

Operation Manual

Garden Pump

63037, 63038



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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or use our contact form:

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

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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.

Safety instructions

The instructions with the following symbols must be followed very strictly:

 Electricity!	Failure to follow instructions marked with this symbol result in an electric shock.
 Danger!	Failure to follow instructions marked with this symbol result in property damage or injuries.
 Note!	Failure to follow information provided with this symbol result in damage to the pump or its attachments.

Read the instruction manual carefully before using the pump. Damage occurring due to non-compliance with safety regulations is not covered by the guarantee.

General description

Notes!

- Each pump is carefully checked at the factory when being assembled and packed. However, check the pump again for transport damage. If you discover such damage, immediately contact the seller.
- This pump must not be operated in a highly flammable or explosive environment.
- Make sure that the pump cannot run dry.
- This pump is not suitable for continuous operation (e.g., cyclical operation of swimming pond filters or in industrial devices).
- This pump is only suitable for pumping clean water. Other liquids, such as paints containing oil, etc., would damage it. It is not suitable for pumping abrasive substances, clay, silage effluents, slurry, or other viscous liquids. If the liquid to be pumped contains corrosive components, the materials of the pump will be affected. The pump may only be used to pump normal, clean water, but the transport of drinking water is expressly prohibited.
- The pump is splash-proof, should be installed in a well-ventilated and dry place and protected against water vapour and flooding. The ambient temperature must not exceed 40 °C. The pump must not be exposed to rain during use or storage; do not store or use it in a damp room or well.

Danger!

- No liability is accepted for damage caused by failure to observe the instructions and information contained in this manual. This applies to attachments, too.
- Persons not familiar with the correct use of the pump are not allowed to start up the pump. Children and adolescents under 16 years of age must not operate the pump and must be kept away from the pump when it is connected to the power supply.

Application

Electric pumps can be used in private gardens or in the household, e.g., as a fixed water supply unit for washing machines, sinks, or showers.



 **Danger!**

- If the pump is connected to a sink or shower, it must not be used for drinking water at the same time.
- This pump may only be used in a circuit equipped with a residual current circuit breaker (FI switch, 30 mA) in accordance with VDE 0100–702 and 0100–738. When used near swimming ponds, garden ponds, etc., the pump must be installed in a fixed or flood-proof manner and secured against falling over. The pump must not be operated if there are people or animals in the water. When setting up the pump, make sure that the electrical connections are earthed.

Technical specifications

Item number	Power (W)	Max. pumping head (m)	Max. flow rate (l/h)	Max. suction height (m)
63037	600	38	2800	7
63038	800		3000	

Electrical connections

- Thoroughly inspect the pump, especially its power cord and plug, before setting it up and connecting it to make sure that it is undamaged. A defective pump must not be put into operation, but must first be repaired.
- Earthing: The power cable is equipped with two earth contacts. The electrical plug connections and the socket must be earthed.

 **Notes!**

- Make sure that the voltage and frequency specified on the type plate of the pump correspond to the existing network.
- If the plug of the power cord is damaged, the pump is not guaranteed. The cable must be replaced by another original cable. If an extension cable is defective, only this must be replaced. The cross-section of the extension cable used to operate the pump must at least correspond to that of the power cable of the pump.

Setup and installation

- Before starting up the pump, attach the suction and pressure lines to the pump. The suction line sucks water from the pond into the pump through the suction connection on the side. It must always be completely tight, otherwise the suction will be difficult or impossible.
- To keep the suction line tight, the plastic screw connections should be sealed with sealing tape and the steel or copper screw connections with hemp fibre or sealing tape.
- A non-return valve should be connected to the suction line; otherwise, the pressure through the suction line would decrease when the pump is switched off, which would lead to the pump uncontrolled and frequent switching on and off, if it is used e.g., for water supply in the household or to operate an automatic lawn sprinkler. Basically, it is advisable to connect a non-return valve directly between the side inlet of the pump and the suction line so that the suction line does not run empty after switching off and does not lose its pressure. Otherwise, the suction line could be damaged. In addition, a suction valve can be attached at the beginning of the suction line, but this is not necessary.
- The pump sucks in water by itself, but must be pre-filled when used for the first time. All models are filled with water via the filling connection on the housing. To do this, open the screw cap and fill it with water until no more air escapes from the housing.
- If air bubbles appear while pre-filling the pump, gently shake the case to make the air bubbles disappear, and then continue filling. Repeat this several times until pre-fill water level is exactly



