

Instruction Manual

Waste Water Pump

51530–51536, 51542–51544



Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!

Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.



The information contained in this document may alter at any time without prior notice. No part of this document may be copied or otherwise duplicated without prior written consent. All rights reserved. WilTec Wildanger Technik GmbH cannot be held liable for any possible mistakes in this operating manual, nor in the diagrams and illustrations shown.

Although WilTec Wildanger Technik GmbH has made every possible effort to ensure that this operating manual is complete, accurate, and up-to-date, errors cannot be ruled out entirely.

If you have found an error or wish to suggest an improvement, we look forward to hearing from you. Send us an e-mail to:

service@wiltec.info

or use our contact form:

<https://www.wiltec.de/contacts/>

The most recent version of this manual in several languages can be found in our online shop:

<https://www.wiltec.de/docsearch>

Our postal address is:

WilTec Wildanger Technik GmbH
Königsbenden 12
52249 Eschweiler Germany

To return your goods for exchange, repair, or other purposes, please use the following address. Attention! To allow for a trouble-free complaint or return, it is important to contact our customer service team before returning your goods.

Retourenabteilung
WilTec Wildanger Technik GmbH
Königsbenden 28
52249 Eschweiler Germany

E-mail: **service@wiltec.info**
Phone: +49 2403 55592-0
Fax: (+49 2403 55592-15)



Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it.

Keep these operation instructions in a safe place.

Safety notes for the pump

General remarks

- Know the application of the pump and ensure to be familiar with the limitations and potential dangers.
- Make sure that the electricity source corresponds to the requirements of the device.
- Disconnect the pump from the electricity supply before carrying out any maintenance work.
- Release the pressure from the system before maintaining a part.
- Release the liquid from the system before maintaining the pump.
- Secure the pressure line before starting the pump. An unsecured pressure line can retaliate and thus lead to injuries and/or damages.
- Check the hose for wear and damage before every use. Make sure that all connectors are attached and secure.
- Occasionally check the pump and the system components. Keep the pump and the system free of residues and foreign bodies. If necessary, carry out a routine maintenance.
- Keep a remedy for pressure relief near pumps, the pressure lines of which can be closed off or clogged.

Personal safety

- Always wear protective glasses when working with the pump.
- Keep your working area clean, tidy, and well illuminated. Store tools and equipment when the pump is not in use.
- Keep bystanders away from your working area.
- Make sure to make the working area safe for children by using padlocks and main switches and by removing ignition keys.
- When connecting an electrically powered pump, all electrical and safety instructions need to be regarded.
- The pump motor is equipped with an automatic resetting thermal protection and can unexpectedly re-start.
- Danger of electric shock: This device is designed to only be operated with 230 V. To reduce the risk of electric shock, ensure that the pump is connected to a safety plug properly installed.
- The entire wiring should be done by a qualified technician.
- Protect the power cable from sharp objects, hot surfaces, oil, and chemicals. Avoid bending the cable. Damaged or worn cables need to be replaced immediately.
- Use cables with a sufficient size to minimise a voltage drop to the motor.
- Do not touch a running motor. Modern motors can reach very high temperatures when running.

Additional safety precautions

Have the following checked by an expert before using the pump:

- Ground connection
- Neutral conductor
- Fault-current circuit breaker needs to comply with the safety regulations and needs to work faultlessly.
- The electrical connections need to be protected from humidity.
- When a danger of flooding occurs, the electrical connections need to be placed in a high area.



- The circulation of aggressive liquids as well as the circulation of abrasive substances is to be avoided.
- The motorised waste water pump needs to be protected from frost and dry-running.
- The pump must be supplied with a nominal fault current of no more than 30 mA via a residual current circuit breaker (FI).
- This device is not intended to be used by persons (including children) with reduced physical or mental abilities or with a lack of experience and knowledge, unless they be supervised and/or instructed by a person responsible for their safety.
- Carefully read the instructions and the safety instructions. Keep this manual in a safe place so that you can refer to it at any time.
- Always switch off the power supply at the power source before plugging the plug in or out. To pull the plug out, do **not** pull on the power cable, but only on the plug itself.
- Switch off the devices and disconnect them from the power supply when they are not in use or before they are maintained.
- Only use the device with an extension cable if this has been checked by a qualified technician.
- Always connect your device to a socket whose voltage matches the voltage marked on the device (only AC).
- **Never** leave a device in operation unattended.
- Only use the device according to the intended use defined in this manual.
- Do **not** place a device on an ignited flame, an electric element, a heated oven, or near them. Do **not** place it on another device.
- **Never** let the power cable hang over the edge of a table or come into contact with hot surfaces.
- **Never** use an electric device if its power cable or the device itself is damaged. If you think that there is a damage, have the device repaired by a qualified person.
- Only use the device according to the intended use defined in this manual. Only use accessories recommended by the manufacturer.

Resistance

- The immersible pump is suited for a circulation of water with a maximal temperature of 35 °C.
- The pump must not be used to pump other liquids, especially fuels, cleaning agents, or other chemical products.

Assembly

The pump is installed the following way:

- in stationary position with a fixed pipeline or
- in stationary position with a flexible pipe.

Note: The pump should never be installed in a safe-supporting manner, hanging on its pressure line or the power cable.

- The submersible motor pump needs to be hung up by the appropriate handle or placed on the floor of the shaft.
- To ensure the impeccable functioning of the pump, the shaft floor needs to be kept free of mud and dirt of any kind.
- When the water level has sunk too low, the mud in the shaft dries fast and stops the pump from starting. It is therefore necessary to regularly check the pump (by performing tests before operation).
- The float switch is adjusted to allow the pump to start immediately.

