

Operation Manual

Domestic Waterworks with Pressure Switch and Vessel

61540, 61541



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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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:

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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.

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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.

Intended usage

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

Unpacking

After opening the package, please ensure that the products are complete. 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 as well.

Safety regulations



Failure to observe the following safety instructions can lead to serious and even fatal injuries! To operate the device safely, users must read and understand the instructions carefully before using it for the first time.

- Follow all safety instructions. Otherwise, you and others could suffer injuries.
- Retain the application and safety information for future use. The device may only be used if it is functioning normally.
- Only use the device in accordance with the safety instructions and technical requirements specified in the manual.
- The semi-solid and solid form of the devices is designed so that they can be used in the house and in the garden, e.g., for spray water and irrigation.
- Use the device only within its performance range. Do not use the device if the switch does not turn on and off.
- The device must not be used for supplying water or for transporting drinking water.
- Do not use the device in a room that contains flammable or combustible liquids or gases.
- If components that have not been tested or approved by the manufacturer are used improperly, there is a risk that the device may suffer unforeseen damage.
- Any application that deviates from the intended use specified in the instructions is considered improper. The manufacturer is not responsible for any problems caused by this and is not within the manufacturer's scope of liability.
- Please ensure that the closed device cannot accidentally start up.
- The device must be connected to a properly installed and earthed socket.
- There must be a safety line that interrupts the current if the fault current exceeds 30 mA.
- Make sure that the power supply meets the requirements for connecting the device.
- Do not kink, pull, or pinch the power cord; otherwise, the cord may break.
- Check the plug and power cord before use. If the power cord is damaged, unplug it immediately. Do not use the device if its power line is damaged.
- If the device is not used, switch off the device and pull the plug.



Commissioning

- If you want to permanently install the device, screw it onto the foundation support with four screws.
- If the device is used for the garden pond or for a swimming pool in the garden, it must be particularly stable and straight so that it cannot overflow, tip over or fall to the ground.
- Set up the device in a well-ventilated area to avoid the effects of weather. If it is operated inside a room, make sure that the floor is equipped with a drainage channel or is protected against leakage.
- Please check the suction hose before commissioning and make sure that it is airtight. If air is sucked in, the device can leak, which can cause it to fail.



The suction line must be laid in such a way that no mechanical forces or stresses can act on it. If dirt builds up in the pipe, install a filter for cleaning and protection.

Caution: We recommend installing a non-return valve to prevent the system from shutting down due to dry running.

- To avoid leaks, all connections of the suction line must be sealed, e.g., with hemp rope or sealing tape.
- Seal the connection of the metal pipe thread with sealing tape.
- Have all components of the suction line installed by a specialist.
- The inside diameter of the suction line must be at least 25 mm; the suction line must not kink and must be suitable for suction.
- Since the transport capacity decreases with increasing pipe length, the suction line should be as short as possible.
- Lay the suction line with a steady rise to avoid the formation of bubbles.
- Make sure that enough water is available for the suction line. The connection of the suction hose must always be completely immersed in the water.
- All components of the pressure line must be pressure-resistant and may only be installed by specialists.

Operation

The devices can be permanently connected to the pipeline system (e.g., internal household water supply). In this case, the device must be connected to the pipe system with the highly flexible hose to avoid vibrations.



Risk of injury! If the components cannot withstand the pressure or if the installation is incorrect, the pressure line may flake off during operation. Danger from leaking liquid!
Risk of electric shock! Do not operate the device in a damp environment.

Attention: The device is only connected to the municipal water supply. A toilet or washing machine may not be used to supply drinking water!

The device may only be operated if the following points are observed:

- The device may only be connected to an earthed socket. This must be installed, grounded and checked by a qualified electrician.
- The power supply and the fuse protection must correspond to the information on the nameplate and the technical data.
- The device must be equipped with a protective device with a triggering fault current of less than 30 mA if the device is operated in a swimming pool, in a garden or in a comparable location.
- In the case of operation outdoors, the electrical connection must be splash-proof. The device must not be operated in water.



- The extension cable must have a sufficient conductor cross-section. If an extension cable that is wound on a cable drum is used, it must be completely unwound from the cable drum.



Risk of equipment damage! The pump must be primed with water when the device is reconnected. A device running dry can be damaged if the dry run is not recognized and rectified immediately.

Filling and suction

61540

Please ensure that there is sufficient pressure if the pump has recently been completely emptied and restarted.

1. Pull out the power plug.
2. Open the pressure line to completely drain the water.
3. Loosen the plastic valve on the front of the pump head. The air control valve is located on the back of the plastic valve.
4. Connect the compressor hose to the air control valve.
5. Wait until the filling pressure corresponds to the technical specifications.
6. Reconnect the devices, check their function and increase the pre-charge pressure.
7. Clean the filter after use.

61541

1. Unscrew the pump cover.
2. The pump must be completely filled with water.
3. Refit the filter and screw on the pump cover and the sealing elements.
4. If necessary, shorten the suction time by also filling the suction hose with water.
5. Open the pressure line (tap or nozzle) so that the air can escape during the suction process.
6. Switch on the device.
7. Switch off the device when the water is discharged evenly.
8. Clean the filter after use.

