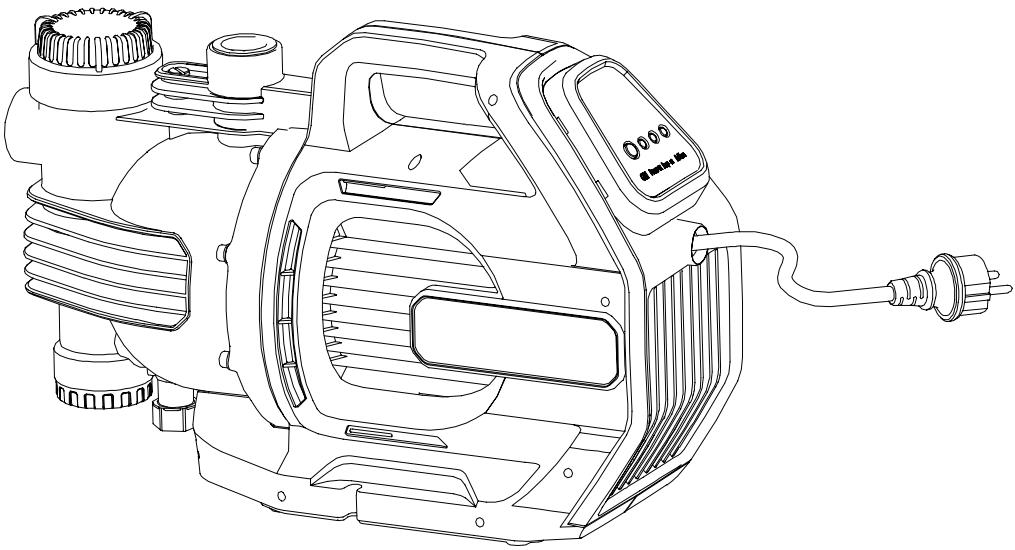
EN

Instruction manual

HydroPUMP 900



Automatic **water pump**

AQUAVIE®
TECHNOLOGIE

Read through all the instructions before installing and using the appliance.

CONTENT

AQUAVIE®

TECHNOLOGIE

SAFETY INFORMATION

1.Please read the instructions for use very carefully and observe the information they contain. By referring to these instructions, familiarize yourself with the appliance, learn how to use it correctly, and note the safety precautions to be taken.

2.Take the appropriate steps to ensure that children have no access to the appliance.

3.The user of the appliance is responsible for any third parties in the work area.

4.Before using the appliance for the first time an electrician must check that the necessary electrical protection measures have been taken.

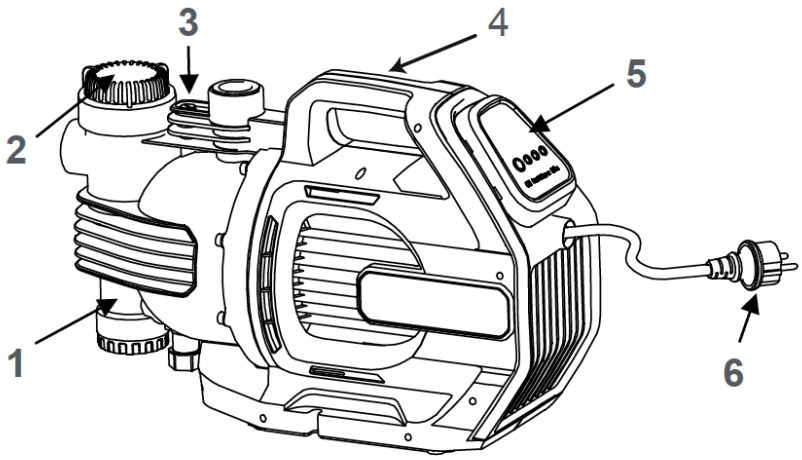
CAUTION!

1. The pump must not be used when people are in the water.
2. The pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.
3. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
4. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
5. Please contact your electrician!
6. Inspect the appliance before each use. Do not use the appliance if the safety devices are damaged or worn. Never deactivate the safety devices.
7. Use the appliance only for the purposes specified in these instructions for use.
8. You are responsible for safety in the work area.
9. Your mains supply must comply with the voltage of alternating voltage specified on the type plate.
10. Never lift, transport or secure the pump by its power cable.
11. Make sure that appliance is plugged into a socket in a place where there is no risk of flooding and which is protected against moisture.
12. Always remove the plug from the socket before doing any work on the pump.
13. Avoid exposing the pump to direct jet of water.
14. The operator is responsible for any local safety and installation regulations (Ask your electrician for advice.)
15. Rule out any indirect damage caused by the flooding of rooms following the failure of the pump by adopting the appropriate measures (e.g. the installation of an alarm system, a reserve pump or the like).

