

Instruction manual

Solar pond pump set "Palermo-S"



Customer support:

If you have problems or questions regarding this product, simply contact us!

Monday to Friday 9 am to 12 noon and 1 pm to 4 pm.

By phone: +49 9605-92206-0

By e-mail for ordering spare parts: ersatzteil@esotec.de

By e-mail for questions about the product: technik@esotec.de

Product: Manufacturer Item No.: 101769

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.

CE 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. Appropriate Use

- The pumping system is designed for the outdoor use in garden ponds.
- **Direct solar radiation is required for the correct function.**
- The pumping system is characterized by its easy assembly. Tools are not required for the assembly.
- The pump must not be used for the raising of drinking water.
- The performance may be adjusted via a controller on the pump.
- In order to safely interrupt the pumping it is required to interrupt the cable connection between solar module and pump.

4. Assembly and Initiation

The pumping system consists of the following parts:

1 piece solar module, 1 piece submerged pump in the plastic housing with a 5 m connecting cable, 4 pipes and 4 water nozzles.

1. Completely unroll the connecting cable on the pump.
2. Attach the telescopic ascending pipe onto the pump and then attach one of the desired sprinklers onto the ascending pipe.
3. Put the pump in the pond on some stones. Avoid a location directly on the ground of the pond because a lot of dirt is here sucked in by the pump which will then be polluted very fast.
4. Now connect the plug of the pump with the socket of the solar module and screw the cap.

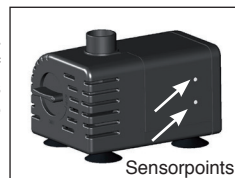
Position the solar module in a sunny, shadow-free place facing south. You can use the ground stick to mount the solar module.

Attention: Risk of injury! A broken module may not be repaired and has to be disposed of environmentally sound.

Note: For further assembly instructions, please see the instruction of the water pump.

5. Dry run protection

The pump is equipped as standard with a dry run protection. Two sensor points are provided on the side of the housing for this. The pump works if these points are under water. If a point projects out of the water, the pump does not work.



6. Service and Maintenance

In order to preserve the performance of the pump, it is required to wash out the pump and its parts with warm water depending on the pollution of the water.

For directions for the service and maintenance of the pump storage, please see the instruction of the pump storage.

Occasionally wipe the solar module clean with a soft and slightly moistened cloth.

Note: Before carrying out operations on the pump, interrupt the plug connection between pump and solar module in order to avoid any unintentional starting during the operations.

7. Technical Data

- System voltage: 8 VDC

Solar module

- Nominal power: 3,5 Wp
- Nominal voltage: 7,8 V
- Nominal current: 450 mA
- Open-circuit voltage: 7,8 V
- Short-circuit current: 490 mA
- Protection system: IP 65
- Protection class: III
- Temperature range: -30°C to +75°C

Water pump:

- Operating voltage: 6 to 9 V DC
- Power consumption (at 8 VDC): ap. 1,5 - 2,15 W
- Max. delivery height (at 8 VDC): ap. 80 cm
- Delivery rate (at 8 VDC): ap. 300 l/h
- Protection system: IP 68
- Protection class: III
- Temperature range: +4 to +40°C
- Dry run protection: yes

Note: Protect the pump from frost!

In cold winter months, it is required to take the pump out of the water and store it in a warm place. The solar module may be left outside during the winter.

8. Safety Instructions:

DANGER for children! Keep children away from swallowable small parts (ascending pipe and sprinklers) and the packaging material. Danger of suffocation!

WARNING: risk of stumbling! Lay the connecting cable so that it will not become a trip hazard!

CAUTION Material damage! When setting up the solar module without module bracket, please pay attention to an adequate stability. The solar module may be damaged in case of tipping or in case of an impact of a foreign object.

Disposal:

Dear customer, please cooperate in avoiding waste. When you intend to dispose of the product in future, please consider that it contains valuable raw materials suited for recycling.

Therefore, do not dispose it of with domestic waste but bring it to a collection point for the recycling of waste electrical and electronic equipment.

Thank you very much for your cooperation!



Manufacturer / Importer

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