



Designed by **VIVOSUN** in California.
Made in China



4GPM Industrial Water Pressure Pump

USER MANUAL

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Welcome to **VIVOSUN**

Thank you for choosing VIVOSUN. We are committed to product quality and friendly customer service. If you have any questions or suggestions, please don't hesitate to contact us.

CONTENTS

Product Description	1
Features	1
Parameters	2
Wide Application	3
Operating Instructions	3
Repair Kits	4
Troubleshooting	5
Cautions	8

PRODUCT DESCRIPTION

This VIVOSUN F33 pump is a diaphragm pump with 3 chambers and a powerful motor drive. It produces an open flow rate of 4 GPM. The high-quality material and refined design enable it to be an excellent choice. Additionally, the pump comes with a variety of easy-to-install connection accessories and filters.

FEATURES

Built-In Thermal Protection

When the motor is overheating, the pump will automatically stop running until the temperature reduces to an appropriate and safe level. Once it reaches this temperature, it will start operating again.

Automatic Pressure Switch Control

This is an automatic diaphragm pump with a pressure switch. It starts automatically when the faucet is switched on and stops working automatically when the faucet is switched off.

Pure Copper Motor

The pump is equipped with a 100% copper motor that has an overload and overheat protection function. When the motor overheats, it can automatically disconnect the power to the electronic circuits. Compared to other models, it has higher performance, less noise, and higher speed, enabling it to operate safely and reliably.

Iron Fixing Plate

The anti-vibration fixing plate at the base can greatly reduce the motor's noise output. With the galvanized anti-rust treatment on the surface of the plate, it resists corrosion and will not rust easily even in a humid environment.

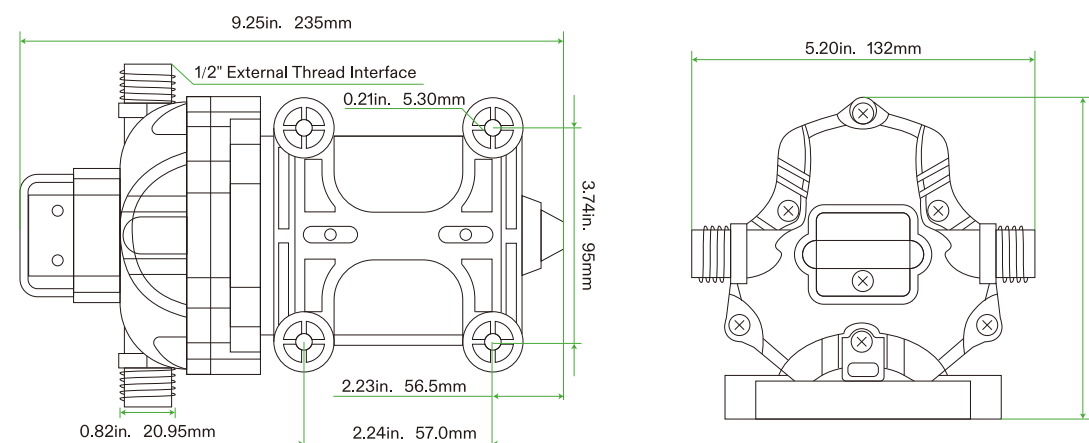
Standard Accessories

We use the standard 1/2" thread for easier operation and quicker installation.