16. If the pump fails, any repair work necessary must be performed only by an electrician.
17. Never let the pump run dry and never operate it with fully closed intake power. The manufacturer's warranty shall lapse if the pump is damaged due to it being allowed to run dry.
18. The pump must not be used to operate swimming pools.
19. The pump must not be installed in the drinking water pipe line.

DESCRIPTION

Fig.1



1. Pump head
2. Transparent cover
3. Valve cover
4. Handle
5. Electrical box
6. Plug

Remark:
The image shown here is indicative only. If there is inconsistency between the image and the actual product, the actual product shall govern.

DURABILITY AND APPLICATIONS

DURABILITY

• The maximum temperature of the medium to be pumped in continuous operation should not exceed +35°C.

• This pump is not to be used to pump combustible, gaseous or explosive fluids.

• The pumping of aggressive fluids (acids, alkalis, silo seepage etc.) and abrasive substances (sand) should also be avoided.

APPLICATIONS

Areas of use:

• For irrigating and watering parks, vegetable patches and gardens

• For operating lawn sprinklers

• With a pre-filter, for drawing water from ponds, streams, rain-butts, rain-water cisterns and wells.

Media which can be pumped:

• For the pumping of clear water (fresh water), rain water.

OPERATING INSTRUCTIONS

Basically, we recommend the use of a pre-filter and an intake set with an intake hose, an intake strainer and check valve in order to prevent long repairing times and any unnecessary damage to the pump caused by stones and hard foreign bodies.

ELECTRICAL CONNECTIONS

• The power supply has a reliable grounding connection and is connected with a leakage current protection switch with a maximum leakage current of 30mA.

• The pump needs to be started by touching the ‘Restart ‘ button.
(Some models may have an «ON» button)

• The pump comes with a thermal overload protector, which will automatically turn off the pump in case of overheating. The water pump will automatically restart after cooling.

SCHEMATIC DIAGRAM OF PIPELINE INSTALLATION

Please refer to the following schematic diagram to connect the pipelines. (Fig.2 and Fig.3)

