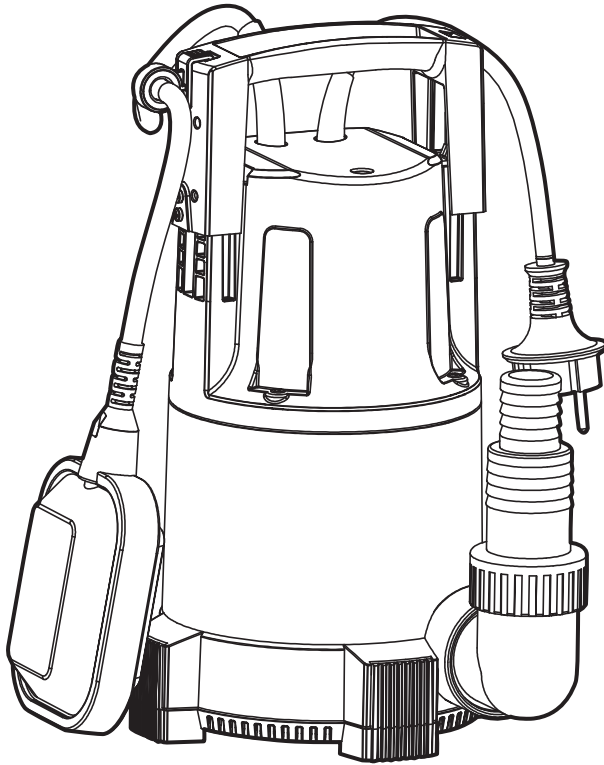




SIRENA

# Submersible pump





## **INTRODUCTION AND SAFETY**

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Thank you for purchasing this product. Please read these instructions, and keep them for future reference.

This tool is an electric pump. It is used for pumping water and other similar water applications.

After opening the package, please ensure that the products are complete (if any).

If the products are damaged or there is something missing, please do not use it and bring it back to your dealer.

If you give this tool to another person, please give him this instruction manual.

### **Safety Instruction**

1. All electrical sockets must be earthed.
2. No power cord should be used for transporting or fixing the equipment.
3. Don't pull the power cord on the sharp edge and don't press the power cord.
4. The power supply voltage must be the same as the voltage given on the model board.
5. To avoid hazards, all installation and replacement of components can only be carried out by authorized customer service personnel.
6. Electrical connections can only be performed by electrical professionals, and please comply with state regulations for this.
7. The pump must be connected with a current type leakage current breaker which carry a rated leakage current of no more than 30 MA.
8. Check the connection of the plug before running. If the wire is damaged, it must be replaced by the manufacturer, the agent or the relevant technical personnel to avoid any danger.
9. The device is suitable for children at eight or older. People with sensory or physical disabilities or deficiencies are required to use under supervision or knowledge of safety, use and danger.

## INTRODUCTION AND SAFETY

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Children are not allowed to wash or maintain equipment without supervision.

10. Liquid contamination may be caused by leakage of lubricating oil.

11. The water pump can be connected with a shock proof plug installed in accordance with the regulations.

12. Do not use pumps when there is someone in the water.

13. When cleaning and maintaining, please disconnect the water pump from the main power supply.

14. Please contact technical staff .

15. Connectors for power plugs and extension cables must be made sure that they are watertight and must not be placed in the water. Furthermore, connectors cannot be placed on the ground. It is recommended to ensure that the outlet is at least 60 mm from the ground.



**None follow of the safety tips will have the life risk brought by the current!**



**Danger type and source:**

**None follow of the safety tips will have the life risk brought by the current!**

**Do not repair the power cord if there is any external damage to the power cord or plug.**

## **INSTALLATION AND COMMISSIONING**

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Long enough and strong ropes should be attached to the handle before the first use. When the pump is immersed into the liquid, the rope along with a handle can be used to balance the pump.

### **Installation**

The equipment requires an area of at least 60x60cm.

Depth of equipment immersed in technical parameters.

When installing the equipment, make sure the open will not the suction opening will not be blocked by foreign objects to keep the equipment stable.

### **Set toggle switch**

1. A change-over switch is a device that can be steplessly adjusted. For this, you first need to loosen the screws. The position control height of the switch water can be set by stepless adjusting the length of the power line.

2. Please check the following items before the pump starts running:

3. A float switch must be installed so that it is easy to switch between the ON and OFF switching points. This should be checked, and the floating switch should be carefully picked up and put down again. When you do this, pay attention to the switching status of the switch.

4. Ensure the distance between the top of the floating switch and switch line card buckle is not too small. If the distance is too small, it cannot guarantee normal work.

5. When you set up the float switch, make sure that the switch does not touch the base before the pump is opened. Warning: There is a risk of dry running.

6. Set the switch to automatically control the height of the water level by adjusting the position of the float switch cable at the card line.

7. Please check the following items before the pump starts running:

## INSTALLATION AND COMMISSIONING

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8. The float switch must be clamped at the card line so that it can normally float, control, turn on and off. This should be checked, and the floating ball switch should be carefully picked up and put down again. When you do this, pay attention to the switching status of the switch.

9. Ensure the distance between the top of the floating switch and switch line card buckle is not too small. If the distance is too small, it cannot guarantee normal work.

10. When you set up the float switch, make sure that the switch does not touch the base before the pump is opened. Warning: There is a risk of dry running.

