



Operating Manual

Solar Pump Systems „Water Splash“

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 fulfills 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. Function and intended Use

- The pump system is designed for the outdoor use in garden ponds. The pump delivers water depending on the solar radiation onto the solar module.
- **Direct solar radiation is required for the function of the pump.**
- The pump system is particularly characterized by its ease of assembly. Tools are not required for the assembly and installation. For the start-up, the system requires the full solar radiation onto the solar module.
- The pump must not be used for the delivery of drinking water.
- The device does not have any on-off switch. The solar pump can pump water (the provided that the corresponding solar radiation is available) as soon as the pump and the solar module are connected to each other.
- In order to avoid a disturbing dabbling, simply slightly telescope the ascending pipe.
- In order to ensure a safe interruption of the delivery, it is required to disconnect the cable connection between the die solar module and the pump.

4. Assembly and Start-up

The pump system consists of the following parts:

1 piece solar module including retainer, 1 piece submersible pump including 5 m connecting cable, 4 ascending pipes and 2 water nozzles.

1. Completely unroll the connecting cable at the pump.
2. Attach the ascending pipes onto the pump and then attach one of the desired sprinklers onto the ascending pipes.
3. Put the pump onto some stones in the pond. Please avoid a place directly at the bottom of the pond because there, a particularly large amount of dirt is suctioned by the pump which would lead to a fast contamination of the pump.
4. Now connect the plug of the pump with the socket of the solar module and tighten lid.
5. Position the solar module at a sunny shadow-free place facing south. For this purpose, please use the enclosed module retainer.

Note: The plug is protected against reverse polarity; please do not apply force when plugging it in. The glass of the solar module is fragile.

Caution: risk of injury! A broken module can no longer be repaired and has to be disposed of in an environmentally sound way.

Note: For further assembly and care instructions, please see the manual of the water pump.

5. Care and Maintenance

In order to maintain the performance of the pump it is required to occasionally, depending on the water contamination, rinse the pump and its parts with warm water.

For instructions regarding care and maintenance of the pump, please see the manual of the pump.

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

Note: Before carrying out work at the pump, please disconnect the plug connection between the pump and the solar module in order to prevent any accidental start during the ongoing work.

6. Technical Data

Pump system:	Water Splash 470	Water Splash 610	Water Splash 1350
Art.-No.:	101012	101013	101014
Operating voltage:	12 VDC	17 VDC	17 VDC
Discharge head/flow rate:	max. 0.9m/470 l/h	max. 1.5m/610 l/h	max. 1.9m/1350 l/h
Power consumption:	max. 3 W	max. 7 W	max. 11.5 W
Protection class:	IP 68	IP 68	IP 68
Operating temperature:	+4°C to +40°C	+4°C to +40°C	+4°C to +40°C
Cable length:	5 m	5 m	5 m
Power solar module:	5 Wp	10 Wp	20 Wp
Nominal voltage:	12 VDC	17.5 VDC	17.28 VDC
Protection class:	IP 65	IP 65	IP 65
Temperature range:	-30°C to +75°C	-30°C to +75°C	-30°C to +75°C
Dimensions (LxWxH):	255x205x20 mm	400x255x25 mm	520x355x25 mm

Note: Protect pump against frost!

During cold winter months, it is required to take the pump out of the water and store it at a frost-free place. The solar module may be left outside during the winter.

7. 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, spare parts, service:

esotec GmbH
Weberschlag 9
Tel.-Nr: +49 9605-92206-0
e-mail: info@esotec.de

D-92729 Weiherhammer
Fax.-Nr: +49 9605-92206-10
Internet: www.esotec.de

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