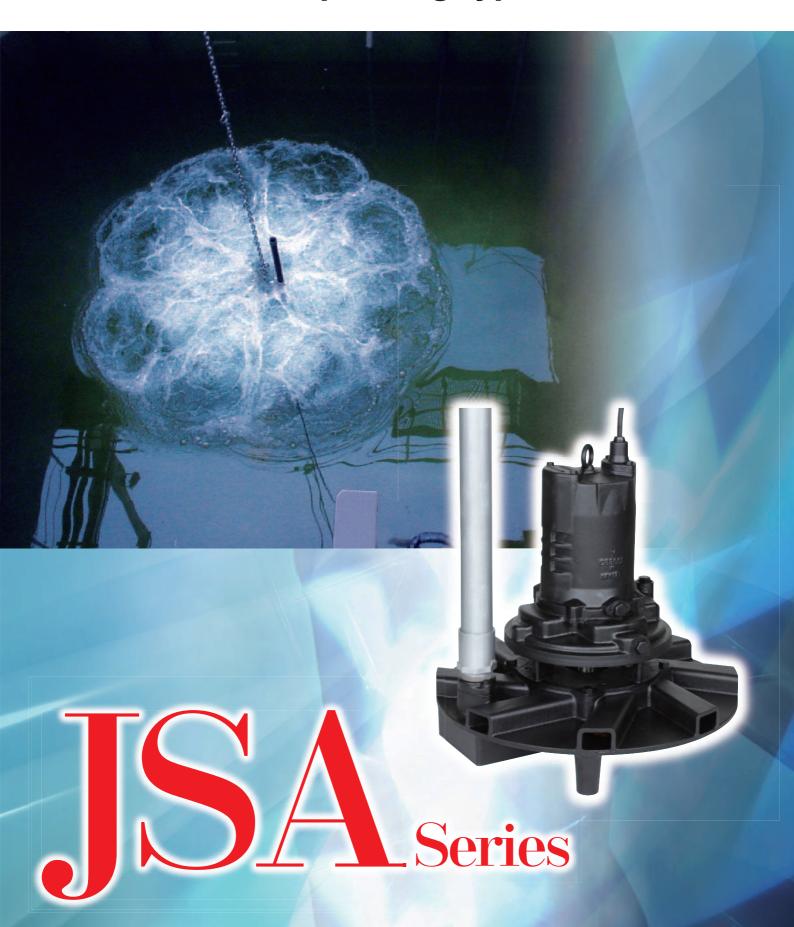
## **ShinMaywa**

# **Submersible Aerator**

Self-aspirating type JSA series



## Self-Aspirating Type Submersible Aerate

The specially designed star-shaped closed impeller generates negative pressure in we the water surface through an air-pipe. Water is sucked from the large inflow port on to with air. This structure prevents troubles that the inflow port is clogged up with sediments to be a surface of the structure prevents troubles that the inflow port is clogged up with sediments.



#### **Applications**

- Sewage and Industrial waste treatment facilities
  - · Aeration and mixing processes
- SBR processes

#### Standard specifications

Intake pipe dia. (mm)	Model	Rated output (kW)	No. of poles	Revolving speed (min <sup>-1</sup> )	Passable particle dia. (mm)	No. of outlets	Max. water depth- Air flow rate (m - m <sup>3</sup> /h)	Weight (kg)
32	JSA15	1.5	2	3,000	12	5	3.5 - 21	45
50	JSA22	2.2	4	1,500	15	8	3.6 - 30	110
50	JSA37	3.7	4	1,500	15	8	4.0 - 56	115
50	JSA55	5.5	4	1,500	15	8	4.0 - 78	135

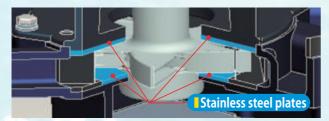
## or, JSA-series

ater and aspirates air from above op of the impeller housing and mixed ents on bottom of a tank.

### Outstanding features

## Long service life

The top and bottom faces inside the housing are lined with stainless steel plates. It improves abrasion resistance and controls a reduction in air flow performance due to aging degradation. (Not applicable for Model JSA15)



## Time-proven reliability

The drive motor is of air-filled submersible type, which has been highly rated for submersible pumps for many years. There is no water leak risk.

## Lightweight and compact

The compact unit is light in weight too. You can easily sink and lift the unit into and out of the tank.

## Ready to set up

To get the unit up and running, just connect the air intake pipe to the body and place the unit in the tank.

### Easy-to-maintain design

Oil can be changed and the motor may be inspected while the unit is in its upright position. In short, the product is configured for easy maintenance.

