

Usage instructions

GB

Solar pump kit Water Splash 2/ 175

These instructions relate **ONLY** to this product and contain important information for using the product for the first time. Please keep these instructions for later reference and should always accompany the product in the event of transference to a new user.

1. Introduction

Dear Customer, thank you for purchasing the solar pump kit.

With this solar pump kit you purchased a product manufactured according to the current state of technology.



This product fulfils all requirements of the valid European and national regulations. The conformity was proved. The relevant declarations and documentation are deposited with the manufacturer.

To maintain this state and guarantee a safe operation, you as the user will have to follow this operating manual!

2. Safety Instructions



- In case of damages caused by not following this operating manual, the warranty rights will expire! We exclude liability for any consequential damages!

- We exclude liability for property or personal damages caused by inappropriate handling or not following the safety instructions.
- In these cases any guarantee rights will expire.

Due to safety and admission reasons (CE) it is not allowed to arbitrarily reconstruct and/or change the solar pump kit.

Therefore, please keep to the operating manual.

The accident prevention rules of the association of the industrial trade cooperative association for electric plants and working material are to be considered in industrial environments.

3. Proper use according to manufacturer specifications

- The pump system is conceived for outdoor use in garden ponds. The pump pumps water depending on the sunlight exposure falling on the solar module.
- **Direct sunlight is required for the pump to function.**
- The pump system is extremely easy to install. No tool is required to install it. The system requires full sunlight exposure on the solar module for the pump to start.
- The pump should not be used to pump drinking water.
- The device does not have any On and Off switch. The pump can start pumping water as soon as it is connected to the solar module (appropriate sunlight is a precondition).
- The output can be altered by attaching a regulator to the pump.
- The size of the rising pipe can be reduced to avoid a possible disturbing gurgling.
- To stop the pump safely, you must either disconnect the cable connection between the solar module and the pump.

4. Installation and start-up

The pump system consists of the following components:

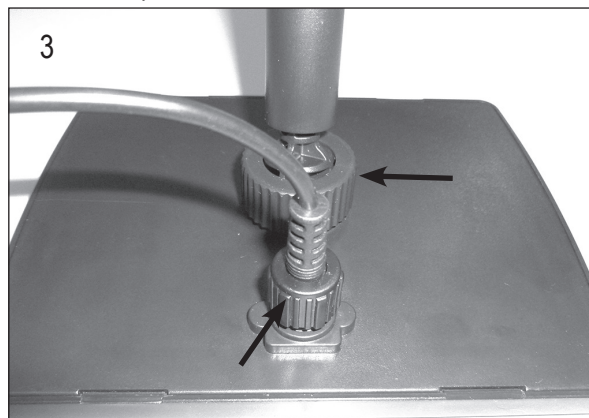
1 piece solar module with earth spike, 1 piece submersible pump in plastic housing with 5 m connecting cable, 4 rising pipes and 4 water nozzles.

1. Unwind the connecting cable of the pump fully.
2. Insert the rising pipes in the pump and then set one of the desired sprinklers on the rising pipe.
3. Place the pump in the pool on a few stones. Avoid a location that is directly on the pond floor, as far too much dirt is sucked in through the pump here and it gets polluted very fast.
4. Now insert the plug of the pump into the socket of the solar module and screw the cap tightly (Illustration 3). Place the solar module in a sunny, shade-free place facing the south.
5. Should the pump performance be too strong/heavy, you can reduce the amount of water being sent to the pump. Simply turn the regulator located on the front side of the pump clockwise (Illustration 1 and 2). Please do not use force when setting the amount of water being sent to the pump. The adjustment range consists of 45°.



Note: Do not use force while inserting the plug into the socket. The front side of the solar module can break.

Caution: Risk of injury! A broken module cannot be repaired and must be disposed of in an environment-friendly manner



5. Care and maintenance

To maintain efficiency, the pump and its components must be washed with warm water, depending on the level of water pollution.

Wipe the solar module clean with a soft, light, slightly wet cloth occasionally.

Note: Before starting work on the pump, disconnect the plug of the pump from the socket of the solar module.

