

IZS6 HORIZONTAL MULTISTAGE CENTRIFUGAL PUMP INSTRUCTION MANUAL



1. FEATURES AND APPLICATIONS

IZS series horizontal multistage centrifugal pump: impeller and diffuser are made of high reinforce engineering plastic; outer sleeve is SUS304; inlet and outlet are cast iron. Adopt optimization design, the performance reaches the advanced level of similar product. With the characteristics of beautiful appearance, corrosion resistance, high head, high efficiency, durability, etc.

IZS series pump motor has class F insulation, IP55 protection. Using high-temperature resistance bearing, UL or VDE approval capacitor, super mechanical seal, thermal protector for single phase motor.

IZS Series pumps is non-self-priming centrifugal pumps, axial inlet and radial outlet, attached with long shaft electric motor.

IZS series pumps widely apply to air-conditioning, cooling system, industrial washing, fire fighting system, water treatment (water purification), high building boosting, garden sprinkler, water supply, boiler feed, aquaculture and other uses.

2. OPERATION CONDITIONS

IZS pump is suitable for non-flammable, non-explosive clean liquids which must not attack the high reinforce engineering plastic.

Liquid temperature: $0^{\circ}\text{C} \sim +70^{\circ}\text{C}$,

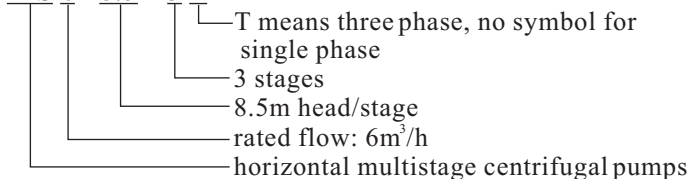
Maximum ambient temperature: $\leq 50^{\circ}\text{C}$,

Maximum working pressure: 1Mpa.

The max input pressure is limited by the max working pressure.

3. MODEL SYMBOL

IZS 6 - 8.5 × 3 T



4. INSTALLATION

Notice: ⚠

- 4.1. Do not install the pump in the sunbaked or wet place.
- 4.2. Install the pump to near the water source as short as possible to have a shortest suction pipe and prevent from reducing the suction.
- 4.3. Position the pump using the brackets.
- 4.4. Install the pump in dry and ventilated place to ensure safe operation.
- 4.5. Try to reduce the bend in pipe circuit as you can, the gradient should less than 2%.
- 4.6. The connection of pipe circuit should be water-tight, the pipes should be supported separately.

Please clearly read the manual before using the pumps

- 4.7. It's appreciated to install a vacuum meter and pressure gauge in the suction and discharge to observe the situation of operation.

5. ELECTRIC CONNECTION

Danger: ⚡

- 5.1. Ensure the voltage (V), frequency (Hz), phase (PH) is conform with the ones marked on the label. When the Voltage $\pm 10\%$, it will make the inset thermal protector operate and the motor stop operating.
- 5.2. Pump should be reliably earthed and with leakage protection switch.
- 5.3. The cord should meet the requirements of current.
- 5.4. Make sure the correct electric connection according to the wiring diagram.

6. START, OPERATION AND STOP THE PUMP

Warning: ⚠

- 6.1. Dry operation is prohibited to avoid burning of mechanical seal.
- 6.2. It could rotate freely from the fan cover by screw driver.
- 6.3. Turn on the pump, it should be clockwise view from the fan cover.
- 6.4. Fill water in the pump from the discharge valve.
- 6.5. Turn on the pump, open the discharge valve to set the flow and discharge pressure to the required data.
- 6.6. Close the discharge valve before stopping the pump and power.

7. MAINTENANCE

Notice: ⚠

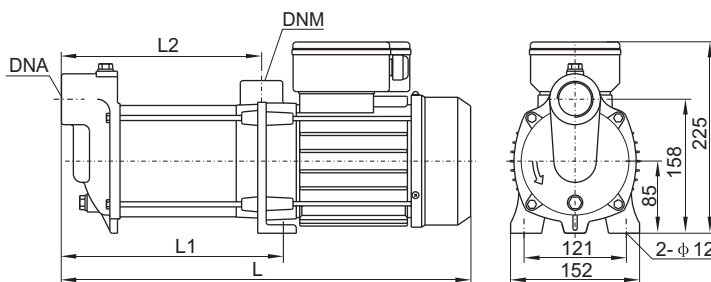
- 7.1. It is prohibited to start the pump frequently, it should disconnect the switch when the power supply is suddenly interrupt.
- 7.2. It is not allowed to use the suction valve to adjust flow.
- 7.3. When the water is insufficient, it should stop the pump.
- 7.4. If there is some abnormal noise, please stop the pump and check.
- 7.5. If the pump is not use for long time or stop in low temperature, water should be drained to avoid damaging the pump body as freezing.

⚠ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
Type y attachment damaged supply cords to be replaced by the manufacturer, service agent or similarly qualified person to avoid hazard.

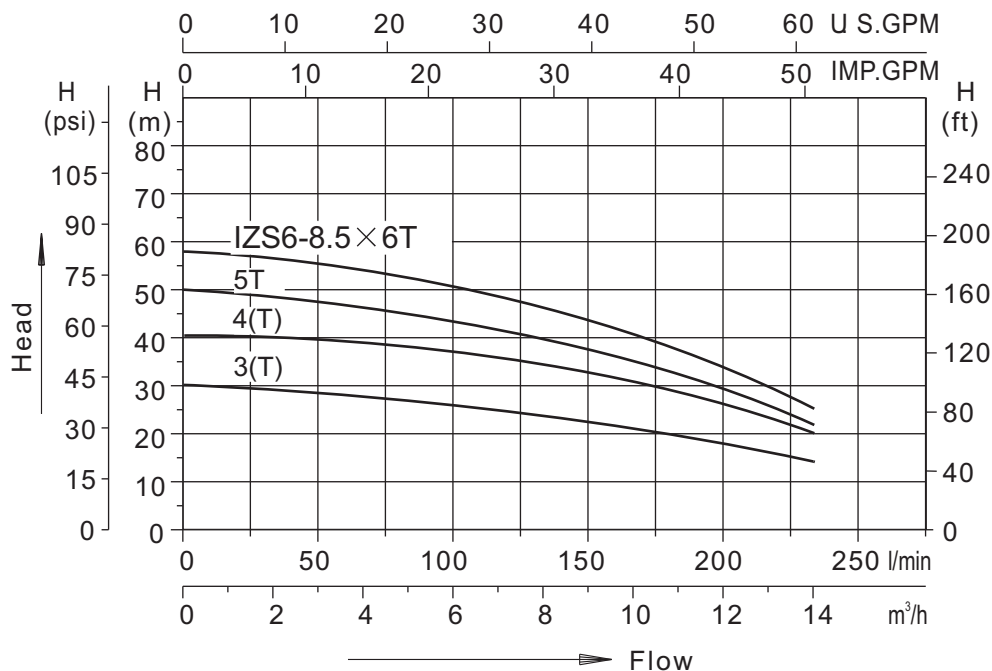
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8. INSTALLATION DIMENSION

Model	Power(P ₂) kW	Shape size (mm)			DNA	DNM
		L	L1	L2		
IZS6-8.5×3(T)	1.1	470	250	226	G1¼	G1¼
IZS6-8.5×4(T)	1.5	507	287	263		
IZS6-8.5×5T	2.2	544	324	300		
IZS6-8.5×6T		581	361	337		



9. PERFORMANCE CURVE



10. TROUBLE SHOOTING

PROBLEMS	POSSIBLE REASONS	SOLUTION
The pump does not run	The voltage is not correct. Fuse or thermal protector makes the pump stop running.	Check the voltage on the name plate. Check the fuse or thermal protector.
The pump does not pump properly	Too much high head Too low water level Bottom valve not in water No water Leakage of inlet pipe	Check the suitable head. Check the suction head. Have the valve in the water. Fill the pump with water. Check the suction conditions.
The pump runs but no water	The foot-valve is blocked. The impeller is corrosive. The bottom valve is not in the water. No priming water. Leakage in suction pipe.	Check the suction height and re-install the pump. Replace the impeller. Fill the suction section with water. Fill the pump with water. Check the suction conditions.
The flow reduces obviously	The foot-valve is blocked. The head is too high. The water level is too low. The impeller is serious damage.	Clean or replace the foot-valve. Check the installation height. Check the suction head and re-install the pump. Replace the impeller.
The motor is over heating	Low voltage or insufficient ventilation in pump room	Contact the electric power company to supply stable voltage. Have good ventilation.
The pump stops soon after starting	Low voltage or insufficient ventilation in pump room	Contact the electric power company to supply stable voltage. Have good ventilation.