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



Power supply

The pump is equipped with a proper protective contact plug. The pump is meant to be connected to a 220/230 V~50 Hz safety socket. Ensure that the device is in perfect condition. Plug in the plug, the pump is operational.

Important note! If the main cable or the socket has been damaged due to external influences, repairs on the cable are prohibited. Repairs may only be carried out by a qualified technician.

Range of application

This pump is mainly used as a cellar pump. When placing it into a shaft, the pump provides protection from flooding. Additionally, the pump can be used, where water needs to be transported from one spot to another, e.g., at home, in agriculture, in gardening, for sanitary work and so forth.

Work settings

After thoroughly reading the operating manual, the pump can be put into operation. Please note the following in advance:

- The pump is on the floor of the shaft.
- Ensure that the pressure line is attached properly.
- Check if the electrical connection has 230 V and 50 Hz. All fibre particles possibly collected in the pump casing should be removed with a water stream.
- Check if the socket is in a good condition.
- Make sure that water and humidity never reach the main components.
- Avoid any running dry of the pump.

Maintenance instructions

- This waste water pump is an approved, maintenance-free, high-quality product subject to a strict final inspection.
- We recommend a regular inspection and maintenance to ensure a longer lifespan of the device and an interruption-free operation.

Important instructions!

- Pull out the plug before maintaining.
- In case the pump should be transported frequently, it needs to be cleaned with clear water after every use.
- When installing the pump stationary, the function of the floater should be checked every 3 months.
- All fibre particles possibly collected in the pump casing should be removed with a water stream.
- Every 3 months, the shaft bottom should be freed from mud.
- Remove the residues on the float switch with clear water.

Cleaning the drive wheel

If there are excessive residues collected in the pump casing, the bottom part of the pump needs to be demounted the following:

1. Loosen the 4 screws on the bottom of the inlet cage.
2. Remove the suction cage from the pump casing.
3. Clean the drive wheel with clear water.

Important! The pump must not be placed on the drive wheel.



4. Build the pump back together in the reversed order.

Adjusting the on/off of the operating point

The on/off switching point and the shut-off point of the floating switch can be adjusted via the floating switch and its snap holder. Before putting the pump into operation, check the following:

- The float switch needs to be installed so that the filling level of the shut-off point and the filling level of the switch-on point can be activated with little effort. To check this, place the pump into a container filled with water, carefully lift the float switch by hand and lower it again. Then check if the pump switches on and off.
- Ensure that the distance between the float switch head and the snap holder is not too small. A proper operation cannot be guaranteed if the gap is too small.
- When adjusting the float switch, ensure that it does not touch the basis before switching the pump off. **Attention!** Danger of dry-running.

Troubleshooting

Problem	Cause	Solution
Pump does not start	No power supply	Check power supply.
	Float switch does not switch	Place float switch in a higher position.
No flow	Inlet filter clogged	Clean inlet filter with water stream.
	Compressed air hose bent	Adjust hose.
Pump does not switch off	Float switch cannot sink	Place pump properly on the shaft floor.
Insufficient flow	Inlet filter clogged	Clean inlet filter.
	Reduced pumping performance due to dirty water or grinding water	Clean pump and replace worn parts.
The pump switches itself off after short running period	Thermal switch stops pump due to waste water.	Pull power plug. Clean pump and shaft.
	Water too hot, thermal switch stops pump	Ensure that the maximal water temperature does not exceed 35 °C.



Technical specifications

	51530	51531	51532	51533	51534
Voltage (V)	230				
Frequency (Hz)	50				
Power consumption (W)	250	400	550	900	400
Max. flow rate (ℓ/h)	5000	7000	12000	14000	7500
Max. lifting height (m)	6	7.5	9	11.5	5
Max. immersion depth (m)	5	7			5
Max. water temperature (°C)	35				
Max. ø of foreign bodies (mm)	5				35

	51535	51536	51542	51543	51544
Voltage (V)	230				
Frequency (Hz)	50				
Power consumption (W)	750	1100	400	750	1100
Max. flow rate (ℓ/h)	13000	15000	7500	13000	15000
Max. lifting height (m)	9	11	5	9	11
Max. immersion depth (m)	7		5	7	
Max. water temperature (°C)	35				
Max. ø of foreign bodies (mm)	35				

Regulations for waste disposal

The Waste Electrical and Electronic Equipment Directive (WEEE Directive, 2012/19/EU) of the EU was implemented in the German law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE directive are labelled with the symbol of a crossed-out wheeled rubbish bin. This symbol indicates that this electric device must not be disposed of with the domestic waste.

WilTec Technik GmbH is registered with the German registration authority EAR (Stiftung Elektro-Altgeräte Register) under the WEEE-registration number DE45283704.

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

The symbol on the packaging or the product itself indicates that this product must not be treated as normal domestic waste but must be disposed of at a recycling collection station for electrical and electronic waste.

By disposing of this product correctly, you contribute to the protection of the environment and the health of your fellow people. Inappropriate disposal threatens the environment and health.



Material recycling helps to reduce the consumption of raw materials.

Additional information about the recycling of this product can be provided by your local commune, the municipal waste disposal facilities, or the store where you purchased the product.

Address:
WilTec Wildanger Technik GmbH
Königsbenden 12 / 28
52249 Eschweiler Germany

Important Note:

Reproduction and any commercial use (of parts) of this operating manual, requires a written permission of WilTec Wildanger Technik GmbH.