

# Operation Manual

## Waste Water Pump

62820, 62821



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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Send an e-mail to:

[service@wiltec.info](mailto:service@wiltec.info)

or use our contact form:

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Our postal address is:

WilTec Wildanger Technik GmbH  
Königsbenden 12  
52249 Eschweiler  
Germany

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Returns Department  
WilTec Wildanger Technik GmbH  
Königsbenden 28  
52249 Eschweiler

E-mail: **service@wiltec.info**

Tel: +49 2403 55592-0

Fax: +49 2403 55592-15



## Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

## Safety instructions

### *Operation of the pump*

- Familiarise yourself with the use of the pump, its limitations, and possible dangers.
- Make sure that the power source meets the requirements of your device.
- Disconnect the pump from the mains before carrying out maintenance work.
- Release the pressure in the system before performing maintenance on a component.
- Drain the liquid from the system before carrying out maintenance on the pump.
- Secure the discharge line before starting the pump. An unsecured discharge line may recoil and cause injury and/or damage to property.
- Before each use, check the hose for wear and damage. Make sure that all connections are properly secured.
- Occasionally check the pump and system components. Keep the pump and the system free of residues and contaminants. Carry out maintenance when necessary.
- Provide means to relieve pressure on pumps whose discharge line may be shut off or clogged.

### *Personal safety*

- Always wear safety goggles when working with or on a pump.
- Keep your work area clean, tidy, and well lit. Stow away tools and accessories when no longer using them.
- Keep bystanders away from your work area.
- Child-proof your workplace by using padlocks and master switches and removing ignition keys.
- When connecting an electrically driven pump, all electrical and safety regulations must be followed.
- The pump motor is equipped with an automatic resetting thermal protection and can restart unexpectedly.
- This device is designed for 230 V operation only. To reduce the risk of electric shock, make sure the device is connected to a properly installed safety plug. **Danger of electric shock!**
- All wiring should be done by a qualified electrician.
- Keep the mains cable away from sharp objects, hot surfaces, oil, and chemicals. Avoid bending the cable. Immediately replace or repair damaged or worn cables.
- Use cables of sufficient size to minimise voltage drop on the motor.
- Do not touch a running engine. Modern motors can develop high temperatures during operation.

### *Additional precautions*

- Have the following things checked by an expert before using the pump: earth connection, neutral line.
- Residual current circuit breakers must comply with the relevant safety regulations and work without faults.
- Electrical connections must be protected from humidity.
- If there is a risk of flooding, the electrical connections must be directed to a higher spot.
- The circulation of aggressive liquids and abrasives must be avoided absolutely.
- The waste water pump must be protected from frost and from running dry.
- The pump must be supplied via a residual current circuit breaker (RCD) with a rated fault operating current of no more than 30 mA.



- This device is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities or lack of experience and knowledge, unless they are supervised or instructed by a person responsible for their safety.
- Carefully read these instructions and the safety instructions. Keep the instructions so that you can refer to them at any time.
- Always switch off the power supply at the power source before inserting or removing the mains plug. Always pull devices out of the socket by the mains plug, do **not** pull the cable for this purpose.
- Switch off devices and disconnect them from the power source when not using them or before carrying out cleaning operations.
- Only use your device with an extension cable if this cable has been tested by a qualified technician.
- Always use your device on a power outlet with the voltage specified on the device (AC only).
- **Never** leave the device unattended while in use.
- Only use devices for their intended purpose.
- Do **not** place a device on or near a gas flame, an electrical element, a heated stove. Do not place it on top of another device.
- **Never** let the power cable hang over the edge of a table or come into contact with a hot surface.
- Never use an electrical device if the power cable or device is damaged in any way. If you suspect damage, have the device repaired by a professional.
- Only use the pump as described in the instructions. Only use accessories recommended by the manufacturer.

### Durability

- Your submersible pump is intended for the circulation of water with a maximum temperature of 35 °C.
- This pump must not be used for other liquids, especially not for fuels, cleaning liquids or other chemical products!

### Assembly

The pump can be installed as follows:

- in a fixed position with fixed piping or
- in a fixed position with flexible hose pipe.

