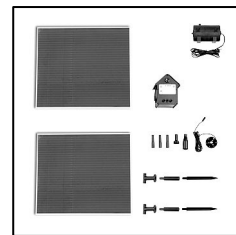


1. Introduction

Dear Customer, thank you for having purchased one of our products. This product fulfils the requirements of the valid European and National guidelines. The conformity has been proved, the declarations in question and the documents are deposited at the manufacturer`s.



2. Security Advices

For damages caused by disregard of this instruction manual, the right of guarantee expires! For further damages we do not accept any liability! For material or personal damage which occurs because of inappropriate use or disregard of the security advices, we do not accept any liability. In such cases any right of guarantee expires. Because of security reasons (CE) the alteration of the device is not permitted. Do not open. Maintenance only to be executed by qualified personnel. The device is no toy. Inappropriate for children.

3. Appropriate Use

The solar pump set is destined for outdoor use.

4. Commissioning

1. Take all parts carefully out of the package. Treat the solar modules very carefully. A broken solar module is not subject to warranty adjustment.
2. Choose a suitable place for the battery box in order to protect it from direct meteorological influence, for example from rain.
3. Fix the ground spike to the aluminium frame of the solar modules and install it in a sunny place. Ideal is an orientation southward of both solar modules. Lay the cable of the solar module in order to avoid stumbling blocks. Attach the cable of the first with the short cable of the second solar module and then the long cable of the second solar module with the plug of the cable at the battery box. When the sun shines on the solar modules the integrated battery is charged.
4. Compose the multipart standpipe and slide the LED ring for the lighting over it. Choose between multi-jet fountain or mushroom nozzle. Now the standpipe is stuck on the stub of the pump which is then placed in the pond.
4. Attach the two connecting cables of the pump and the LED ring with the appropriate connections at the battery box.
5. Activate the solar pump set (button „EIN“(ON)). The pump starts working. At night the LED ring switches itself automatically on to support the lighting (the LED „Automatisch“ (automatic) glows as operation control for continuous operation). When pushing the button „AUS“ („OFF“) the pump is switched off again. Another start is possible as long as the battery charge suffice.

For the fully automated operation every 24 hours the runtime is arbitrary:

After 1 or 2 or 4 hours the pump and the LED ring are switched off and the next day the spectacle restarts at about the same time. The same is valid for all further days. (For operation control only one of the three LED glows „1 Std.“ (1 hour), „2 Std.“ (2 hours) or „4 Std.“ (4 hours)).

6. With the controller at the battery box you can adjust the flow rate of the pump. So you can achieve interesting effects in the pond depending on the different fountain adapters. The effects are pointed out even more thanks to the atmospheric lighting in the darkness.

Please pay attention, that during operation splashing water can cause damages to the subsoil and the closer environment of the fountain. Do only put up and use the pump kit in suitable places. We do not accept any liability for damages which occur through spraying or running out water.

5. Care, maintenance and malfunction

Clean the product only with a humid cloth. Please to not use any sharp cleaner or detergents. In the case of malfunction of the pump check the position for sufficient sunlight. The function of the pump is only possible at temporary direct sunlight on the solar module. At dull days the solar energy is possibly not enough to operate the pump.

For cleaning the filter box of the pump can be opened: press the snap tab at the filter box to open the lid. Clean the foam filter with clear water. Open the lid of the pump by shifting it in direction of arrow. To clean the impeller of the pump loosen the impeller box off the motor part by turning it to the right. The reassembly is effected after cleaning in reversed order.



The 12V lead accu in the battery box is changeable. If necessary unscrew the 5 screws at the front cover and change it against a similar one. The reassembly is effected in reversed order. Pay attention that the seal is in the right place so that no humidity can penetrate the battery box.

Attention! During the winter and transition periods with frost the pump must be completely taken out of the pond and cleaned and stored together with the battery box in a frost-protected and dry place. In order to assure a longer durability of the solar module we recommend to store it as well protected during the winter.

6. Scope of delivery

1. 2 x Solar module with aluminium frame
2. 1 x Ground Spike Set, 6-part (2 x 3-part per solar module)
3. 1 x Battery box (technical unit for electronic control, with integrated battery)
4. 1 x Pump with electronic drive, low-maintenance, filter included
5. 1 x LED ring for lighting
6. 1 x Standpipe, multipart
7. 1 x Nozzle set with mushroom nozzle and multi-jet fountain
8. 1 x Instruction Manual

7. Technical Data

- Solar modules : 12 volt, 4 watt each (8 Watt in total), amorphous silicon coating (2 glass modules with aluminium frame)
- Dimensions : approx. 42 cm x 38 cm x 1,5 cm.
- Accu : 12 volt, 4 amp-hours, lead accu maintenance-free, covered in battery box.
- Pump : 12 volt, with approx. 5 meters feed cable. Flow rate 480 liters per hour maximum.
- Control : Electronically, controller for pump performance at battery box.
- Fountain : Up to 120 cm, dependent on the battery charging and the used adapter (multi-jet fountain height respectively mushroom nozzle).
- Lighting : 6 white LED in a ring situated at the water exit. Automatic power-on at night if the pump is activated.

8. Warranty

Warranty services are executed by the authorized dealer where you have bought the product. Warranty services are executed under presentation of the invoice or receipt of the product.

9. Batteries - Taking back

Batteries must not be disposed into the ordinary rubbish. The user is engaged by law to return batteries after use, for example to public collecting points or to shops where batteries are sold.

