

Usage instructions

Solar Fountain 12/650 pro

Solar Fountain 25/870 pro



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 pump is only suitable for pumping fresh water. The pump is not suitable for chlorinated 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:

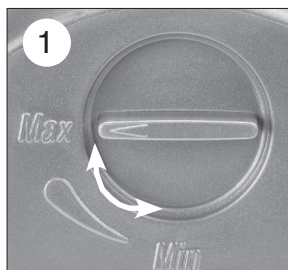
1 piece solar module with earth spike, 1 piece submersible pump in plastic housing with 5 m connecting cable, 4 rising pipes and 2 water nozzles.

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 2).
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). Please do not use force when setting the amount of water being sent to the pump. The adjustment range consists of 90°.

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

Note: When commissioning the pump for the first time, please also observe the operating instructions in the pump. This contains important hints and tips for installation, maintenance and troubleshooting of the pump!



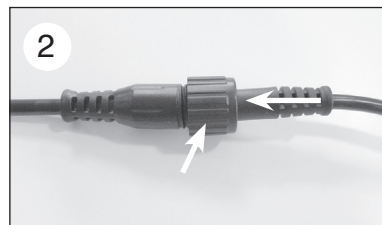
5. Care and maintenance

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.

A detailed description of how to clean the pump can be found in the enclosed manual of the pump.



6. Technical data

Type	Solar Fountain 12/650 pro	Solar Fountain 25/870 pro
Solarpanel:		
Nominal power:	12 Wp	25 Wp
number of cells:	24	36
Nominal voltage:	12,24 VDC	17,28 VDC
Open circuit voltage:	15,36 VDC	20,8 VDC
Nominal current:	0,98 A	1,45 A
Short circuit current:	1,12 A	1,71 A
Protection type:	IP 54	IP 54
Protecton grade:	III	III
Temp.-range:	-30°C to +75°C	-30°C to +75°C
Pump:		
Max. delivery rate:	650 l/h	870 l/h
Max. pump height:	1,4 m	2,4 m
voltage range:	12-18 VDC	12-18 VDC
Power consumption:	5 W	10 W
Protection type:	IP 68	IP 68
Max. operating depth:	2 m	2 m
Water temperature:	+4°C to +40°C	+4°C to +40°C
dry run protection:	yes	yes
item no.:	101912	101913

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:

DANGER for children! Keep children away from the small components (rising pipe and sprinkler) that can be swallowed and from the packaging material. Danger of suffocation exists!

WARNING against the danger of tripping! Lay the connecting cable in such a way that it does not cause people to trip!

CAUTION material damages! If you setup the solar module without the holder, please ensure that it is stable. The solar module can be damaged if it topples over or a foreign body collides with it.

Disposal instruction for electronic devices:

Dear customer, if you do not want to use the article any more, please dispose with it in accordance with the current provisions. Information is available at the community office.



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