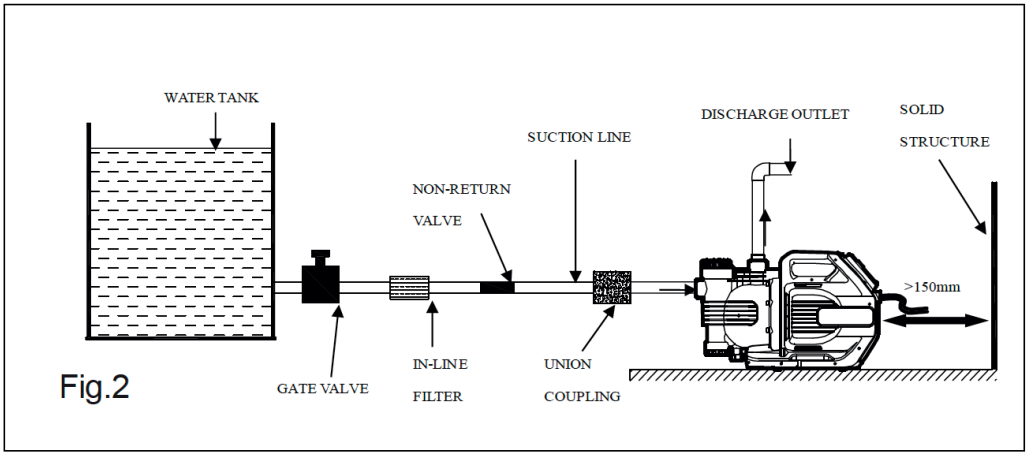


Fig.2

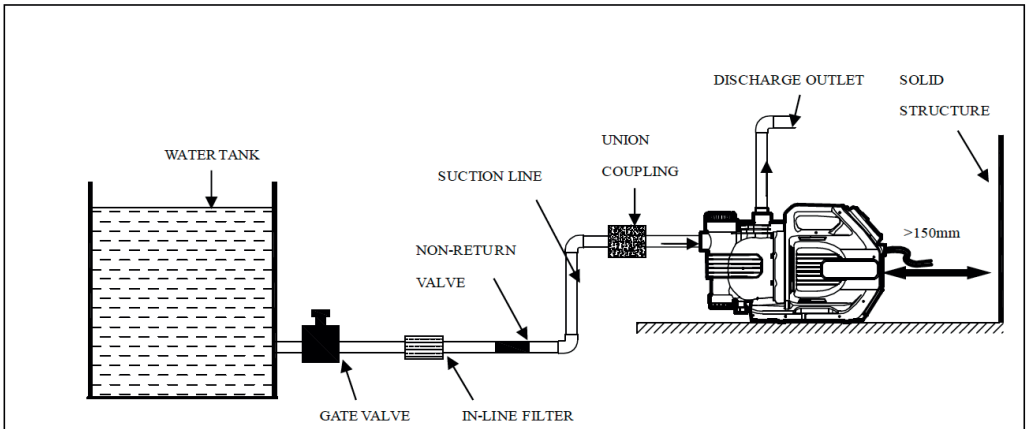
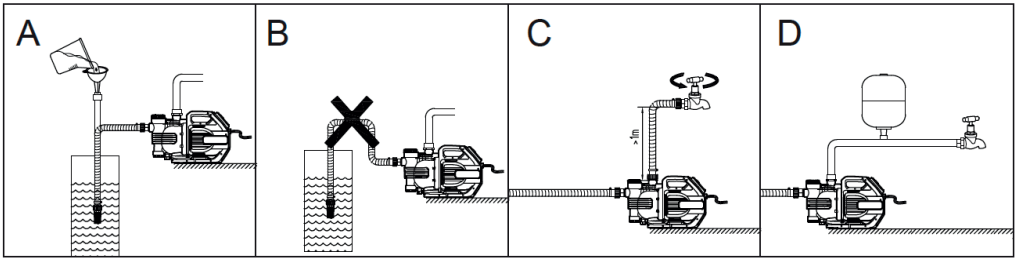


Fig.3

PREPARE



• Place the pump on a level and firm ground, or fix the pump on the ground.

• Connect the suction pipe.

• Install suction pipe. If necessary, wrap Teflon tape around the thread to prevent air leakage at the joint.

Tip:

1.In order to shorten the water absorption time, it is suggested to fill the water absorption pipe with water before connecting it to the pump. (Figure A)

2.The water inlet pipe used is at least 3/4», and it is a vacuum-proof hose or pressure-resistant hard pipe reinforced with threads.

3.The water inlet pipe used should have a water inlet valve to prevent the suction pipe from emptying after use.

4.If the water inlet pipe is not sealed, the air in the pipe will hinder the water from entering.

5.The water inlet should be sufficiently immersed in the water to prevent the water pump from stopping without water when the water level drops.

6.The installation of water inlet pipe and pressure pipe should avoid any mechanical twisting and pulling of water pump.

7.The water inlet pipe should be connected to the pump from the water, and the pipeline should not be higher than the pump, otherwise bubbles will form in the pipeline to hinder the water flow. (Figure B)

• **Connecting pressure pipeline**

Tip:

1.The pressure pipe should be able to withstand the maximum pressure of the pump.

2.The 1/2 «pressure hose can also be connected with a proper connector, but it will reduce the output flow.

3.To shorten the suction time, increase the pressure hose by about 1m. (Figure C)

4.Slight unsealing will lead to failure, so it is suggested to install a pressure balance component (such as a pressure tank) on the pressure side, which can reduce the number of times to start the pump. (Figure D)

5.In order to simplify the emptying and decompression of the system, it is suggested to install a stop switch between the pump and the pressure pipeline. When emptying the pump, water can be prevented from overflowing from the pressure pipeline by closing the stop switch.

• Connect to power supply

• All shut-off devices (injection nozzles, valves, etc.) on the pressure pipe must be completely opened when water is injected and sucked, so that the air in the pipe can completely escape. (Figure C)

• Fig.1. Screw off the parts with serial number 3, and add water to the water inlet of the pump head until it overflows.

• Fig.1 Screw the part No.3 to the water inlet and tighten it.

RUN AND END OPERATION

RUN

• Plug in the power supply.

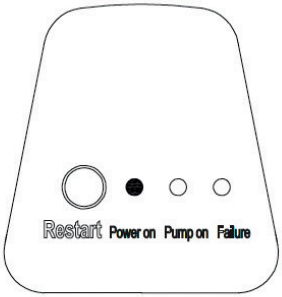
• Press the «Restart» key on the switch panel with your finger, and the pump will start pumping water. (Some models may be the «ON» button, but the function is the same.)

END OPERATION

• Unplug the power plug from the socket.

