

GB Operating instructions

Solar pond aeration set '25/600'

Item no. 101076



This instruction manual is intended exclusively for this product. It contains important information regarding setup and operation. Please be sure to follow these instructions, even if you pass this product on to a third party.

Therefore, please keep this instruction manual on file for future reference.

1. Introduction

Thank you for purchasing this product. You have purchased a product manufactured using state-of-the-art technology. To maintain this condition and ensure safe operation, you, as the user, must follow the instructions in this user manual.

2. Intended Use

The product is designed for outdoor use to aerate fish ponds or garden ponds (freshwater only). A solar panel supplies power to the connected electric aeration pump, which delivers air to a total of five submerged aeration stones. The air is released as tiny bubbles, thereby supplying oxygen to the pond.

It is essential that you follow the safety instructions and all other information contained in this user manual. Please read the entire user manual carefully before assembly, connection and commissioning.

3. Package Contents

- Aeration pump with connection cable (length approx. 5 m)
- 5x silicone air hose (length approx. 3 m, Ø 4/6 mm)
- 5x aeration stones (Ø 30 mm)
- Solar panel
- 4-part solar panel mounting bracket
- User manual

4. Symbol Explanations, Labels



This symbol indicates specific hazards or important information that must be observed.



The arrow icon is used to provide specific information or tips.

5. Safety Instructions



The warranty is void in the event of damage to the product caused by failure to follow these operating instructions. We are not liable for any consequential damages resulting therefrom! The same applies to property damage or personal injury caused by improper handling or failure to follow the safety instructions.

- The product must not be modified or altered. Doing so will not only invalidate the approval/warranty, but may also lead to safety issues.
- Ensure that the product is kept out of the reach of children; it is not a toy!
- The product is intended solely for the conveyance of ambient air and must not be used for other gases, as this poses a risk of explosion.
- Keep people and animals away from the intake area of the aeration pump. Hair could be sucked in, posing a risk of injury!
- The product must not be subjected to mechanical stress. Handle the product with care, as it can be damaged by knocks, blows or falling from even a low height (e.g. a broken solar panel).
- At temperatures around or below freezing, ice forms, which can damage the air hose. Furthermore, the ice could compress the air hose, preventing air from flowing through it.
- Keep packaging materials out of reach of children, as they could become dangerous toys.
- If the product is damaged or no longer works, do not continue to use it; instead, have it checked by a qualified technician or dispose of it in an environmentally responsible manner.
- If you have any further questions that are not answered in this user manual, please contact us or another qualified technician.

6. Installation, connection and commissioning

Position the solar panel in a location that receives as much direct sunlight as possible. The solar panel will deliver its maximum output when sunlight strikes it at a right angle. The angle of the solar panel can be adjusted within certain limits using the mounting bracket.

a) Setting up the solar panel with the ground spike

Assemble the ground spike. Then slide the top end of the ground spike (see arrow in the picture on the right) onto the frame of the solar panel (roughly in the middle, so that the solar panel does not tip over).



The ground spike allows the solar panel to be positioned on the ground at an angle of approximately 45°.



Do not choose a stony or hard surface.

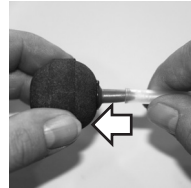
Do not use any tools to drive the ground spike into the ground, as this will damage it. Press the ground spike into the ground by hand only.

b) Connecting the air hoses and aeration stones



Please note:

All 5 air hoses/aeration stones must always be connected.



Connect each of the 5 aeration stones to one end of the 5 air hoses, and secure the air hose firmly.

Then secure the other end of the air hoses firmly to one of the 5 outlet valves on the aeration pump.

c) Setting up the aerator pump

Choose a dry spot near the pond, ensuring that the aerator pump is protected from direct sunlight.



Although the aerator pump is suitable for outdoor use (IP44), it must never be placed in or under water. You should therefore place it on a suitable base.

The aerator pump must also be positioned so that it is higher than the aeration stones. Otherwise, water could flow back into the aerator pump, which may cause damage.

If such a location is not possible, you will need a suitable non-return valve (available as an accessory; not included).

d) Positioning the aeration stones

Place the aeration stones at the end of the air hoses in the pond; they should not be submerged deeper than 50 - 100 cm.