PARAMETERS

Model	WP-0001	Control Method	Pressure Switch
Color	Blue & White	Cable Interface	American Standard Plug
Voltage	AC 115V		
Current	1.30A	Interface Type	1/2"-14 External Thread Interface
Power	150W		
Suction	10ft.	Valve Material	EPDM
Flow Rate	4.0GPM(15L/min)	Diaphragm Material	Santoprene
Stopping Pressure	45psi (3.1bar)	N.W./G.W.	5.3/5.9 lbs.
Lift	100ft.	Size	9.3x5.2x4.9 inch

Installation Display



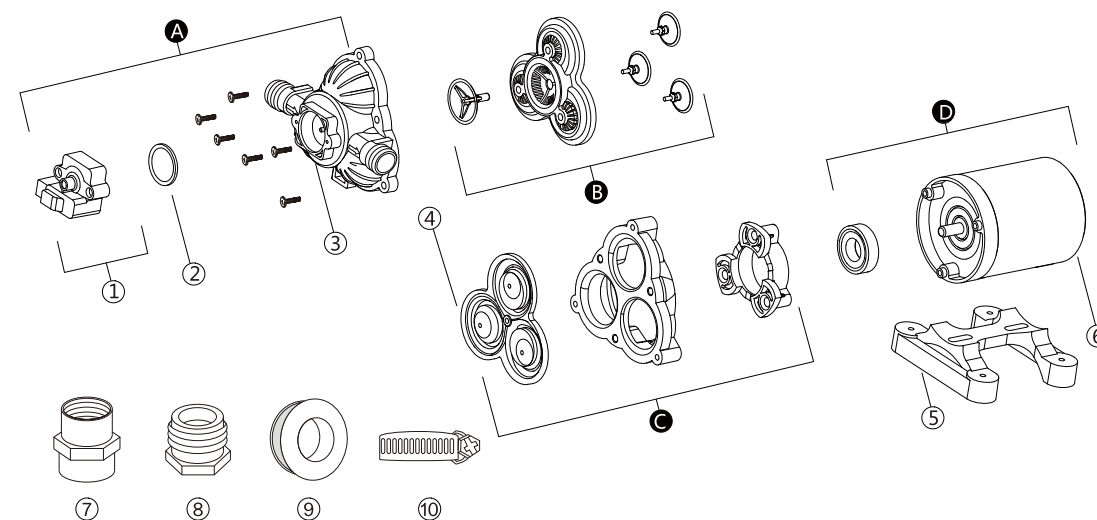
WIDE APPLICATION

The F33 series AC diaphragm pump is widely used in yachts, RVs, agricultural irrigation, industrial plants, liquid transfers, water purifier boosters, solar water systems, car washes, and more.

OPERATING INSTRUCTIONS

1. Please make sure the water pump is connected tightly to the inlet and outlet pipes. Several problems may occur such as low pressure, insufficient water suction, and water leakage, etc.
2. Install a filter at the inlet end. The optimal density of filtration is above 50 mesh.
3. Connect the power supply to the water pump. The output parameters of the connected power supply must meet the motor's input requirements.
4. Turn on the power. The pump will run water for 5-10s, draining water and driving air out of the pipelines. When the water output is stable, turn off the power temporarily and connect the pump to the water gun, faucet, shower, or other similar devices that can supply water.
5. Turn off the water faucet when it is not in use. The faucet has an automatic pressure control switch. If you turn on the tap once, it will work automatically the next time.

REPAIR KITS



Letter/Number	Description	Quantity
A	Pump Head Assembly	1
B	Valve Assembly	1
C	Diaphragm Assembly	1
D	Motor Assembly	1
1	Pressure Switch	1
2	Diaphragm of Pressure Switch	1
3	Pump Head	1
4	Diaphragm	1
5	Rubber Feet	1
6	Motor	1
7	F4205 Copper Female Connector	1
8	F4206 Copper Male Connector	1
9	Thread Seal Tape	1
10	Water Pipe Clamp	2

TROUBLESHOOTING

Breakdown	Cause Analysis	Troubleshooting
The machine is not responding	Check if the whole line is connected.	Double check the whole line and ensure the connection is reliable.
	The power supply, motor, main switch, or pressure switch is damaged.	Replace the appropriate parts.
Reduced water pressure	A ruptured inlet pipe caused an air leakage; Alternatively, air leakage may be due to poor sealing at the connection between the inlet pipe and the pump.	Replace the inlet pipe or reinforce the connection between the water pipe and the pump to prevent air leakage.
	The inlet pipe was squeezed, resulting in poor water intake.	Replace the intake pipe
	The power cord, the water inlet, and outlet pipes are too narrow or long. The filter area is too small.	Adjust the related parts.
	Low supply voltage.	Replace the current power supply with the the appropriate power supply.
	The water inlet filter is blocked.	Clean the water intake filter screen.
	The screw between the motor bracket and the motor is loose.	Remove the connection and tighten the screws
Water leakage at the interface	The clamp or screw is not sufficiently tight.	Adjust the tightness.

TROUBLESHOOTING

Breakdown	Cause Analysis	Troubleshooting
No water suction	Low supply voltage.	Replace the right power supply.
	A ruptured inlet pipe caused an air leakage; Alternatively, air leakage may be due to poor sealing at the connection between the inlet pipe and the pump.	Replace the inlet pipe or reinforce the connection between the water pipe and the pump to prevent air leakage.
	The inlet pipe was squeezed, resulting in poor water intake.	Replace the intake pipe.
	This pump delivered dirty water, which caused serious damage to the seal of the valve group inside the pump.	Replace the valve block.
Motor pump turns on and off repeatedly (due to the pressure switch)	The pump delivered dirty water, which caused serious damage to the seal of the valve group inside the pump.	Replace the valve block.
	The water outlet has a leakage.	Fix the water leakage at the water outlet.

TROUBLESHOOTING

Breakdown	Cause Analysis	Troubleshooting
Water leaking from the pump head	The pump head has damaged parts.	Replace the damaged parts.
	The pump head's screws are loose.	Tighten the screws.
	The pressure is set too high.	Adjust the pressure setting to an appropriate value.
	There is a loose screw between the return valve seat and pump head.	Tighten the screws.
Unstable water pressure / Motor pump is shaking intensely	The pressure is set too low (Note: The pressure setting is influenced by vibration and other factors).	Use a screwdriver to adjust the pressure setting (Note: Rotate the screw until the pump doesn't shake; Do not rotate the screw too much, or it will block the pump).

CAUTIONS

1. When the pump is working, it is necessary to ensure smooth drainage to avoid blocking and causing damage to the pressure switch.
2. If you hear a strange ticking sound from the switch during operation, please turn off the pump immediately and turn up the pressure appropriately.
3. The motor is slightly waterproof, so don't worry too much if a bit of water gets on it. We recommend drying it as soon as possible. It is strictly forbidden to immerse the motor in water. If the motor is used outside, it should be protected with a cover to prevent water from contacting the motor and potentially causing power failure, leakage, or motor damage.
4. The water inlet must have a filter. Impurities in the liquid may block the pump, resulting in a series of problems like lower pressure, lower flow, pump damage, and failure to pump water. It is strictly forbidden to use this pump without connecting the filter. The optimal filter density is more than 50 mesh.
5. Warning: Please use the 115V AC motor. The use of 220V is prohibited, as it will burn the motor directly.
6. The pump can convey water, weak acids, alkalis, salts, and other liquids. It is not allowed to convey liquids with particles, gasoline, and other combustible liquids.
7. The water pump does not support 24-hour continuous work. Intermittent work will help extend the life of the pump. Please turn off the power to the pump when not using the pump for extended periods.
8. The water pump features an automatic pressure switch to allow you to adjust the pressure freely as needed. Avoid the extremes, as too low pressures will result in frequent starting and stopping and even motor burns, whereas too high pressures will cause the pump to shut down abnormally.
9. After using this pump during a cold winter please drain any excess water as freezing will cause cracks in the water pipes.
10. The water pump has been tested for performance. Please do not disassemble it by yourself. Check the power supply before use; the power supply parameters must be consistent with the motor pump input parameters.
11. Proper installation requires placing the pump head down or flat to avoid water leakage into the rotor.