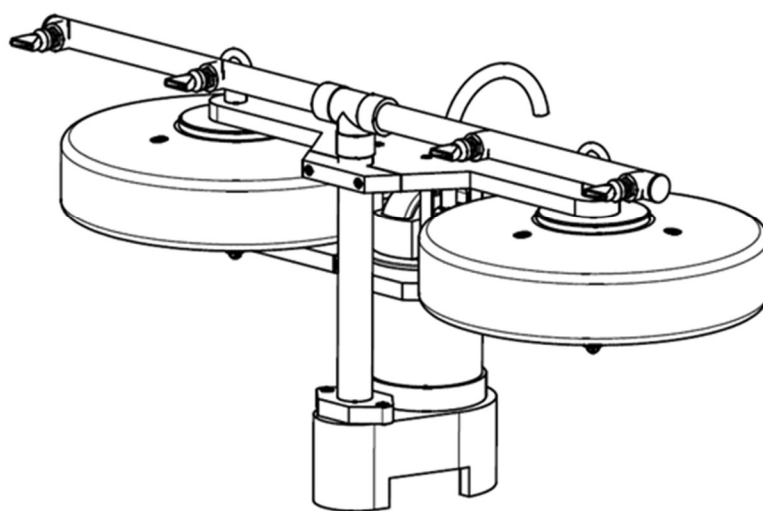


# JETFLO Instruction manual

## YD-25JFL

Ver. 20230425



 **World Chemical Co., Ltd.**

Thank you very much for purchasing our product, JETFLO (YD-25JFL).

This is a product which delivers floating scum to the collecting system efficiently. Each part's function and the handling procedure are explained in this manual. Please use the product with fully understanding of them.

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## 1. Safety precaution

Before use, read this safety precaution thoroughly and use a product properly.  
The safety precaution is categorized as "Danger" or "Caution" as stated below.





A wrong handling may cause a dangerous situation such as death or serious injury.





A wrong handling may cause a dangerous situation such as a minor injury or property damage.

Even if it is indicated as "Caution", it may lead serious consequences from situation to situation. Every caution is something important and it is vital to ensure them.



## Precautions for transportation & installation

<div> Danger</div>	
When carrying the product, make sure to withdraw liquid and be very careful of fall and slip drop, because of slippery by adhered painting scum or oil. Additionally, make sure to remove the power supply code.	Do not bend extremely, apply tension strongly to or pinch the power supply code or motor lead wire in a tiny space. It makes the one get scratch and causes the fire or electric shock.
Make sure to connect a ground-fault interrupter and an earth terminal to prevent an electric leakage, electric shock or motor failure.	
<div> Caution</div>	
When unpacking of a wooden crate, be careful to avoid injury by nails or chips.	Connect the power by a qualified person according to an electric technical criterion or company rules.


## Preparation and cautions for operation

	
Do not obstruct ventilation around the motor. It may cause the fire or failure for overheat.	Do not use the product where flammable gas flows, because there is the possibility of the fire or explosion.
If the motor gets overheated, it may cause the fire. Do not store combustible materials in the vicinity.	When touched rotating parts during operation, it gets hurt. Do not put your hands or fingers closer.
	
Check the rotation direction of the motor. When the rotation reversed, make sure to turn off the power and reconnect by switching two of the three power cables.	If electricity failure or shut down by protective equipment, the product restarts suddenly and it may lead injury. In this case, make sure to turn off the main power.
	If any failure happens, stop the operation immediately and take any measures properly.
If the impeller is forced to stop during operation, it may cause the motor or operation failure. Never do it.	Stop the operation in emergency situations such as the earthquake or fire.