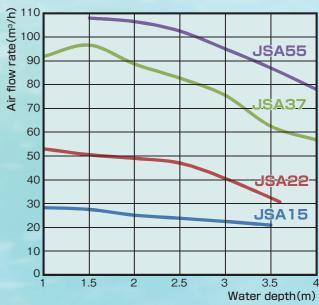
#### Component specifications

Model	Cable specifications					Mechanical seal	
Model	Туре	Sectional area	No. of cores	Outside dia.	length	Тор	Bottom
JSA15	PVC insulated PVC sheathed	1.25mm <sup>2</sup>	4	11.5mm			
JSA22		1.25mm <sup>2</sup>	4	11.5mm	8m	SiC/SiC	SiC/SiC
JSA37		2.0mm <sup>2</sup>	4	12mm	OIII	310/310	310/310
JSA55	cable	3.5mm <sup>2</sup>	4	14mm			

#### Main specifications

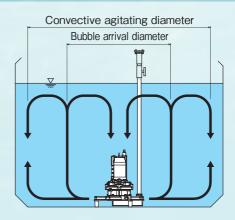
	JSA15	JSA22	JSA37	JSA55		
Handling	Kind of Liquid	Wastewater and sewage				
Liquid	Temperature	0 - 32℃				
	Cable	PVC insulated PVC sheathed cable			ed cable	
Material	Motor Shaft	420J2 Stainless steel			el	
Material	Impeller	304	4 Stainless steel casting			
	Discharge housing	Gray iron casting(FC200)			200)	
	Туре	Dry type submersible induction motor				
	Insulation / Enclosure	Class E / IP68				
Electric	Phase	3-phase				
Motor	No. of poles	2 4				
	Atarting Method	Direct on line				
	Protector	Thermal protector (Auto-reset typ			set type)	

#### Performance (air flow rate)



Note: The air flow rates are expressed at the standard condition, i.e. temperature of 20°C, 1atm and may vary by up to approximately 5%.

#### Flow pattern



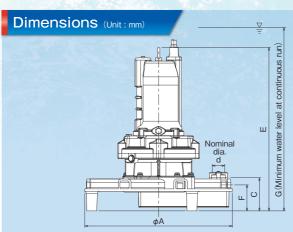
Model	Limit water depth (m)	depth arrival dia.		Square (m)
JSA15	3.5	(1.9)	(5)	(4.5)
JSA22	3.6	(2.4)	(6)	(5.5)
JSA37	4.0	(3)	(7)	(6.5)
JSA55	4.0	(3.9)	(12)	(11)

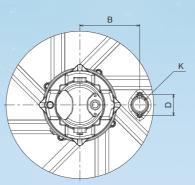
- Bubble arrival dia. : Area in which direct oxidation occurs by bubbles.
- Convective agitating dia. : Area in which indirect oxidation occurs by convective agitation.
- \*JSA-series are not designed for anaerobic mixing.





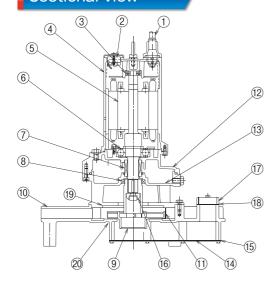






Туре	JSA15	JSA22	JSA37	JSA55		
d	32A	50A				
K	Rc11/4	Rc2				
Α	366	596				
В	140	242				
С	106	134				
D	70	85				
Е	475	582 661 648				
F	86	105				
G	600	1,000 1,500				

#### Sectional view

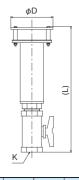


No.	Name	Material
1	Cable	PVC insulated PVC sheathed Cable
2	Thermal protector	_
3	Ball bearing (upper)	_
4	Stator housing	Gray iron casting (FC200)
5	Rotor	Shaft:420J2 Stainless steel
6	Ball bearing (lower)	_
7	Mechanical seal	Silicon carbide (SiC) (4-face)
8	Oil seal	Acrylonitrile butadiene rubber (NBR)
9	Impeller	304 stainless steel casting
10	Discharge housing	Gray iron casting (FC200)
11	Channel ring	Acrylonitrile butadiene rubber (NBR)
12	Oil housing	Gray iron casting (FC200)
13	Mechanical seal bracket	Gray iron casting (FC200)
14	Bottom cover	304 stainless steel
15	Gasket (Bottom cover)	Acrylonitrile butadiene rubber (NBR)
16	Impeller nut	304 stainless steel
17	Companion flange	Gray iron casting (FC200)
18	Gasket	Acrylonitrile butadiene rubber (NBR)
19	Liner plate (upper)	304 stainless steel
20	Liner plate (lower)	304 stainless steel

No. 12, 19 and 20 are not applicable for Model JSA15.

#### Options

- ●Lifting chain
- Suction silencer with ball valve (Material: Hard vinyl chloride)



	JSA15	JSA22	JSA37	JSA55
D(mm)	114		160	
L(mm)	308		470	
K	G1 1/4		G2	

Specifications and dimensions are subject to change without notice.

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#### ShinMaywa ONO PLANT

ISO 900](No.956445)/ISO 1400](No.771888)