.6	200	8	10	32.8	94	207
SA-1.5F	1.5	2	100/200	34.9/32.4	1,242/1,206	9,214/8,554	870/790	32/31.6	1,010	40.4	10	32.8	80	176

The figure in the left of "m" is for 50Hz, in the right is for 60Hz

Standard accessories for quick coupling devices

(excluding the main unit).

- Lifting Chain(SUS304) Round Ring, Shackle, 6 meter 1pc
- Guide Slider 1set
- Base Plate 1set
- Guide Bracket 1set
- Handle 1pc

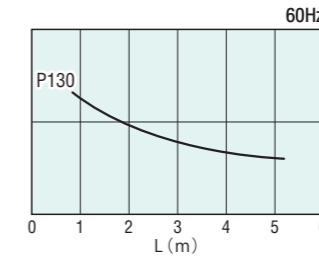
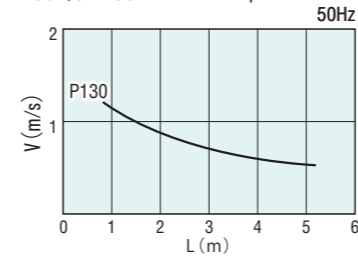
Special accessories

- Guide Bar 1pc
- Chain Block 1set
- Tip Box for power cable 1set
- Bolt 1set

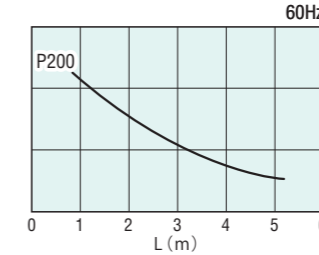
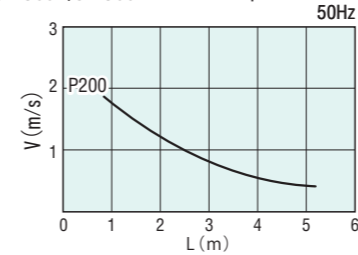
Make sure that the size and price of the guide bar is depending on the size of the tank. Tell us the information of the tank.

Max Velocity - Distance line Chart

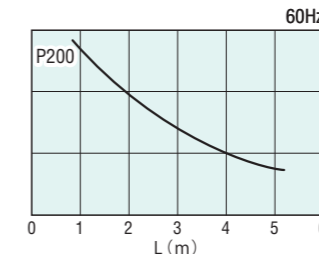
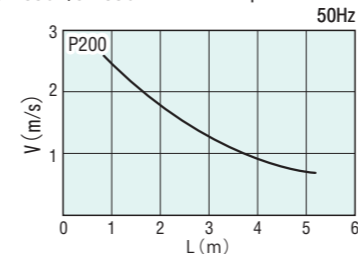
SA-250A/SA-250AV *P130---Propeller Pitch 130mm



SA-300A/SA-300AV *P200---Propeller Pitch 200mm

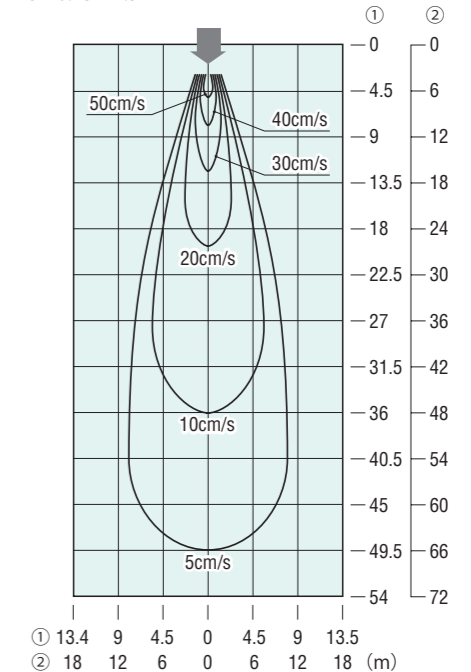


SA-350A/SA-350AV *P200---Propeller Pitch 200mm

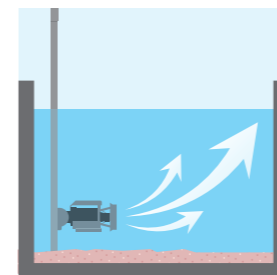


Water Flow Velocity Profile

SA-0.75E-1.5F



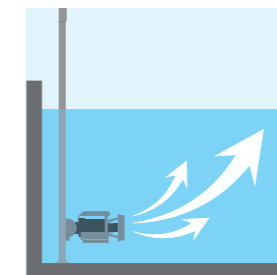
Applications



Prevention of sedimentation

The agitators prevent suspended solids from stirring liquids. Start stirring from the top of a tank and gradually sliding down along a guide bar, it can make full use of tank volume.

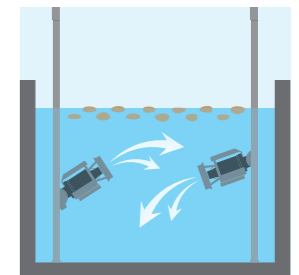
- Prevention of sludge settlement at the bottom of pits or adjustment tanks in sewage treatment systems and industrial wastewater treatment facilities
- Extension of feeding time and removal of leftover feed and excreta in fish ponds



Stirring slurry

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

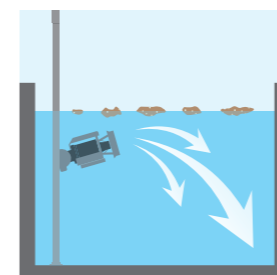
- Improvement in efficiency of dehydration by means of even mixing of sludge in sewage and industrial wastewater treatment facilities
- Stirring of slurry in production process of paper mills



Crushing and stirring floating scum at surface of liquid

The agitators crush floating scums at surfaces of liquids by upward agitation. They suction scums downward to generate a water flow and stir while crushing the scums within tanks.

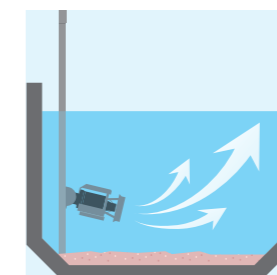
- Crushing and stirring scum and shortening processing time in sewage pump stations, distribution tanks, sludge and wastewater storage tanks



Dissolution and diffusion of floating soluble substances

If soluble substances or lumps of powder float on the surface of liquids, the agitators direct the water flow toward them efficiently to dissolve and diffuse.

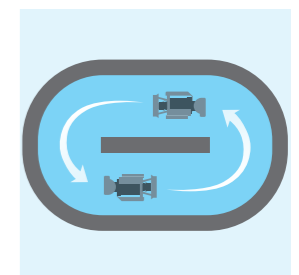
- Dissolution and diffusion in sewage treatment tanks



Stirring sedimentation substances in sludge thickeners

By stirring to keep sediments suspended, homogenization of fast settling slurry and sludge concentration can be achieved.

- Stirring of slurry in sludge thickeners of sewage and industrial wastewater treatment facilities



Generation of water flow

The agitators generate a water flow artificially in fish farms to create a near-natural environment.

- Preservation of water freshness to provide exercise to fishes, adjustment of water temperature and prevention of gate freezing