Make sure that the aeration stones are not lying in the mud at the bottom of the pond. Algae and mud can block the openings in the aeration stones.

e) Connect the solar panel to the aerator pump

Connect the plug at the end of the aerator pump's connection cable to the socket on the solar panel. The union nut can be used to secure the connection (do not use excessive force!).



As the aeration pump does not have an on/off switch, it will start operating immediately when there is sufficient sunlight on the solar panel.

To stop the air flow, you must disconnect the connector between the solar panel and the aeration pump. Alternatively, you can place a suitable light-proof cover over the solar panel.

7. Storage

If you do not intend to use the product for an extended period, disconnect the aerator pump from the solar panel. Clean the product and store it in a dry, frost-free place out of the reach of children.

8. Troubleshooting guide

The aerator pump is not working

- Check the plug connection between the aerator pump and the solar panel.
- There is insufficient sunlight on the solar panel (e.g. due to clouds, the solar panel being shaded, etc.). If necessary, reposition the solar panel.
- The solar panel is dirty; clean the surface.
- The aerator pump may have drawn in water (if it was positioned in the wrong place). Disconnect the hose from the aerator pump and move it back and forth slightly to try to get the water to drain out (the solar panel should be supplying enough power for the pump to start up whilst you do this).

The pump is running erratically

- In changeable weather (alternating between sunny and shaded conditions), the energy from the solar panel is not always sufficient to power the aerator pump, so it runs erratically. This is normal.

Not enough air is coming out of the aeration stone

- The pores of the aeration stone are blocked. Try cleaning it (see Chapter 9. c) or replace the aeration stone with a new one.
- Check the air hose for kinks or damage.
- Place the aeration stone in shallower water.
- The solar panel is not receiving enough sunlight (e.g. due to clouds, the solar panel being shaded, etc.). If necessary, reposition the solar panel.

9. Maintenance and Care

a) General

Use a soft, dry, lint-free cloth for cleaning.



Never use harsh cleaning agents. These can damage the surfaces and may also cause residues to get into the water.

b) Solar panel

Clean the surface of the solar panel with a soft cloth dampened with water. Never press down hard on the surface, as this could cause the protective glass or the solar panel itself to break.

c) Aeration stones

Algae may build up on the aeration stones after prolonged use. This can be removed with a soft brush (e.g. a toothbrush). Check that the aeration stones are working properly, if necessary by testing them in a bucket of water.

Over time, the fine pores inside the aeration stones become clogged with tiny particles of dirt carried in the air. If only a few air bubbles are escaping from a aeration stone (despite sufficient sunlight reaching the solar panel), the aeration stone should be replaced with a new one.

10. Disposal



All electrical and electronic equipment placed on the European market must be marked with the trash can symbol shown on the left. This symbol indicates that, at the end of its useful life, this equipment must be disposed of separately from unsorted municipal waste.

Every owner of end-of-life equipment is required to ensure that it is collected separately from unsorted municipal waste. You are also required to separate used batteries and rechargeable batteries (that are not enclosed within the end-of-life device) as well as light bulbs from the end-of-life device before handing it over to a collection point, provided this can be done without damaging the device.

Distributors of electrical and electronic equipment are legally required to accept the return of end-of-life devices free of charge. We offer you the following free return options (further information is available on our website):

- at the collection points we have established
- at the collection points operated by public waste management authorities or through the take-back systems set up by manufacturers and distributors in accordance with the ElektroG

The end user is responsible for deleting personal data from the end-of-life device to be disposed of.

Please note that additional obligations regarding the return and recycling of end-of-life devices may apply in countries outside Germany.

11. Technical specifications

a) Aeration pump

Operating voltage	18 V/DC
Power consumption	approx. 5 W
Air flow rate.....	Total max. 600 l/h (5 x 120 l/h each)
Delivery pressure.....	0.66 bar
Adjustable air flow	no
Hose connection.....	4 mm
Protection rating	IP44
Protection class	III
Cable length	approx. 5 m
Dimensions.....	239 x 147 x 102 mm (L x W x H)
Weight	approx. 1.1 kg

b) Solar panel

Rated voltage	18,36 V/DC
Rated current.....	1.36 A
Rated power	25 Wp
Cell type.....	Polycrystalline
Protection rating	IP54
Protection class	III
Dimensions.....	514 x 349 x 23 mm (L x W x H)
Weight	approx. 1.8 kg

12. Spare parts



You can always find the latest information on available spare parts and accessories on our website under the relevant product page.

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Customer Service:

If you have any problems or questions about this product, please feel free to contact us!
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