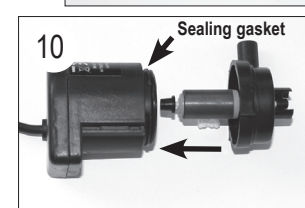
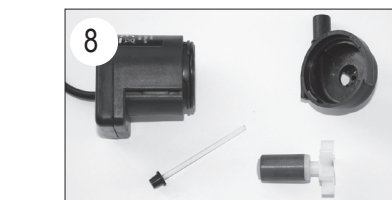
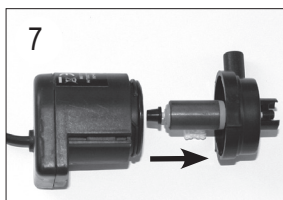
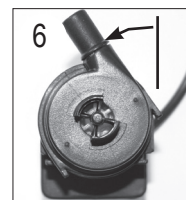
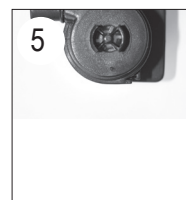
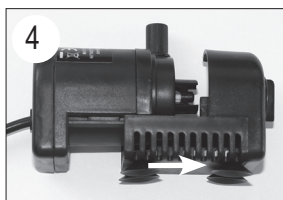
Cleaning pump:

To ensure the performance of the pump, the pump must be washed out with warm water from time to time, depending on the rate of water contamination. For this, open the filter encasement:

Note: Please do not use unnecessary force to assemble or disassemble the pump. The parts are very delicate and can easily be broken.

1. Pull up the pump's connector.
2. Carefully pull the front lid of the pump off, pulling like a sled forwards (Illustration 4).
3. Turn the front lid of the pump app. 45° counterclockwise (Illustrations 5 and 6) and carefully pull the lid forwards (Illustration 7). Please take care in observing the plastic starter switch.
4. Pull the impeller wheel carefully from the pump with the starter switch (Illustration 8).
5. Now clean all of the parts carefully with warm water.
6. Then place the starter with the impeller wheel carefully into the hole of the front lid (Illustration 9).
7. Now carefully slide the lid back axle into the pump. Make sure the lid is on correctly and that the opening is completely sealed by it (Illustration 10).
8. Now turn the front lid again back into the initial position.
9. Now push the lower part of the pump completely together onto the pump encasement.

The pump is once again ready for operation.



6. Technical data

Solar module

- Nominal capacity: 2 Wp
- Nominal voltage: 6 V
- Nominal current: 340 mA
- No-load voltage: 7,2 V
- Short-circuit current: 400 mA
- Protection type: IP 65
- Temperature range: -30°C to +75°C

Water pump:

- Operating voltage: 6 V DC
- Max. pump lift: max. 0,7 m
- Delivery rate: max. 175 l/h
- Power consumption: 0,8 to 1 W
- Max water depth: 1 m
- Protection type: IP 68
- Protection class: III
- Operating temperature range: +4 to +40°C
- Dry run protection: No

Note: Protect the pump against frost!

In the cold winter months, the pump must be taken out of water and kept at a warm place along with the solar module.

7. Safety instructions

The warranty is void if damage to the product is caused by failure to follow these instructions. We are not liable for any consequential damage resulting from this! The same applies to damage to property or personal injury caused by incorrect handling or failure to observe the safety instructions.

- The product must not be modified or altered. This will not only invalidate the authorisation/warranty, but may also lead to safety issues.
- Ensure that the product does not fall into the hands of children, as it is not a toy!
The product must not be used to pump drinking water or flammable liquids.
The pump is not protected against dry running; it must always be operated in water, otherwise it may be damaged.
- Only fresh water may be pumped, as otherwise severe corrosion will occur.
- Keep people and animals away from the pump's suction area. There is a risk of injury if hair is sucked into the pump!
- Do not subject the product to mechanical stress. Handle the product with care.
Impacts, blows or falls, even from a low height, can damage it (e.g. a broken solar panel).
- When temperatures are close to or below freezing, ice forms, which can destroy the pump due to the increased volume of ice. Therefore, remove the product from the water in good time. Drain the water and store the product in a dry, frost-free place.
Keep packaging materials out of the reach of children, as they could become dangerous toys for them.
- If the product is damaged or no longer works, do not use it, have it checked by a specialist or dispose of it in an environmentally friendly manner.
- If you have any further questions that are not answered in these instructions, please contact us or consult a qualified technician.

8. Waste disposal



All electrical and electronic equipment placed on the European market must be marked with the symbol shown on the left. This symbol means that the device in question must be disposed of separately from unsorted municipal waste at the end of its life.

Anyone who owns a used device is required to dispose of it separately from unsorted municipal waste. You are also required to separate used batteries and accumulators (which are not enclosed in the used device) and lamps from the used device before returning them to a collection point, if this can be done without destroying them. Distributors of electrical and electronic equipment are legally required to take back used devices free of charge. We offer the following free return options (more information on our website):

- at the collection points we have set up
- at the collection points of public waste disposal organisations or at the take-back systems set up by manufacturers and distributors in accordance with the Electrical and Electronic Equipment Act (ElektroG)

The end user is responsible for deleting personal data from the used equipment to be disposed of.

In countries other than Germany, please note any additional obligations that may apply to the return and recycling of used devices.

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