**Note:** You should never install the pump by suspending it unsupported from the discharge line or the mains cable.

- The submersible pump must be suspended from the handle provided or placed on the bottom of the shaft.
- To ensure the proper functioning of the pump, the bottom of the shaft must be kept free of mud and dirt of all kinds.
- If the water level drops too far, the mud in the sump dries out quickly and prevents the pump from starting. Therefore, it is necessary to check the pump regularly (by performing commissioning tests).
- The float is set so that the pump can be started immediately.

**Note!** The pump should have a minimum size of 40×40×50 cm so that the float can move freely.

### Power supply

The pump is equipped with a safety plug in accordance with regulations. The pump is designed for connection to a 230 V~50 Hz safety socket. Make sure that the device is in perfect condition. Insert the plug into the socket and the pump is ready for operation.

**Important note!**

If the mains cable or the plug have been damaged by external influences, repairs to the cable are prohibited. Repairs may only be carried out by a competent electrician.

**Areas of application**

This pump is mainly used as a basement pump. When installed in a shaft, this pump provides protection against flooding. It is also used wherever water needs to be transported from one place to another, for example at home, in agriculture, horticulture, sanitary work and much more.

**Operation requirements**

After carefully reading these instructions, you can put the pump into operation. However, note the following things beforehand:

- The pump is located at the bottom of the shaft.
- Make sure that the pressure line is properly connected.
- Check that the electrical connection of 230 V and 50 Hz is present.
- Check that the socket is in good condition.
- Any fibre particles accumulated in the pump housing should be removed with a water jet.
- Make sure that neither water nor humidity can get to the main components.
- Avoid that the pump runs dry.

**Maintenance**

- This waste water pump is an approved and high-quality product that is subject to a strict final inspection.
- We recommend regular inspection and maintenance to ensure long equipment life and uninterrupted operation.

**Caution!**

- Disconnect the power plug before carrying out any maintenance work.
- If the pump must be transported frequently during operation, it should be cleaned with clear water after each use.
- In case of a stationary installation, the function of the float switch should be checked every 3 months.
- Any fibre particles accumulated in the pump casing should be removed with a water jet.
- Every 3 months the serrated edge should be cleaned of mud.
- Remove residues on the float with clear water.

**Cleaning the impeller**

If excessive sediments accumulate in the pump casing, disassemble the lower part of the pump as follows:

1. Loosen the 4 screws from the bottom of the inlet strainer.
2. Remove the suction strainer from the pump housing.
3. Clean the impeller with clean water.  
**Important!** Do not place the pump on the impeller.
4. Reassemble the pump in reverse order.



## Setting the on/off operating point

By adjusting the floating switch and its snap-in holder, the switch-on and off point of the floating switch can be set. Before operating the pump, check the following points:

- The floating switch must be installed in such a way that the level of the switch-off point and the level of the switch-on point can be reached easily and with little effort. To check this, place the pump in a container filled with water, carefully lift the float switch by hand and then lower it again. While doing this, check whether the pump switches on or off.
- Make sure that the distance between the floating switch head and the snap-in holder is not too small. Proper operation cannot be guaranteed if the gap is too small.
- When setting the floating switch, make sure that it does not touch the base before the pump switches off. **Caution! Danger of running dry!**

## Technical data

Item number		62820	62821
Energy supply		230 V, 15 Hz	
Power (W)		750	1.500
Max. flow rate ( $\frac{1}{h}$ )		16.000	22.800
Max. delivery head (m)		10	
Hose	Length (m)	20	
	Diameter (mm)	50.8	

## Troubleshooting

Error	Causes	Solution
Pump does not start	No power supply	Check the power supply.
	Floating switch does not switch	Move the floating switch to a higher position.
No flow	Inlet strainer blocked	Clean the inlet strainer with a jet of water.
	Pressure air hose bent	Readjust the hose.
Pump does not switch off	Float cannot sink	Place the pump correctly on the shaft bottom.
Insufficient flow	Inlet strainer blocked	Clean the inlet strainer.
	Reduced pump performance due to dirty water	Clean the pump and replace worn parts.
The pump switches off after a short running time	Thermal switch stops pump due to dirty water	Pull out the mains plug. Clean the pump and impeller.
	Water too hot; thermal switch stops pump	Make sure that the maximum water temperature does not exceed 35 °C.

## Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

Address:  
WiTec Wildanger Technik GmbH  
Königsbenden 12 / 28  
D-52249 Eschweiler

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