below the filling connection. Then screw the cover back on, but not too tightly, otherwise the pump housing or the hose screw connection would be damaged.

- The pump must not idle for more than 7 min. To reduce the idle time, it is advisable to completely fill the suction line and pre-filter with water before starting up the pump.
- The maximum suction height of the pump is 7 m; in other words, the vertical distance between the pump and the water surface of the pond must not exceed 7 m. The horizontal section of the suction line must be slightly inclined from the water source to the pump, otherwise air would be sucked in and the pump could not function as intended.
- Do not start the pump until all pipe connections have been made and the pump is filled with water. When sucking in, the drain connection must be open so that the air present in the line system can escape and the liquid pressure can build up. If no pressure builds up even after the priming time specified above, the pump must be switched off and the error eliminated according to the troubleshooting table.
- We would like to point out that the above data are maximum values for the pump lines that can be reduced if the suction height is exceeded and additional attachments are connected (e.g., pressure line, elbows, pre-filters).
- Pump: Pumps may only be connected to the house water pipe with reinforced hoses. Usual garden hoses may not be used for this; they would soon crack or break due to wear and tear, continuous pressure, and material fatigue.
- Pre-filter: The suction line must be equipped with a filter preventing the pump from being damaged by penetrating clay, sludge, or other abrasive substances from the pumped liquid. No filter may be installed in the pressure line.
- Pressure line: The water is pumped from the pump to the outlet (water tap or outlet opening) via the pressure line. The connection is located on the top of the pump housing. To keep friction and pressure losses as low as possible, the pipe diameter must be at least 3/4".



Electricity! Never connect the power cord to the power supply while setting up the pump!



Danger! The user of the pump must take suitable measures (e.g., installation of an alarm system, a reserve pump, a water container) to prevent damage caused by a malfunction of the pump or its attachments because of over-pumping. In this case, the manufacturer is not liable for any resulting damage.

Maintenance

- The boiler pressure of the pumps used in the domestic water supply must always be checked regularly (2–3 times a year) so that the operational capability of the pump is maintained.
- The boiler pressure is measured on the pressure gauge opposite the line and should be 1.5 bar. To measure the boiler pressure, disconnect the pump from the power supply and let the water run out of the pressure boiler.
- If the pressure in the boiler is not sufficient, increase it to the above-mentioned value; you may use a compressor for that. Insufficient pressure will cause the domestic water supply pump to malfunction and cause the rubber diaphragm to wear out.
- To safeguard the warranty claims, damage caused by insufficient boiler pressure must be excluded.



Electricity! The pump must be disconnected from the power supply before maintenance work or troubleshooting. Only qualified technicians are allowed to replace damaged cables.



Danger! The pump may only be repaired by a specialist workshop using original spare parts. If other spare parts are used, the warranty expires.

