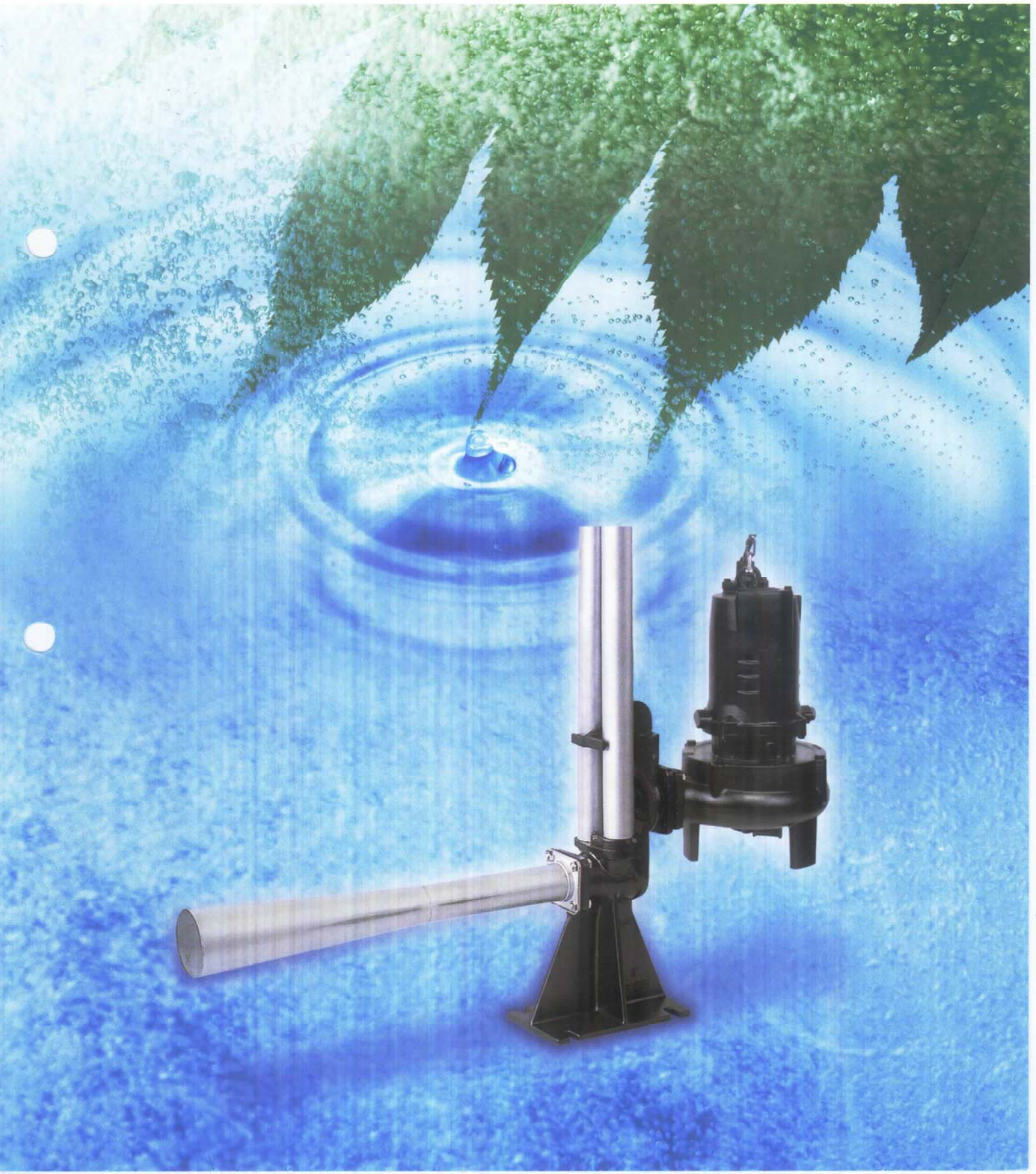
ShinMaywa

Submersible Ejector

J · JF · JA · JAF



High Performance with Low Power Consumption

ShinMaywa helps to cut initial and running costs.

J **JF** **JA** **JAF**

0.75～5.5kW

For preliminary aeration of purifying tanks

For preliminary aeration of industrial wastewater treatment plants etc.



JA372

Submersible Ejector forces sucked air into the tank through an ejector action with a jet of water, thereby stirring the liquid in the tank simultaneously. Since Submersible Ejector offers high performance and low power consumption, it allows you to cut initial and running costs. It can be used effectively for the preliminary aeration of purifying tanks etc. Submersible Ejector is available in two types: the automatic connection type and free-standing type. You can choose either according to your application.