Maintenance

1. Pull the power plug before maintenance work.
2. The user may only carry out the maintenance and repair work specified in the operating instructions. Other defects may only be remedied by specialists.
3. Use only original parts. Only these spare parts have been specially developed and manufactured for the device. Using other spare parts will void the warranty. You or your surroundings can also be endangered.



Risk of electric shock! Please disconnect the power supply before servicing the device.
Caution: All seals must be replaced when components are removed.

Errors and solutions

- In most cases, the user can easily rectify problems himself. Before contacting us, please go through the table below. This can save you and us a lot of work and possible costs.
- If you cannot correct the error, please contact your dealer immediately. Please note that repair work not carried out by an expert will invalidate the warranty and result in a claim for damages and additional costs.



61540

Error	Cause	Solution
The pump does not start or the pump suddenly stops during operation.	Interruption/failure of the power supply	Check fuse and electrical connections; switch on external power supply.
	Defective power line or plug	Contact your dealer/service partner.
	Mechanical seal sucked in	If the pump is idle for a longer period, switch off the pump and pull out the mains plug; otherwise, the mechanical seal can be damaged. Let the pump cool down and turn the pump shaft at the end with a flat-blade screwdriver. When the shaft turns again, switch the pump on again.
	Shutdown by pressure switch due to pressure in the pipeline	Open water tap; then the pressure switch turns on again automatically after the pressure has dropped.
	Water tap too high for pressure value of pressure switch	If necessary, change the pressure set-point of the pressure switch.
	Other error	Have the pump checked by a specialist.
	Insufficient/non-existent flow rate (or self-priming error)	Reduced pump suction power due to dirty water or waste water with particles
Clogged hose/line/filter screen		Remove the blockage from the line, clean the filter screen.
Damaged hose/line system		Replace line.
The water inlet is too soft. As a result, the water inlet cannot draw in water due to the reduction in suction power during pump operation.		Replace the threaded anti-vacuum hose or pressure-proof rigid tube.
Air inside the pump head, pump is not completely filled with water.		Fill the pump head with water.
Water inlet not deep enough in the water		Check whether there is enough water; then immerse the water inlet more than 10 cm deep in the water.
Loose suction line seal		Replace the seal and ensure that it is completely tight.
The pump is switched off after a short time	Power interruption through overheating protection because of severe clogging of the pipeline or pump	Remove blockages; switch on the pump and fill in the water when it has cooled down completely.
	Power interruption by overheating protection due to excessive ambient or water temperature	Ensure that the water and ambient temperature is below 35 °C; then switch on and let the water to be pumped.
	Power interruption by pressure switch due to the pressure in the pipeline	Open water tap; then the pressure switch starts again automatically after the pressure has been lowered.
	Blockage due to damaged impeller	Have the device checked by a specialist.



Pump starts several times in quick succession	Leak in pipes or connections	Check pipes and connections, perform correct installation again to avoid leaks.
	Suction channel not installed with check valve	Install check valve on water inlet.
	Too low air pressure in the pressure tank	Check the pressure tank to see which air pressure is recommended; Increase pressure according to the recommended value.
	Inner container of the pressure tank sucked in	The inner container is sucked in when internal pressure escapes from the pressure container over a longer period as long as the pump is idle for a longer period of time. In this case, let the water flow again and slowly close the water valve. As a result, the sucked-in part is opened after several operations, and normal operation will soon be restored.

61541

Error	Cause	Solution
The pump does not start.	No supply voltage	Check the power cable, plug, socket, and fuse.
	Motor overheating, usually caused by excessive fluid temperature	Find out and solve the reasons for the overheating.
	Blockage by foreign bodies	Clean filter.
	Switch triggered by residual current circuit	Switch on breaker; if it is triggered again, contact your dealer or service partner.
	Motor failure	Contact your dealer or service partner.
Water pump does not suck in water regardless of operation	Blockage of the suction connection	Clear the blockage.
	Air lock	Check the air tightness of the connections.
	Pump clogged by foreign bodies	Clean filter.
Delivery head too low	Delivery head too high	Note maximum delivery head.
	Pressure line diameter too small	Use pressure line with larger diameter.
	Pressure line clogged	Clear the clog.
	Suction connection blocked	Clean suction connection.
	Pressure line kinked	Straighten pressure line.
	Pressure line leaking	Seal pressure line, screw the threaded connection tightly.
Pump makes noises during operation.	Air sucked in by the pump.	Make sure that there is enough liquid; check if the connections are airtight.



Technical specifications

61540

Model	JGP90022C	JGP110022C	JGP130022C
Nominal voltage (V)	230		
Nominal frequency (Hz)	50		
Nominal power (W)	900	1100	1300
Protection type	IPX4		
Max. delivery head (m)	40	45	48
Max. suction lift (m)	8		
Max. flow rate (l/h)	3600	4200	4500
Operation pressure (bar)	1.5-3.0		

61541

Model	JGP90022	JGP110022	JGP130022
Nominal voltage (V)	230		
Nominal frequency (Hz)	50		
Nominal power (W)	900	1100	1300
Protection type	IPX4		
Max. delivery head (m)	40	45	48
Max. suction lift (m)	8		
Max. flow rate (l/h)	3600	4200	4500
Operation pressure (bar)	4.0	4.5	4.8

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.

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