

# Operation Manual

## Submersible Pump 400 W / 7000 $\frac{\text{l}}{\text{h}}$ 65045

wiltec



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



### **Beware:**

The use of this device is allowed on standing bodies of water, garden ponds or swimming ponds and their surrounding areas only with a fault current protection-switch with a triggering nominal current of up to 30 mA (according to VDE 0100 Article 702 and 738).

The device is not suitable for use in swimming pools, paddling pools, and other bodies of water in which during operation people or animals reside. The operation of the device during the stay of people and animals in the danger zone is not allowed. Ask your electrician.

The device is not intended for use by people (including children) with impaired or limited physical, sensory and mental abilities, or lack of experience and/or real knowledge, unless they are supervised by a person responsible for their safety or if they follow the instructions made by their supervisor. Children should be supervised to make sure that they do not play with the device.



### **Attention:**

- Run a visual inspection of the device before every use. Do not use the device if the safety appliances are damaged or worn out. Never override safety regulations.
- Use the device exclusively according to the intended purpose stated in the instructions for use.
- You are responsible for the safety of the working environment.
- If the cable or the plug is damaged because of external influences, the cable must not be repaired! It must be replaced with a new one. This work can be carried out only by an electrician.
- The voltage indicated on the type plate of the device of 230 V AC must correspond to the existent mains voltage.
- Never lift, carry, or suspend the device by using the power cable.
- Ensure the electrical connection is placed in a flood-proof area and is protected from moisture.
- Before working on the garden pump disconnect the appliance by taking the plug out of the socket.
- Avoid exposing the pump to a direct water jet.
- The user is responsible for the compliance with local safety/ installing regulations. If necessary, ask an electrician.
- Consequential damage arising from flooded rooms caused by dysfunctions of the appliance must be avoided by means of the appropriate measures (e.g., by installing an alarm system, a reserve pump).
- In case of malfunction the repair work can be carried out only by a qualified electrician.
- The pump must not run dry or have an entirely closed intake. The warranty is no longer valid if the damage is caused by dry running.
- The submersible pump must not be used for swimming pools.
- The pump cannot be employed for portable water circuits.



### **Warning: Carefully read all the safety guidelines and the instructions.**

Non-compliance with the safety rules and regulations can lead to an electric shock, fire, and/or serious injury. Keep the instructions and the safety guidelines in a safe place in case you need them in the future.



## Stability

- The max. temperature of the conveyed water should not exceed +35 °C in permanent operation. The transport of explosive, flammable or gassing fluids is not allowed.
- The waste water pump must not be used for conveying other fluids, certainly not for motor fuels, cleaning agents and other chemical products!

## Electrical connection

- The electrical connection needs to be with a safety socket 230 V ~ 50 Hz. Fuse protection at least 10 A.
- The pump is turned on and off by means of the built-in on/off switch. The indicator lamp inside the switch lights up if the engine is started.
- The engine is protected against overloading or blocking by means of a built-in thermal motor protection. In case of overheating the pump is turned off automatically due to the overheat protection and after its cooling, the pump is automatically started.

## Installation

The pump must be installed as follows: either in a fixed position with rigid fixed pipeline or in a fixed position with flexible pipeline.



### **Attention:**

- When installing the pump make sure that the pump does not hang up on the pipeline or on its electric cable. The submersible pump must be hung on the handle provided for this purpose or be laid on a pump chamber ground. To ensure the proper function of the pump, the base of the pump chamber must always be mud-free or free of dirt.
- If the water level is low, the mud on the chamber ground can dry up quickly and impede the pump from running. For this reason, it is necessary that the submersible pump is regularly checked (by carrying out a start-up test).
- The float switch is set in such a way so that the pump can start up immediately.



### **Note:**

The pump chamber should have at least the following dimensions: 40×40×50 cm; thus, the float switch can move freely.

## Power supply

The submersible pump is provided with a safety plug. The pump is suitable for being connected to an earthed (grounded) socket with 230 V ~ 50 Hz. Make sure that the socket outlet is sufficiently fused (min. 6 A) and in perfect condition. Insert the pump plug in the socket outlet and the pump is ready for running.



### **Caution:**

If the power cable or the plug is damaged due to external factors, the cable must not be repaired but replaced with a new one! This work can be carried out only by an electrician.



## Installation and commissioning

Before first use, sufficiently long and strong ropes should be attached to the handle. When the pump is submerged in the liquid, the rope can be used along with a handle to balance the pump.

### Installation

A surface area of at least 60 × 60 cm is required for the device. During the installation of the device, make sure that the intake opening is not blocked by foreign objects to ensure the stability of the device.

### Setting the float switch

1. The float switch is inserted through the sensor plug on the pump housing and led into the interior of the housing to automatically control the starting water level.
2. Please check the following points before the submersible pump is put into operation.
3. The sensor must be inserted into the corresponding pre-drilled hole of the pump housing to ensure it remains securely in place.  
**Attention!** If the sensor is not securely inserted into the pre-drilled hole of the pump housing, the pump may fail to pump water or run dry, which can damage the device.
4. Ensure that the metal part of the sensor is fully exposed and clean.

### **Attention!** Handling the rope

Do not operate the pump without the pressure hose to prevent the pump from rotating around its longitudinal axis. During continuous use of the pump with a rope, the condition of the rope must be checked regularly, as it can tear with increasing use.

### Connecting the pressure pipe

1. Screw the pressure pipe onto the pressure connector. All connections must be sealed with thread sealing tape.
2. When using a hose, screw the appropriate hose adapter into the pressure connector.
3. Secure the hose firmly to the hose adapter and secure it with a hose clamp.
4. For occasional use, please use a suitable pipe. For fixed installation, a rigid pipe with a check valve is recommended. This can be attached to the end of the pump to prevent liquid backflow.
5. Tie a strong rope to the handle of the pump and then immerse it at a certain angle into the liquid to be conveyed, ensuring no bubbles form at the bottom of the device to prevent bubbles from being sucked in.
6. Lower the device slowly. Once the pump is submerged, it can be realigned.
7. The pump is placed at the bottom of a liquid container, such as a tank. Secure the loose end of the rope after lowering so that the pump can be operated even when hanging on the rope. The pump can be operated after the device is connected to the power source.

**Attention!** The pump must not transport corrosive, flammable, and explosive substances (such as gasoline, petroleum, nitro thinner), grease, oil, saltwater, and sewage from toilet facilities, as well as low-mobility sludge sewage. The temperature of the liquid must not exceed 35 °C.



## Troubleshooting

| Problem                                           | Possible causes                                                      | Solution                                                |
|---------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|
| The pump does not start.                          | No voltage supply                                                    | Check voltage supply.                                   |
|                                                   | Float switch does not function.                                      | Put float switch in a higher position                   |
|                                                   | The metal contact of the sensor is blocked by dirt.                  | Clean the sensor.                                       |
| The pump does not pump.                           | Suction strainer is blocked.                                         | Clean suction strainer with jet of water.               |
|                                                   | Pressure hose is kinked.                                             | Remove kink.                                            |
| The pump does not turn off.                       | The metal contact of the sensor is blocked by dirt.                  | Clean the sensor.                                       |
| Insufficient pump flow rate.                      | Suction strainer is blocked.                                         | Clean suction strainer.                                 |
|                                                   | Pump capacity is reduced due to dirty and sanding water.             | Clean pump and replace worn parts.                      |
| The pump switches off after a short running time. | Motor protection shuts down the pump because the water is too dirty. | Disconnect pump and clean it together with pump chamber |
|                                                   | Water temperature is too high, Motor protection shuts down.          | Make sure that water temperature does not exceed 35 °C. |

## Cleaning

- Clean the device from the outside.
- Rinse it with clean water. Use a brush and detergent to remove stubborn dirt.
- Immerse the pump in a container of clean water, run it for a while, and flush it during operation.

**Attention!** Before using the pump again, clean it first to remove any possible dirt residues that could affect the operation of the device.

## Storage

If there is a risk of frost, remove the device and accessories, clean them, and store them in a place protected from frost.

## 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

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