■ Major Features

- **Stirring with a jet of water and tiny air bubbles ensures uniform MLSS concentration in the tank.**
- **Low noise output.**
- **Since Submersible Ejector can be used in water from 1 to 6 m in depth, limited treatment areas can be effectively covered.**
- **Submersible Ejector has a long life thanks to a vortex type impeller, which allows foreign matter to pass through easily.**
- **Submersible Ejector, especially the automatic connection type, is easy to maintain.**

■ Standard Specifications

Model		Model of	Output	Phase	Rating(50/60Hz)		Number of	Lifting Weight (kg)		Gross Weight (kg)
Automatic Connection	Free-Standing	Pump Used	(kW)		Air Flow Rate (m^3/h)	Water Depth (m)	Poles (P)	J·JA	JF·JAF	J·JA
J750V	JF750V	CVS50	0.75	3-phase	10	2.0	2	24	26	31
JA152	JAF152	CVC651	1.5		22	3.5	4	52	54	71
JA222	JAF222	CVC801	2.2		35	3.5	4	65	68	98
JA372	JAF372	CVC801	3.7		67	4.0	4	77	80	110
JA552	JAF552	–	5.5		101	4.0	4	103	106	136

(Note) The lifting weight of the JF and JAF models does not include the weight of the air suction pipe. The water depth refers to the distance from the center of the diffuser to the surface of the water.

■ Stirring Capacity

Model	Tank Dimensions			Max. Stirring Capacity (m^3)
	Max. Width (m)	Max. Length (m)	Max. Water Depth (m)	
J750V·JF750V	2	3	3.2	19.2
JA152·JAF152	3.5	4	3.9	54.6
JA222·JAF222	4.5	5	4.5	101.3
JA372·JAF372	6	6	5.3	190.8
JA552·JAF552	7	7	6.3	308.7

(Note) The indicated tank dimensions for preliminary aeration are maximum values, assuming a water flow speed of 0.3 m/s or more.
The maximum stirring capacity for preliminary aeration is obtained from the max.width × max.length × max.water depth.

■ Motor Protective Device

Model	Automatic Cut-Off	MTP (Micro Thermal Protector)	Water Immersion Sensor
J750V·JF750V	○	×	×
JA152·JAF152	○	△	▲
JA222·JAF222	○	△	▲
JA372·JAF372	○	△	▲
JA552·JAF552	○	△	▲

○··· It is included as standard equipment.
△··· It is attachable to order (option).
▲··· The electrode type sensor is attachable to order (option).
×··· It is not attachable for structural reasons.

⚠ Caution

(1) If you need information regarding the choice of models and the calculation of the number of pumps, please contact ShinMaywa.
(2) Basically, the operating hours of Submersible Ejector should be 12 hours or less per day or 4,000 hours or less per year. If this limit is anticipated to be exceeded, please consult ShinMaywa.
(3) In the case of a sludge (thickened) storage tank, the pump life may be shortened due to high sludge density or the nozzle may be clogged with foreign matter. If you wish to use Submersible Ejector for a sludge storage tank, consult ShinMaywa in advance.
(4) Because Submersible Ejector stirs the liquid in the tank with an upward flow of air bubbles, it cannot perform anaerobic stirring.

