Operation Manual

Suction Pump

51548–51551

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.

The information contained in this document may alter at any time without previous notice. It is prohibited to copy or spread any parts of this document in any way without prior written allowance. All rights reserved.
The WilTec Wildanger Technik GmbH cannot be held accountable for any possible mistakes in this operating manual, nor in the diagrams and figures shown.
Even though, the WilTec Wildanger Technik GmbH has undergone biggest possible efforts to ensure that the operating manual is complete, faultless, and up to date, mistakes cannot be entirely avoided.
If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

Send 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 various languages can be found in our online shop via:

https://www.wiltec.de/docsearch

Our postal address is:

WilTec Wildanger Technik GmbH
Königsbenden 12
52249 Eschweiler
Germany

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

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

CAUTION:
This device can only be used in the vicinity of bodies of standing water, garden ponds, or swimming ponds if connected to a fault current protection-switch with a triggering nominal current up to 30 mA (according to VDE 0100 Article 702 and 738).

The device is not suitable for usage in swimming pools, paddling pools, and other bodies of water, which might be used by people or animals during operation. The device must not be used while sentient beings are within the hazard area. In case of doubt contact a professional electrician.

This device can only be used by children or individuals with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, if they have received instructions concerning the use of the appliance from and are being supervised by a person familiar with the product and responsible for their safety. Children should be always supervised to ensure that they do not play with it.

ATTENTION:

- Run a visual inspection of the device before every use. Do not use the device, if safety appliances are damaged or show signs of wear. Never ignore safety regulations.
- Only use the device for its intended purpose stated in this instruction manual.
- You are responsible for the safety within your working environment.
- The cable or plug must not be repaired in case of being visibly damaged and instead must be replaced with a new one by a qualified electrician.
- The voltage indicated on the type plate of the device corresponds to 230 V alternating voltage and must match the mains voltage on site.
- Never pull, lift, carry, or suspend the device by its power cable.
- Always ensure that the power plug and socket-outlet are located within a flood-proof area and are protected from moisture
- Always disconnect the device from the mains supply before performing repairs or maintenance work.
- Ensure that the device is not directly hit by streams of water.
- The owner of the device is responsible for its proper installation in accordance with the local installation and safety regulations. (Eventually contact a qualified electrician)
- The user is responsible for taking the appropriate measures (such as the installation of alarm systems or standby pumps) to avoid consequential damage caused by flooding of rooms due to a malfunction of the device.
- The pump must never run dry or be used while its inlet port is closed completely. In case of the device running dry, the manufacturer warranty will be voided.
- The device must not be connected to systems supplying drinking water.
- The device must not be used to operate swimming pools.

WARNING:
Carefully read all the safety guidelines and instructions found in this manual.
Failure to comply with the rules safety rules and regulations may lead to electric shock, fire and/or serious damage and injuries. Always make sure to properly store this instruction manual for future reference.

Stability

- The maximum temperature of the conveyed liquid should not exceed +35 °C during permanent operation.
- The conveyance of flammable, gassing, or explosive liquids is forbidden.
- The conveyance of aggressive fluids (such as acids and bases) as well as abrasive liquids (such as sand) must be avoided to prevent the pump from being damaged.
- To prevent the pump from running dry, we recommend the use of one of our automatic pump control systems.

Intended use

Fields of application

- Watering green spaces, vegetable patches and gardens
- Operation of lawn sprinklers.
- Withdrawal of water from ponds, fresh water streams, wells, rain barrels and reservoirs, if used in combination with a pre-filter.

Pumping media

Only fresh water, rain water or mild suds may be pumped with this device.

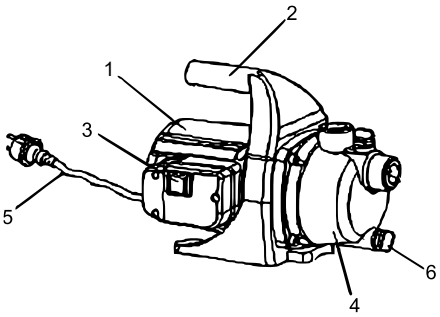
Technical data

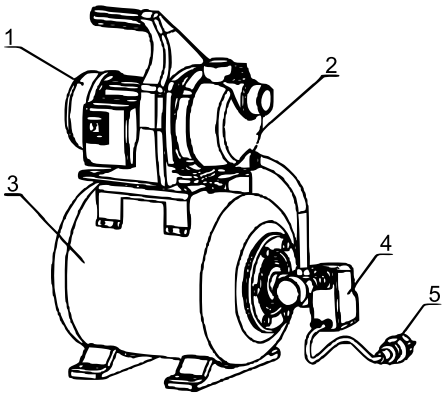
Article number	**51548/51550**	**51549/51551**
Energy supply	220–240 V / 50 Hz	
Power input (W)	600	1200
Max. lifting head (m)	35	48
Max. flow rate (l/h)	2800	3800
Max. suction lift (m)	7	8
Noise level (dB (A))	81	84

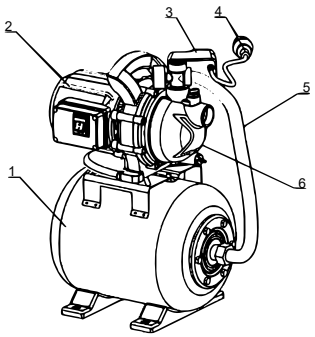
Operation instructions

We generally recommend the use of a pre-filter as well as a suction set consisting of a suction hose, suction strainer, and check valve to optimise operation and to prevent the device from taking damage from stones and other foreign substances.