### **Risk for equipment damage!**

**Do not lift the pump by cable or pressure hose, because these cables or pressure hoses are not designed for tensile strength from pump weight.**



**The float switch must be able to move freely and the submersible pump cannot be used in a dry environment.**

### **Attention:**

**For rope handling: Do not operate the pump without the pressure hose to prevent the pump from twisting around its longitudinal axis. In continuous use of a pump with a rope, the condition of the rope must be checked periodically, as it may break with increasing use time.**



### Connecting pressure pipe

- screw the pressure pipe onto the pressure connector. All joint connections must be sealed with a threaded sealing stripe.

-When using the hose, screw the right hose adapter into the pressure connector.

-Secure the hose firmly to the hose adapter and secure it with a hose clamp.

If it is used occasionally, please use a suitable pipe. A rigid pipe with a check valve is recommended for use in a fixed position.

This can be done at the close of the machine to prevent liquid backflow.

Use a strong rope to connect the handle of the pump and dip it into the liquid to be conveyed at a certain angle, so that the lower side of the device has no bubble formation to prevent the bubbles from being sucked in. Put the equipment down slowly, and once the pump is submerged, it can be adjusted again. The pump is arranged at the bottom of a liquid container, Fasten the end of the rope after lowering so that the pump can also be handled when hanging on the rope. The pump can work after the device is connected to the main power source.



**The pump is not allowed to transport corrosive substances, flammable and explosive substances (such as gasoline, petroleum, nitro diluent), grease, oil, brine and toilet equipment sewage, as well as low mobility mud sewage. The temperature of the liquid cannot exceed 35 °C.**

## ERROR SHOOTING

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In most cases, you will be able to troubleshoot problems easily by yourself. Before you contact us, please refer to the following table for technical support. This will help you save a lot of work and possible expenses.

Error	Reasons	Errorshooting
The pump cannot start	1.Unconnected power. 2.The float switch is not turned on.	1.Check power supply. 2.Lift the float switch up.
No water	1.Inlet obstruction. 2.The pressure hose is bent .	1.Clean the inlet . 2.Adjusting hose .
The pump cannot close	1.The floater cannot sink.	1.Put the pump in the vertical well bottom correctly.
Too small flow rate	1.Inlet obstruction. 2.Debris and particles cause the wear of a critical part of the pump which reduces the flow of the pump.	1.Clean the inlet. 2.Clean the pump and replace worn parts.
Close the pump after a short period of time	1.If the water is too dirty, the pump may stall, and the heat protector will cut off the water pump motor power supply . 2.If the water temperature is too high, the heat protector will cut off the water pump motor power supply .	1.Disconnect the main power supply and clean the water pump . 2.Ensure that the maximum water temperature is not exceeded 35 °C.



Clean the equipment from the outside.

Flush with clean water. Use brush and detergent to remove stubborn pollution. Immerse the pump into a container with clean water, open it for running a while, and flush it in the pump.

### **Attention:**



**Before using the pump again, first "clean" to prevent any possible dirt residue which could affect the equipment operation.**

### **Storage**

If there is a risk of frost, remove equipment and accessories, and clean and store it a place protected from frost.

### **Using scope**

The pump is mainly used in a basement. When installed at the bottom of the shaft, the pump prevents seep in the basement. It can also be used for water supply and drainage, such as household, agriculture, gardening, pipelines and other suitable occasions.



### **Risk for equipment damage!**

**Frost will destroy electrical appliances and accessories, because they always contain water.**

### **Process equipment**

Products marked with adjacent symbols shall not be treated as domestic rubbish. You must deal with these old electrical and electronic equipment separately.

Please contact local authorities to see if they can be handled properly. Make the old equipment available for recycling, processing, or other forms of second use by separate handling. You can avoid polluting the environment by doing so.

### **Disposal packaging**

The packing is made of cardboard and corresponding marking plastic. These materials can be recycled.

## TECHNICAL DATA

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### Technical data

<b>Model</b>	<b>Q250124</b>	<b>Q400124</b>
Nominal voltage	230 V / 50 Hz	230 V / 50 Hz
Nominal output	250 W	400 W
Protection type	IPX8	IPX8
Max. supply height	6 m	8 m
Max. conveying amount	6000 l/h	7000 l/h
Max. submersion depth	7 m	7 m
Max. Grain size	5 mm	5 mm

<b>Model</b>	<b>Q550124</b>	<b>Q750124</b>
Nominal voltage	230 V / 50 Hz	230 V / 50 Hz
Nominal output	550 W	750 W
Protection type	IPX8	IPX8
Max. supply height	8.5 m	8.5 m
Max. conveying amount	11000 l/h	12500 l/h
Max. submersion depth	7 m	7 m
Max. Grain size	5 mm	5 mm

## TECHNICAL DATA

### Technical data

<b>Model</b>	<b>Q900124</b>
Nominal voltage	230 V / 50 Hz
Nominal output	900 W
Protection type	IPX8
Max. supply height	9.5 m
Max. conveying amount	15000 l/h
Max. submersion depth	7 m
Max. Grain size	5 mm



#### **Risk for equipment damage!**

**The particle size mentioned cannot be used for simple gravel or stone, but suitable for soft, variability of particles or similar things which cannot put into the water pump.**