■ Standard Accessories

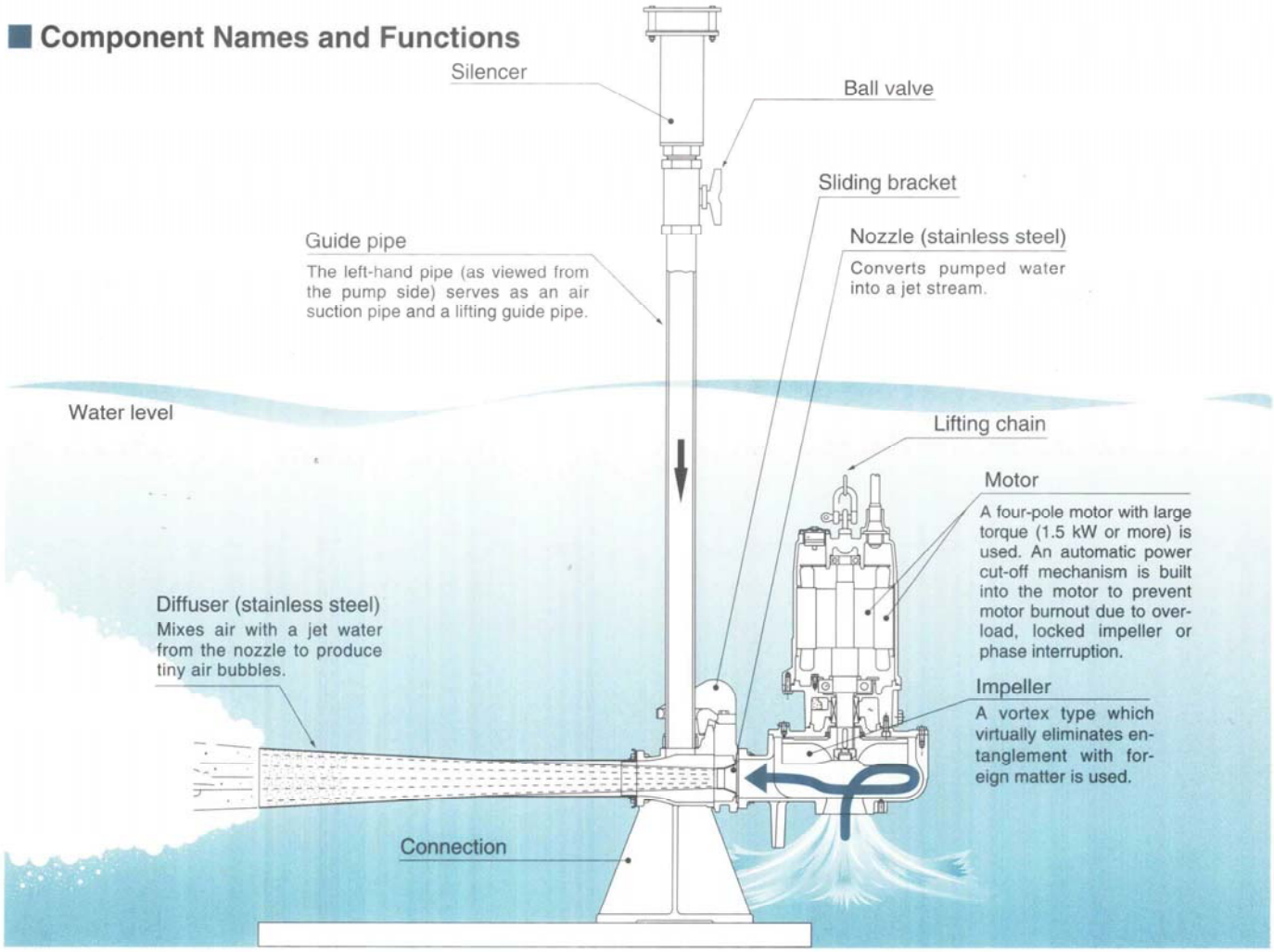
● Automatic Connection type (J/JA)

- Cable (8 m, 6 m for J750V only)..... 1
- Lifting chain (6 m, 4 m for J750V only)..... 1
- Connection..... 1
- Guide holder (with bolts and nuts)..... 1
- Silencer..... 1
- Ball valve (not applicable to J750V)..... 1

● Free-Standing type (JF/JAF)

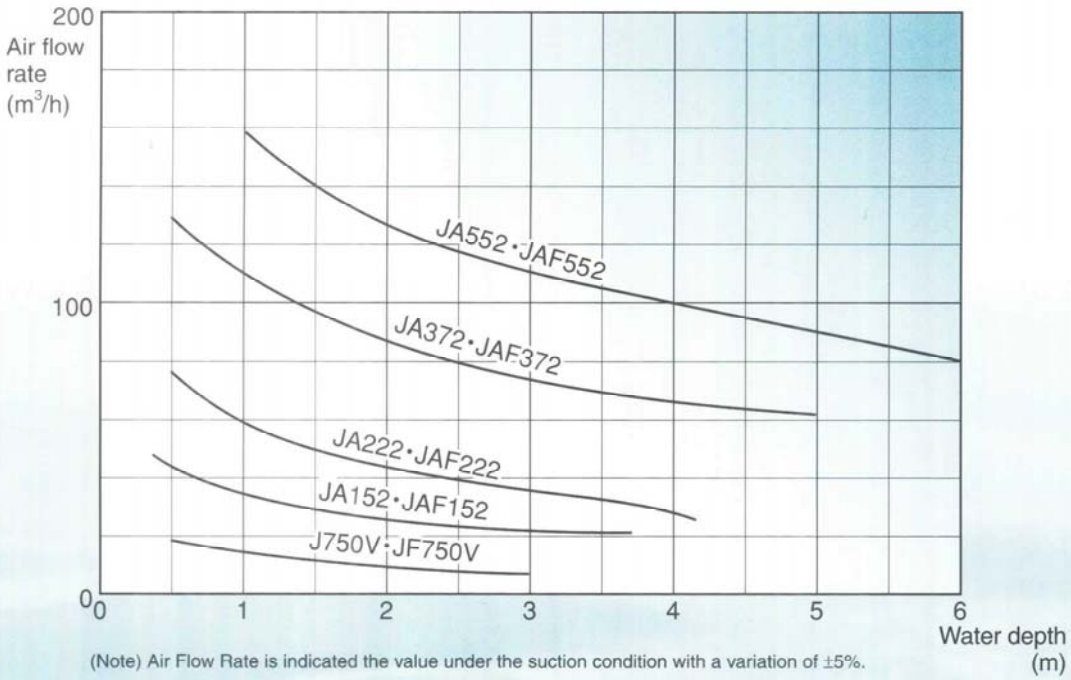
- Cable (8 m, 6 m for JF750V only)..... 1
- Lifting chain (6 m) (not applicable to JF750V)..... 1
- Silencer..... 1
- Ball valve (not applicable to JF750V)..... 1

Component Names and Functions



(Note) The diagram given here is for Model JA.

Air Suction Performance



(Note) Air Flow Rate is indicated the value under the suction condition with a variation of ±5%.

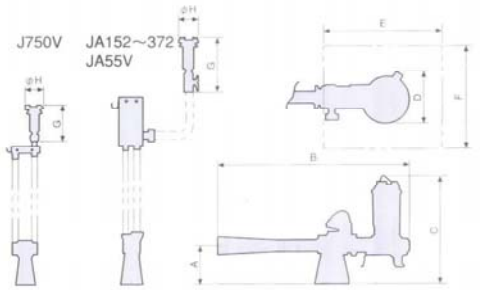
Table of Air Flow Rate(m³/h)

Model		Water depth										
Automatic Connection	Free-Standing	1m	1.5m	2m	2.5m	3m	3.5m	4m	4.5m	5m	5.5m	6m
J750V	JF750V	15	12	10	9	8	–	–	–	–	–	–
JA152	JAF152	36	31	27	25	23	22	–	–	–	–	–
JA222	JAF222	60	51	45	40	37	35	29	–	–	–	–
JA372	JAF372	110	98	88	81	75	70	67	64	62	–	–
JA552	JAF552	158	139	127	118	111	105	101	96	91	86	79

(Note) Air Flow Rate is indicated the value under the suction condition with a variation of ±5%.

Dimensions

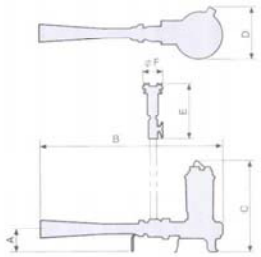
Automatic Connection type



mm

Model	A	B	C	D	E	F	G	H
J750V	179	701	426	188	550	350	191	89
JA152	225	1,082	652	247			308	114
JA222	300	1,341	750	297	600	500	470	160
JA372			812					
JA552		1,379	858(50Hz) 833(60Hz)	334	700	600		

Free-Standing type



mm

Model	A	B	C	D	E	F
JF750V	156	691	403	188	191	89
JAF152	99	1,029	526	247	308	114
JAF222	125	1,341	574	297	470	160
JAF372			636			
JAF552	144	1,379	702(50Hz) 677(60Hz)	334		

Packing Size

mm

Model	Pump Length × Width × Height	Diffuser Length × Width × Height
J750V JF750V	280 × 225 × 470	180 × 220 × 330
JA152 JAF152	350 × 287 × 610	790 × 290 × 390
JA222	455 × 395 × 670	990 × 430 × 550
JAF222		960 × 290 × 390

mm

Model	Pump Length × Width × Height	Diffuser Length × Width × Height
JA372	455 × 395 × 730	990 × 430 × 550
JAF372		960 × 290 × 390
JA552	485 × 425 × 805	990 × 430 × 550
JAF552		960 × 290 × 390

Specifications and dimensions are subject to change without notice.

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ISO 9001(No.956445)/ISO 14001(No.771888)

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