• Check whether there is pressure on the pressure side. If there is pressure, release it by turning on the faucet.

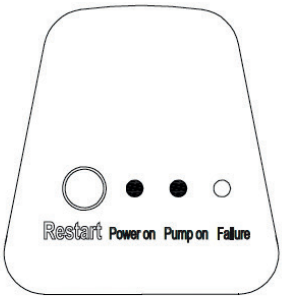
INSTRUCTION OF LED LIGHT



• The «Power on» indicator is on.

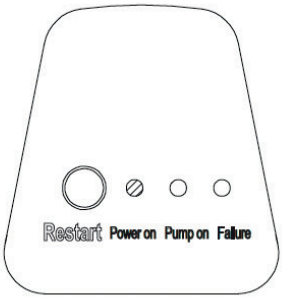
o It indicates that there is power supply in the line, but the pump is not working. Press the «Restart» key to start the pump.

o It is also possible that the pump is in the state of pressure maintenance and shutdown, and the pump will automatically start pumping when the pressure of the pressure side pipeline is lower than the starting pressure.



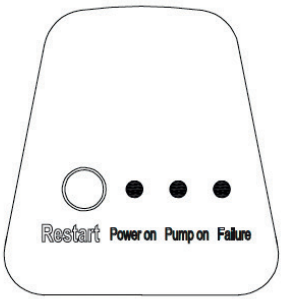
• «Power on» indicator lights up and «Pump on» indicator is on.

o It shows that the pump is working normally to pump water.



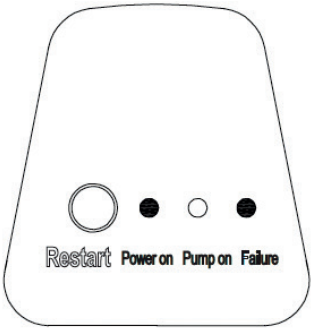
• «Power on» indicator flashes for 1 second/time. Pressing the «Restart» key at this time is invalid.

o It means that the pump is in standby state, and there is pressure in the pipeline on the pressure side. When water is taken or the resulting pressure drops, the pump will restart.



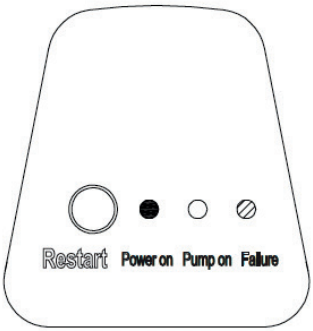
• The «Power on» indicator is on.
The «Pump on» indicator lights up and the «Failure» indicator lights up.

o It indicates that the pump is pumping water, but there is no water flow in the pipeline. If there is no water for 30 seconds,The pump will enter the shutdown state.



• The «Power on» indicator is on.
The «Failure» indicator is on.
Press the «Restart» key to start the pump again.

o It indicates that there is a fault, and the pump has stopped working. This may be because there is no water source, the filter screen is blocked, the water inlet pipe leaks or the parts of the pump are damaged. Check and repair the problem according to «Troubleshooting».



• The «Power on» indicator is on.
«Failure» indicator flashes for 1 second/time.
At this time, pressing the «Restart» key is invalid. Only when the plug is unplugged and the fault is repaired, the pump can be started again.

o It indicates that there is a fault, and the pump has stopped working. This may be due to the leakage of the pipeline on the pressure side, or the leakage of the pump head seal of the machine, and the machine is frequently turned off and on, prompting the protection function to be turned on.

PANNES ET SOLUTIONS

Warning: In order to avoid harm, all the installation of maintenance and replacement parts can only be completed by authorized customer service personnel.Be sure to turn off the equipment and unplug it from the power supply before doing any operation on the machine.

Fault	Reasons	Trouble clearing
The pump does not start running or stops suddenly during operation.	Power supply is interrupted/external power supply is not connected	Check the safety device and electrical connection, and turn on the external power supply
	Power cord or plug is defective	Submit it to a professional electrician for inspection
	Mechanical seal suction	When the pump is not used for a long time, the mechanical seal will have resistance. Turn off the pump, unplug the power plug, and let the pump cool. Turn the tail of the shaft with a screwdriver. When the shaft is loose, the pump can be powered on.
The pump does not start running or stops suddenly during operation	The installation height of faucet exceeds the pressure value set by the pressure switch	Adjust the set pressure value of the pressure switch if necessary.
	Other defects	Hand it over to the maintenance department for inspection
Insufficient/ no flow (Or unable to self-inhale)	Dirty water or granular sewage reduces the pumping capacity of the pump	Clean the filter screen and replace damaged parts (such as worn impeller, etc.)
	Hose/line/screen blocked	Clear the pipeline/clean the screen