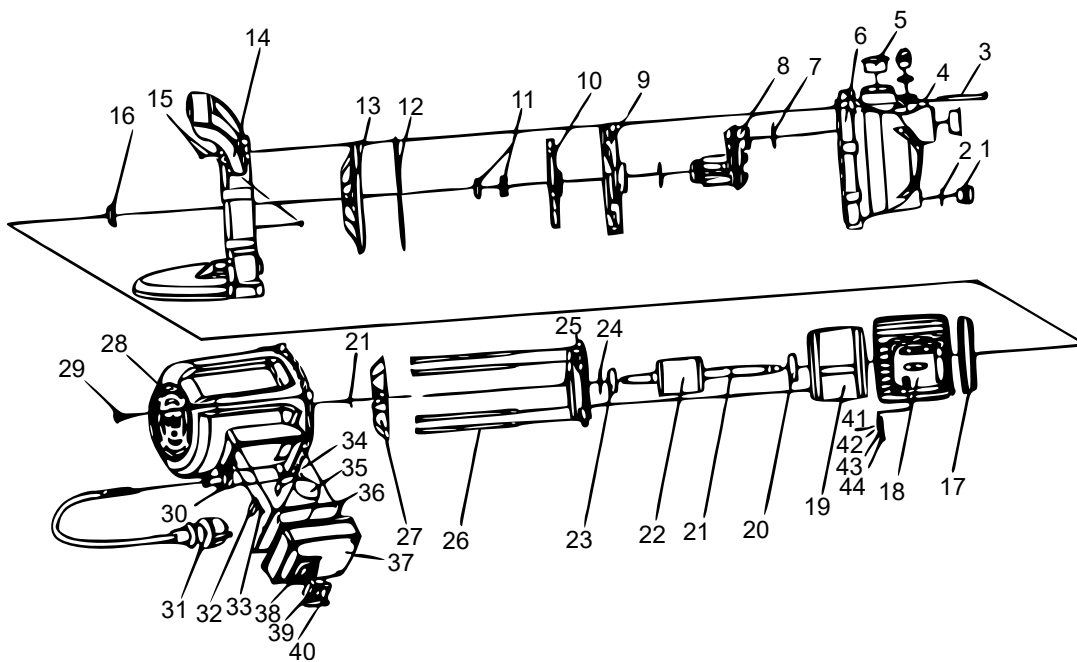


Troubleshooting

Problem	Probable cause	Solutions
Motor is running, but pump does not suck in liquid.	Incomplete filling of the pump with water after commissioning	Fill pump completely with water.
	Reduction in the amount of water sucked in during suction due to the open side drain	Fill pump; when starting up again, raise pressure line by 1 m and hold it until pump begins to suck in.
	Insufficient sealing of the suction line	Check connections on pump (suction hose connections, high pressure hose connection, hose clamp, suction line, seals with sealing tape and hemp fibres); pump only sucks when there is negative pressure.
	Blockage of filter guard or bottom valve at suction connection	Clean filter guard and bottom valve on suction connection.
	Removal of air not possible due to closed water drainage connection	Open water drain connection (tap or nozzle) when pumping.
	No water pumping in specified waiting time	Fill entire suction line with water and check again after 7 min.
	Suction height too high	Reduce suction height (max. 7 m).
	Bottom valve malfunction	Check water level of source; if possible, extend suction line.
Motor does not run.	No power supply	Check voltage.
	Impeller obstructed by fan guard	Pull out plug, unscrew fan guard, turn impeller on slightly by hand to check for free movement.
	Impeller obstructed	Pull out plug, unscrew fan guard, slightly turn motor shaft by hand to drive impeller; if shaft is obstructed, have pump checked by specialist.
Insufficient water transport	Suction height too high (>7 m)	Check suction height.
	Filter guard on bottom valve clogged	Clean filter guard.
	Significant drop in water source level	Immerse bottom valve deeper.
	Pump performance impaired by foreign matter	Clean spire casing, suction line, and pressure line with pressurised water, or send pump together with the pre-filter to a specialist for inspection.
Pump switched off by overheating protection switch	Motor overload due to friction or foreign bodies	Clean spire casing with pressurised water, or have the pump checked by a specialist.