## Cautions for maintenance

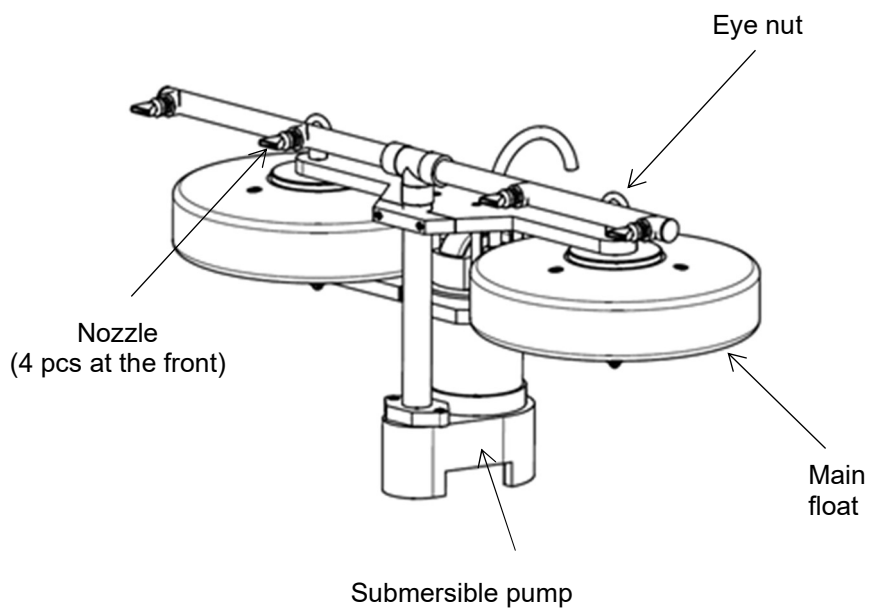
	When maintenance, make sure to turn off the main power in first. If the power on, an electric shock may happen.
	When repair, contact your supplier or us. If the product is sent to us, wash the main body thoroughly and pack it after checking no adherence or liquid leakage.

## Other cautions

	
Do not use the product with any performance other than the prescribed. If use it, it is not covered by our warranty.	When collecting anything other than floating scum by the product, ask your supplier or us. For your information, the product cannot be used for organic acid, strong acid and strong alkali. Do not use it for flammable liquid, too.
When the product is discarded, treat it as industrial waste after clearing adhered oil.	
The product modified by customer is not covered by our warranty.	

## 2. Part's name

YD-25JFL



## 3. Performance

25JFL	Liquid to be used	Waste water, Liquid containing floating objects
	Submersible pump	Standard performance: 2 m-180 L/min
		Standard power: Three phase, 200V 50/60Hz
		Dry underwater cage induction motor, 2 pole, 400W, Insulation E (with a thermal protector)
		Standard cable: VCT 6m
		Free passage double mechanical seal type
	Nozzle	Standard nozzle: Flare type (Nozzle width: 32mm)
		Material: Polyacetal
	Float	Material: Polypropylene
	Liquid temp.	0~40 degrees
	Weight	Approx. 17 kg
Option	Control panel	ON/OFF switch, Magnetic switch, Timer for intermittent operation

#### 4. Before use

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Open the packing and check as below.

#### Check the product

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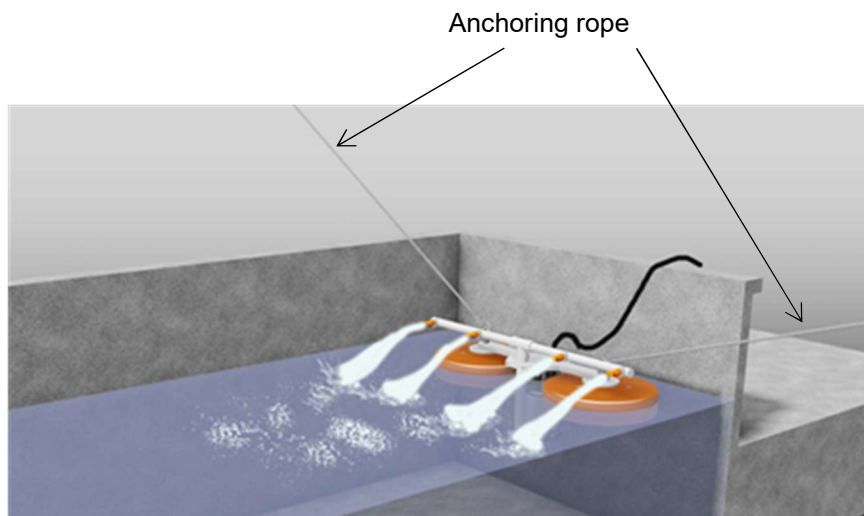
Check that there is no damage of parts or loosened bolts/nuts during transportation.



**Do not use the product with any performance other than the prescribed. It may cause the product failure, electric leakage or electric shock.**

#### 5. Installation

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1. Put YD-25JFL in a tank and fix the main body with ropes not to drift by injection power.
2. Turn on the power and operate the pump.
  - Check that the injection direction and angle are proper.
3. If necessary, take the product out from the tank and adjust them.
  - Each nozzle is attached with connectors and possible to adjust the angle flexibly.
4. When using a control panel, turn on the power and set the operation and suspension time of a timer according to the situation. The intermission operation makes floating objects move efficiently.

#### 6. Operation procedure

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The operation of the system is started by the pump power on. When it is finished, turn off the power.



- Use the product whose frequency is the same as the one at the place to use to prevent the pump failure or deficiency in performance.
- When starting the system operation, check nobody in the vicinity to prevent unexpected accidents.

## 7. Maintenance

- In spite of the system running, If injection failure or lack of the injection quantity happens, the foreign objects may go inside the pump. In this case, disassemble the product and remove objects.
- The period of oil change for the submersible pump is 4,000 hours. When change, contact us.

## 8. Troubleshooting

State	Cause	Measures
The product does not start, or stops immediately.	1. No power supply. (For electricity failure, etc.) 2. Protect equipment works for the suction of foreign objects. 3. The motor burns out. 4. Cut or connecting failure of a cabtyre cable. 5. Voltage drop to extend a cabtyre cable.	1. Check the main power. 2. Check the products and remove the foreign objects. 3. Repair or replace. 4. Change or connect Cabtyre cable properly. 5. Shorten the extended cable or change to the fat one.
Protect equipment works.	1. Motor failure (Burn out, immersion, etc.) 2. High liquid temperature. 3. Long operation in air.	1. Repair or replace. 2. Turn the liquid temperature down. 3. Decrease the liquid level after stop of the product.
No injection while operation.	1. Air lock. 2. The pump inside or piping is clogged. 3. The motor is reversed.	1. Stop and restart the product. 2. Remove the objects clogged. 3. Change the power connection.
Less injection quantity.	1. The impeller or pump casing is abraded. 2. Piping is clogged. 3. The operation liquid level is low and air goes in. 4. Liquid leaks from piping.	1. Repair or replace. 2. Clean the piping inside. 3. Turn up the liquid level. 4. Check and repair.

## 9. Warranty / Repair

### 1. period and coverage

- (1) The warranty period is 12 months from dispatched from our factory.
- (2) During warranty period, if the pump breaks down or is damaged at the use under the condition instructed in this manual due to manufacturing defect(s), the failure parts are repaired free of charge.
- (3) Even if the failure occurs within the warranty period, the followings are repaired or replaced for compensation in principle.
  - Breakdown or damage due to different use or safekeeping from the instructions in this manual.
  - Breakdown or damage due to incorrect use or unjust repair or modification.
  - Breakdown or damage as result of pollution, salt damage, gas damage, abnormal voltage or undesigned power (voltage, frequency) as well as fire, earthquake, flood disaster, lightning strike or other natural disaster.
  - Abrasion or degradation of consumable parts like a gasket or O-ring.
  - Breakdown or damage during transportation, for relocation or fall after your purchase
- (4) We cannot be responsible for the break down or damage of the customer-specified pump.
- (5) Irregularities or breakdowns due to chemical or hydrodynamic corrosion by liquid and abrasion by the slurry are not covered under the warranty. The material chosen at the time of the contract is only a recommendation. We do not guarantee the chemical resistance of the material.
- (6) If the determination of the cause for the breakdown or damage is questionable, it attributes to the negotiation between the customer and us.
- (7) Expenses or other damage incurred as a result of breakdowns at the use under the different condition from the instruction in this manual are not covered under the warranty.

### 2. Repair

**Notice:**

For repair, consult the supplier. When returning a pump, thoroughly clean and pack the wet parts kit.

If irregularities are detected during operation, stop the operation immediately for check. (Refer to the section on “troubleshooting”).

- (1) Consult your supplier or us for repair.
- (2) Read this manual again and re-check before requesting repair.
- (3) When visiting to a distance location for repair, the travel expenses are charged.
- (4) Inform the followings when requesting repair.
  - Model name and serial number
  - Use duration and condition
  - Damages parts and condition
  - Liquid (Name, Specific gravity, Temperature, Slurry)

If liquid leaks during transportation, it is very dangerous, so make sure to clean inside thoroughly.

### Installation record

Model:	
Purchase date:	Serial number:
Start date:	Supplier:

Ver.20240819



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