Fault	Reasons	Trouble clearing
Insufficient/ no flow (Or unable to self-inhale)	The inlet pipe is too soft, which causes the pump to suck flat and cannot pump water	Replace the thread reinforced vacuum-proof hose or pressure-resistant hard pipe
	There is air in the pump head, but it is not filled with water	Check whether the water source is sufficient, and immerse the suction port into the water for more than 10cm
	The suction port is immersed in water less than 10cm	Fill the pump head with water
	The joint of suction pipeline is not sealed	Replace the joint seal to make the joint completely sealed
The product shut off in a short time	The pipeline or pump is blocked abnormally, and the thermal circuit breaker cuts off the circuit.	Clear the blockage, and electrify to pump water after the pump is fully cooled
	The thermal circuit breaker cuts off the circuit because the environment or water temperature is too high.	Ensure that the water temperature and ambient temperature are lower than 35℃, and then electrify to pump water
	Impeller breakage causes blockage	Hand it over to the maintenance department for inspection
The pump starts frequently	Leakage of pipeline or joint	Check the pipes and joints, and re-install them correctly to ensure no leakage
	Foreign matter stuck in the check valve, resulting in leakage	Check the check valve, add a check valve on the inlet side if necessary, and strongly recommend installing a filter device on the inlet side
The pressure switch does not operate (Do not close)	Foreign matter stuck in the valve core of electronic pressure switch	It is strongly recommended to install a filter device on the inlet side to clean foreign bodies.

MAINTENANCE INSTRUCTIONS

• The pump is basically maintenance free. To ensure a long service life, however, we recommend regular checks and care.

• Warning! Before every servicing, switch off the pump and remove the plug from the socket.

• Regularly check whether the pre-filter is contaminated. In case obvious pollution, do the following:
Fig.1 unscrew the part with serial number 2.
Take out the pre-filter and put it under tap water for cleaning.
Reinstall the pre-filter, screw on the part No. 2 and tighten it.

• If the pump is not going to be used for a long time or has to be removed for the winter months, rinse it out with water, empty it completely and allow it to dry.

• If there is a risk of frost, the pump must be emptied completely.

• After long stoppages, make sure the rotor turns correctly by briefly switching the pump on and off.

• If the pump becomes blocked, connect the pressure line to the water line and remove the intake hose. Open the water line, Switch on the pump several times for approx. 2 seconds. Most blockages can be removed in this way.

REPLACING THE MAINS CABLE DISPOSAL AND DISPOSAL

• Warning! Disconnect the pump from the mains!

• If the supply cord is damaged, it must be replaced by the manufacture or its service agent or a similarly qualified person in order to avoid a hazard.

• Warning! The pump must never be allowed to run dry!

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

TECHNICAL DATA

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Model	HydroPUMP 900
Mains supply	AC 220-240V/50Hz
Power rating	900W
Max. head	44m
Max.delivery rate	5400 L/h
Max.suction height	8m
Starting pressure	1,5bar
Through particulate matter	35°C
Moisture protection	IPX4
Adaptable connecting pipe diameter	1”
Specification of pipeline connectors	G1”

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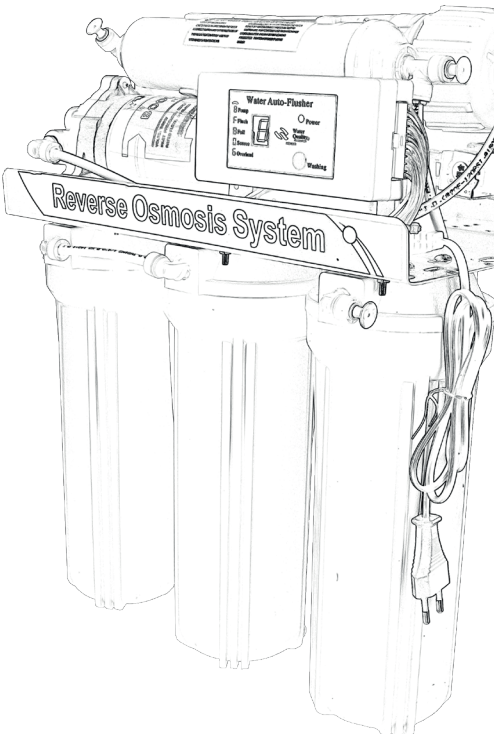

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