Pump goes on and off continuously.	Missing non-return valve	Check bottom valve and suction valve for tight fit.
Pump goes on and off frequently (domestic water supply).	Damaged water membrane in the water tank	Replace membrane or container
	Lack of compressed air in the container	Supply compressed air through appropriate valve until 1.5 bar is reached.
Pump does not reach required pressure (domestic water supply).	Pressure set too low on the pressure switch	Call specialist/adjust pressure setting on pressure switch (first pull the plug).
Pump pumps continuously (domestic water supply and automatic lawn sprinkler).	Pressure set too high on the pressure switch	Call specialist/adjust pressure setting on pressure switch (first pull the plug).
	Lateral pressure connection not sealed	Seal lateral pressure connection.

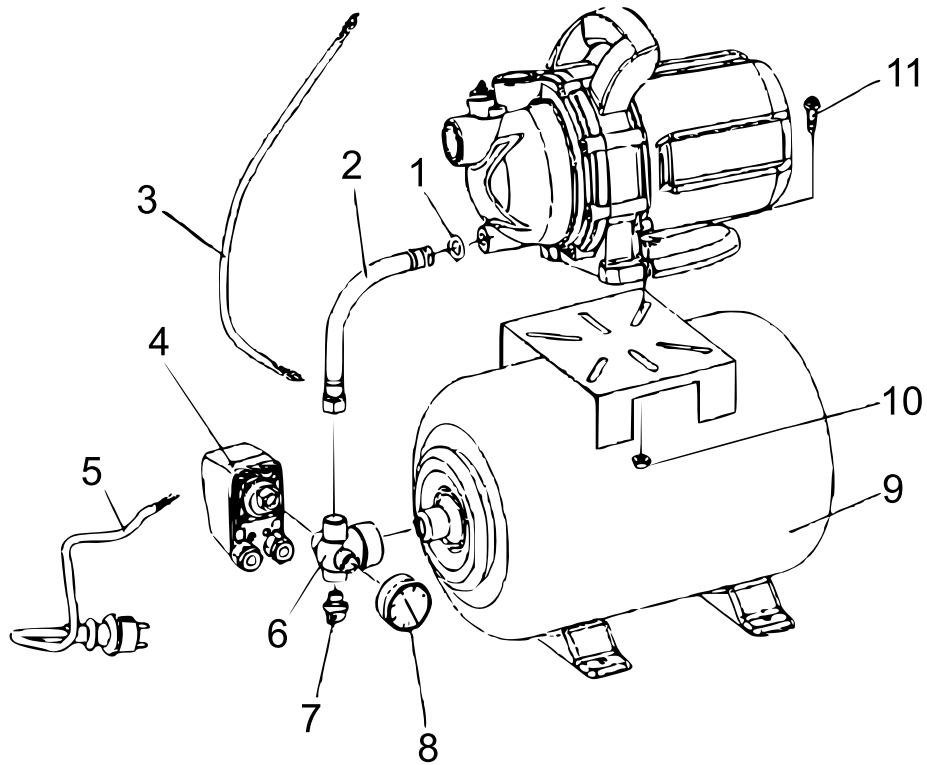
Exploded views and parts lists



Nº	Name	Nº	Name
1	Fill plug	23	Bearing
2	O-ring	24	Washer
3	Bolt	25	Rear motor cover
4	Washer	26	Bolt
5	Cover	27	Ventilator
6	Pump housing	28	Motor housing
7	O-ring	29	Screw
8	Jet pipe	30	Cable gland
9	Diffuser	31	Cable and plug



10	Impeller	32	Clamp
11	Mechanical seal	33	Screw
12	O-ring	34	Capacitor holder
13	Seal holder	35	Capacitor
14	Handle and pump base	36	O-ring
15	Nut	37	End cover
16	Drop guard	38	O-ring
17	Front motor cover	39	Switch
18	Stator shell	40	Screw
19	Stator	41	Washer
20	Bearing	42	Earth wire
21	Washer	43	Washer
22	Rotor	44	Screw



Nº	Name	Nº	Name
1	O-ring	7	Fill plug
2	High-pressure hose	8	Pressure gauge
3	Cable	9	Pressure tank
4	Mechanical pressure switch	10	Screw
5	Cable and plug	11	Nut
6	Brass fitting		

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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