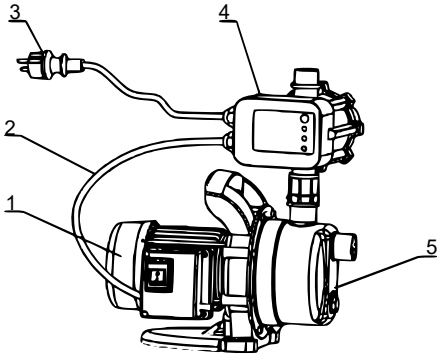
Layout

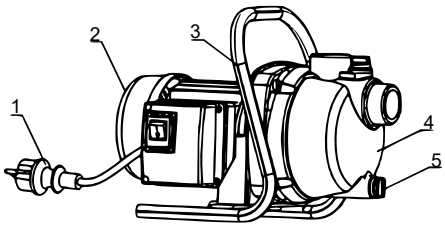






№	Name	№	Name	№	Name
1	Motor cover	1	Motor cover	1	Pressure tank
2	Handle	2	Pump head	2	Motor cover
3	Switch	3	Pressure tank	3	Pressure switch
4	Pump head	4	Pressure switch	4	Cable
5	Cable	5	Cable	5	Pump head
6	Valve cover				





№	Name	№	Name
1	Motor cover	1	Cable
2	Connection cable	2	Motor cover
3	Cable	3	Handle
4	Pressure switch	4	Pump head
5	Pump head	5	Valve cover

Electrical connection

- The electrical connection takes place via an isolated ground receptacle with 230 V ~ 50 Hz. fuse protection and at least 10 A.
- The device is turned on/off by means of the ON-/OFF-switch. The indicator light of the switch

glows, if the device is turned on and the motor has been started.
- The motor is protected against overloading or jamming by means of a built-in motor protection system. In case of overheating, the overheat control automatically turns the pump off and re-starts it once the motor has cooled down again.

Intake tube

1. Either directly connect a suction hose (a spiral reinforced plastic hose with a diameter of at least ¾″) to the pump or connect a threaded nipple to the suction connection (with 1″ internal thread) of the pump.
2. The suction hose used should be equipped with a suction valve. In case the suction valve cannot be used, a check valve should be installed within the suction line.
3. Place the suction line in a way that allows the pump to be positioned on a higher level than the point of water withdrawal. Avoid placing the suction line on a higher level than the pump as this will lead to the creation of air pockets in the suction line that will slow down and impede the suction process.
4. The suction and the pressure line must be installed in a way that ensures that they will not exert any mechanical pressure on the pump.
5. The suction valve should be placed deep enough to ensure that a decreasing water level will not cause the pump to run dry.
6. A leaky suction line prevents the suction of water due to air intake.
7. Avoid sucking in foreign particles (such as sand) and install a pre-filter if necessary.

Pressure line connection

1. The pressure line, which should at least possess a diameter of ¾″, must either be connected directly to the pressure line connector (1″ internal thread) of the pump or via a threaded nipple.
2. A smaller pressure line, with a diameter of ½″, can be attached with the help of the respective couplings, but this will lead to a reduction of the pump output.
3. During the suction process the shut-off devices located within the pressure line, such as valves and spray nozzles, must be opened completely to allow the air within the suction line to escape freely.

Commissioning

1. Place the pump on an even and sturdy surface, whose temperature does not exceed 40 °C. Carefully mount the device onto the surface with the help of screws and thereby make sure to install it in a horizontal position to allow for it to work accurately.
2. Install the intake tube in a way that allows it to be used immediately. The suction hose should thereby not be narrower than the intake connection.
3. Connect the pump to the power supply.
4. Use the pressure connector to fill water into the pump.
5. All the stop valves must be completely opened during the suction process to ensure that the air within the intake tube can escape.
6. Depending on the suction head as well as the amount of air stuck in the intake tube, the suction process might take between 0.5 and 5 min. In case of the process taking longer, add further water to the pump.
7. If the pump is disconnected after usage, make sure to refill it with water before using it again to prevent it from running dry.

Service notes

- Even though this pump is a low-maintenance device, we advise to perform periodic maintenances to prolong the longevity of the pump.
- Attention! The pump must be disconnected from the power supply before any kind of maintenance work is performed.

- Before the pump is being stored or left unused for longer periods of time, it must be rinsed with water and then emptied completely and stored within a dry environment.
- In case of risk of frost, the pump must be emptied completely to avoid that it or its parts are damaged.
- Check the flawless functionality of the rotor by turning the device on for a few seconds after longer periods of idleness.
- In case of the pump being blocked, connect the pressure line to the water line and remove the suction hose. Then open the water line and repeatedly start the pump for approximately 2 s. In most cases this should suffice in order remove clogging.

Troubleshooting

The motor does not start

Causes	Solutions
Line voltage is missing	Check the power supply.
Pump impeller jams – thermal controller has shut the device down	Dismantle and clean pump.

Pump does not suck water in

Causes	Solutions
Suction valve is not inside the water	Place the suction valve into the water.
No water inside the pump station	Fill water into pump intake nozzle.
Air inside the suction line	Check suction line for leakages.
Suction valve leaks	Clean suction valve.
Suction strainer is clogged	Clean suction strainer.
Max. suction head is exceeded	Check suction head.

Insufficient flow rate

Causes	Solutions
Suction head is too high	Check suction head.
Suction strainer is soiled	Clean suction strainer.
Water level decreases rapidly	Put suction valve deeper into water.
Pump capacity is reduced by pollutants	Clean pump and replace worn parts.

Pump is shut down by thermal controller

Causes	Solutions
Motor overloads – High friction due to foreign matter	Dismantle and clean pump, prevent suction of foreign matter with a filter.

Attention! The pump must not run dry!

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

Important notice: