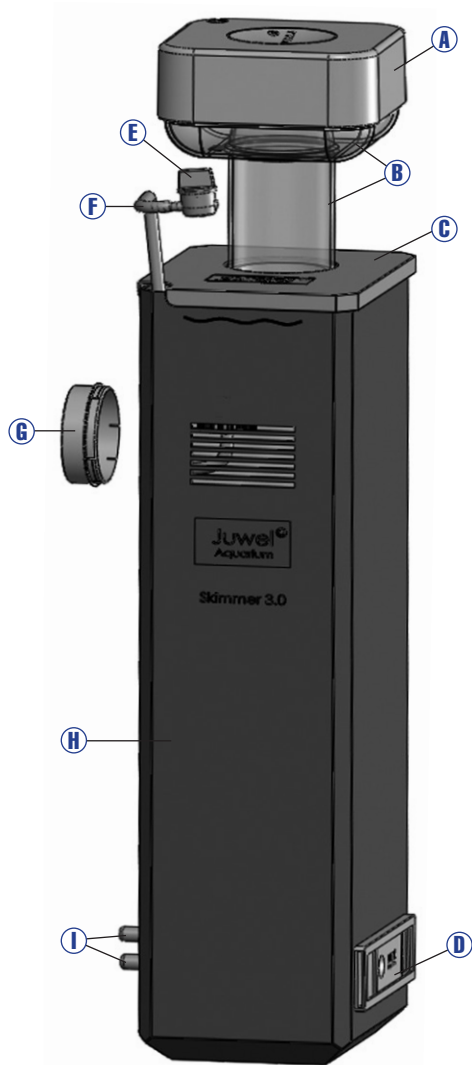


Instruction Manual

Skimmer 3.0




Introduction


Thank you for choosing a JUWEL Aquarium product.


Our products represent over 40 years experience in the manufacturing of aquariums and their accessories applying the most modern production techniques in bringing together the JUWEL Aquarium system, which is both easy to use and simple to maintain.

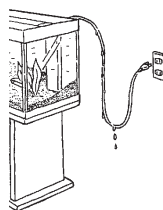
Safety instructions:

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

 Always unplug all immersed electrical equipment from mains before placing your hands into the water.

 Operation with the RC circuit breaker only, max. 30mA.

 The power plugs of the electrical devices must not become moist. Connect the power plugs to the power supply at such a height that the connection cable forms a loop which would enable the water to drip down.



- A) Foam chamber unit cover
- B) Foam chamber unit
- C) Skimmer housing cover
- D) Sliding water outlet controller
- E) Air controller
- F) Air hose
- G) Mount
- H) Skimmer housing
- I) Spacer

JUWEL Skimmer 3.0

JUWEL Skimmer 3.0 is a compact internal skimmer with a high skimming capacity along with the added benefit that no water exits the aquarium.

The integrated pump generates an air-water mixture of up to 1,500 l/h and consequently ensures effective protein skimming for saltwater aquariums with a volume of 100 - 500 litres. However, JUWEL Skimmer 3.0 does not serve as filter system replacement in the saltwater aquarium.

The skimming utilises the fact that many so-called surface-active substances accumulate at the boundary between water and air, especially in saltwater. This includes proteins and their first stages of their decomposition (these contain the undesired elements nitrogen and phosphorus), but also smallest dirt particles (solids) etc.

Installation in JUWEL aquariums

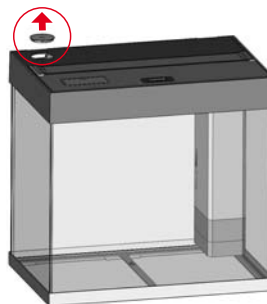
The JUWEL skimmer is intended for installation in the JUWEL aquariums Rio, Lido, Vision and Trigon. These JUWEL aquariums are characterised by the fact that the flap opening for the skimmer is already available closed by a cap. Remove this cap!

Recommendation:

Flap set for the JUWEL Skimmer

If the flap of your JUWEL aquarium does not feature this cap for the skimmer, contact your specialist retailer.

The flap set may be purchased as original JUWEL spare part there.

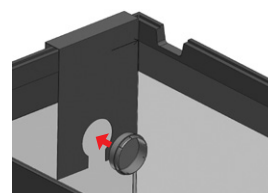
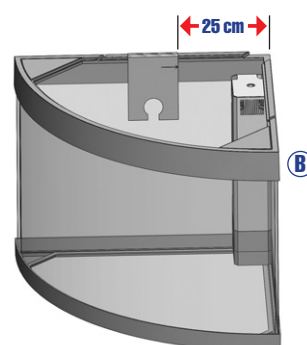
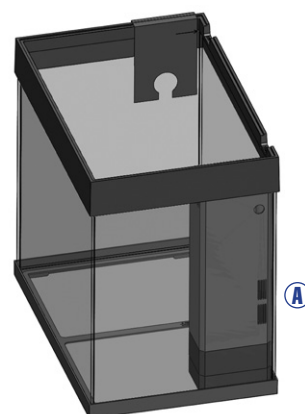


Installation of the mount for the skimmer

The skimmer is permanently installed by means of the mount included in the delivery. This ensures the correct position in the aquarium and consequently optimum skimming results. The aquarium should be emptied to such an extent that you may wipe the panes dry.

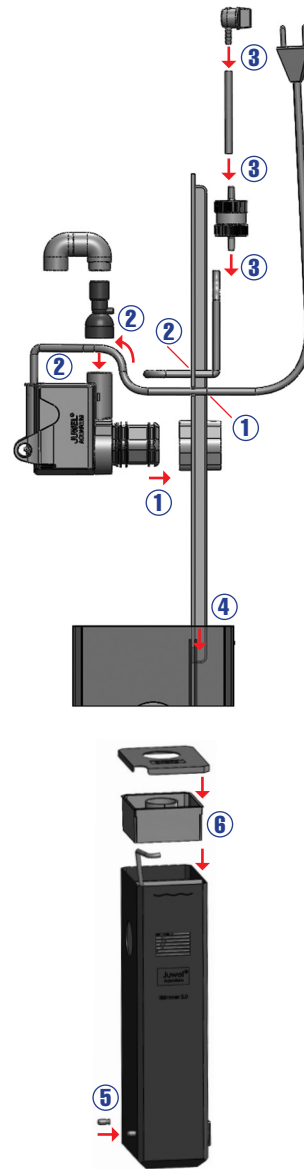
You achieve the correct position by using the enclosed template for positioning the mount.

- Initially fold the template at the designated lines and align it in the manner detailed below.
- Aquarium model RIO, LIDO, VISION:
Hang the template from the inside over the edge of the frame of the left side pane and align it at the rear left corner (ref. figure A).
- Aquarium model TRIGON:
Hang the template with a distance of 18 cm to the rear outer edge of the frame from the inside over the edge of the frame of the left side pane (ref. figure B).
- Secure the template by means of an adhesive strip in order to avoid shifting.
- Apply a sufficient quantity of the enclosed JUWEL glue Conexo (item No. 88355) to the outside of the mount after attaching the template.
- Affix the mount through the designated opening of the template from the inside to the aquarium pane and let it dry for at least 48 hours.
- Remove the template after the drying time.



Skimmer preparation

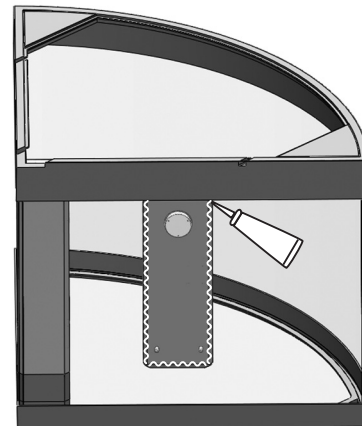
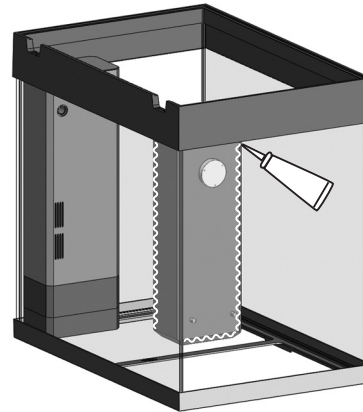
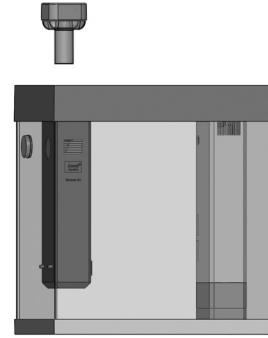
- Remove the housing cap as well as the foam collector and retrieve the separation wall from the housing. Check the correct horizontal position of the sponge on the grid.
- Slide the pump into the opening on the separation wall and route the power cable through the lower cable guide of the separation wall (fig. 1).
- Connect the diffuser with the water flow director to the pump outlet. Connect the air hose to the diffuser and route it through the upper hose guide in the separation wall (fig. 2).
- Arrange the silencer between the two air hoses and the air controller at the end of the hose (fig. 3).
- Insert the separation wall into the housing (fig. 4) and install the spacer at the housing (fig. 5).
- Install the foam collector and the housing cap (fig. 6).



Skimmer installation

1. Place the skimmer with the round opening on the permanently glued mount.
2. Install the lighting cover with the present opening above the skimmer.
3. Route the tube of the foam chamber unit through the opening of the lighting cover to the foam collector.
4. Close the foam collector by means of the cap.

If you wish to close the space between the skimmer and the aquarium pane, apply a silicone seam as shown. This way you prevent fish from being able to swim into the gap.



Operation of the skimmer

Connect the power cable in such a manner that your skimmer is ready for use.

Now open the air controller and the sliding controller of the water outlet to such an extent that the foam fills half the foam chamber unit.

The normal foam production will only be reached after a run-in period that may take from a few hours up to 3 days.

The foam is rather light and watery during the run-in period of the saltwater aquarium. The foam production depends on the water contamination of the aquarium water. We recommend to open the water outlet completely and to adjust the foam production via the air controller in order to use the full capacity of the skimmer.

Maintenance of the skimmer

Weekly:

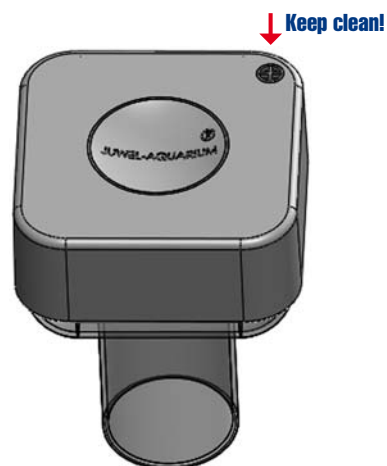
Check the foam production and readjust the air controller if applicable.

Empty the foam chamber unit. After that, clean the unit by using clear tap water and possibly a brush only. Do not touch the inside of the foam chamber with your fingers as this substantially reduces the foam production.

Always ensure that the air hole of the foam chamber unit is free of soilings (ref. fig.). Check the intake and outlet slots at the housing of the skimmer for possible blockages and clean them if applicable.

Do not deactivate the pump during the cleaning!

Reinsert the foam chamber unit after the cleaning. After a cleaning, the normal foam production is achieved again after a few hours.



Maintenance of the skimmer

Quarterly:

Deactivate the skimmer pump and lift off the foam chamber unit. Remove the cap and the foam collector from the skimmer housing and retrieve the separation wall with the skimmer pump.

Now retrieve the pump from the separation wall and release the diffuser from the outlet of the pump.

Clean all components and check them for damage. Particularly open and check the silencer as well as the air controller, the diffuser and the hoses for soilings or damage. Replace them in that case, e.g. with the "Skimmer 3.0 service set" (item No. 90130). Available from your JUWEL Aquarium retailer.

Also check the blue sponge (item No. 88050) in the housing for soilings and replace it if applicable. Reassemble the components in reverse order.

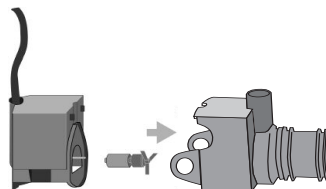
Now reconnect the pump to the power grid.

Maintaining the JUWEL pump Bioflow in the skimmer

The JUWEL aquarium pump requires little maintenance. Regardless, you should confirm the functionality at regular intervals.

Please perform the following steps in order to test and maintain the pump:

1. Disconnect the pump and the heater from the power supply.
2. Remove the pump from the separation wall.
3. Remove the pump housing from the motor and remove the impeller.
4. Thoroughly clean all parts and particularly check the impeller for signs of wear at the magnet.
6. After that, please reinstall the pump in reverse order in the skimmer.



Recommendation:

In order to ensure that the power head operates at its optimum and maintains its low noise level, we recommend to check and potentially replace the parts subject to wear and tear, such as the impeller.

All spare parts are available from your local JUWEL Aquarium retailer.

Safety instructions:

Never operate the power head out of water.

Always unplug the power head from the power supply before removing it from the filter.

The power head is intended for indoor use and for use in fluids up to 35°C.

Never repair the electrical cord or plug. In case of damage replace the complete power head.

Tip:

JUWEL pump cleaning brush

For optimum maintain of the JUWEL pump we recommend the JUWEL cleaning brush (item No. 90151). Available from your JUWEL Aquarium retailer.



Recommendation

JUWEL Digital Thermometer

To monitor the temperature we recommend the JUWEL Digital Thermometer (Part No. 85701). Available from your JUWEL Aquarium retailer.



Tip:

JUWEL automatic feeder

We offer you the JUWEL automatic feeder matching all JUWEL aquariums.

It is available from specialist retailers as original JUWEL Aquarium accessory (item No. 89000).



Malfunction - Cause - Remedy

The skimmer produces foam, but it does not rise into the foam chamber

--- Newly equipped aquarium and / or newly installed skimmer.

Wait for the run-in period (1-3 days) and/or the occurrence of a higher water contamination due to stocking with animals.

--- The water level is too low.

Refill the water level in accordance with the marking on the housing.

The skimmed liquid is very clear

--- Newly equipped aquarium and / or newly installed skimmer.

Wait for the run-in period (1-3 days) and/or the occurrence of a higher water contamination caused by your fish. As the water contamination increases, darker foam is being produced.

--- The air controller has been opened too far.

Reduce the air supply until dark foam is being produced.

--- Insufficient water contamination.

The water contamination by your fish defines the colour of the foam. Light stocking = light foam, heavy stocking = dark foam.

The skimming performance drops after longer operation or is interrupted

--- The air supply is disrupted due to salt crystals or a bent hose.

Clean the air hose with clear water or check the hose guide.

--- The water intake or outlet is soiled.

Clean the water intake and outlet.

--- The pump is soiled or defective.

Remove, open and clean the pump. Replace the impeller if applicable.

The skimmer is noisy

--- The pump is soiled or defective.

Remove, open and clean the pump. Replace the impeller if applicable.

The foam chamber fills up too quickly

--- The air controller is open too far.

Reduce the air supply at the air controller. Proceed in small steps only.

Excessive quantity of air bubbles in the aquarium

--- The function of the blue sponge is faulty.

Check the blue sponge for soilings and the correct arrangement. Clean or replace if applicable.

--- The air controller has been opened too far.

Reduce the air supply at the air controller. Proceed in small steps only.



Proper disposal (electrical waste)

The labelling on the product or on the accompanying literature declares that it must not be disposed of, at the end of its service life, with the ordinary household rubbish. Please dispose of this equipment separately from other waste, to protect the environment or public health from damage by unregulated waste disposal. Recycle the equipment and support the sustained recycling of material resources.

Private users should contact the dealer who sold them the product or the responsible authorities, for a demonstration on how to recycle the equipment in an environmentally friendly way.

Guarantee

We guarantee the performance of the JUWEL-Aquarium product or its accessories to the purchaser for a period of 24 months from the date of purchase according to the following conditions:

§ 1 Extent of the guarantee

(1) This guarantee extends to the JUWEL-Aquarium product and its components excluding items subject to wear and tear such as light tubes and filter media. It is limited to the product as such and does not cover damage to other property and/or individuals. In addition, the provisions of the product liability law apply. These provisions are not limited by the aforementioned arrangement.

(2) It is the prerogative of JUWEL-Aquarium to decide whether the guarantee is performed by means of repair or replacement. If neither repair nor replacement can ensure the performance of the JUWEL-Aquarium product the purchaser is entitled to demand a reduction in price or to return the product against repayment of the purchase price.

§ 2 Guarantee period and settlement procedure

(1) The guarantee period begins on the day of the purchase of the product from the retailer. Claims under this guarantee will not be honoured, if

- (a) the damage is caused as a result of improper use or maintenance or non-observance of the instructions given in this manual
- (b) the product or its components have been maintained by persons or companies not authorised by the manufacturer to do so
- (c) the product or its components have been damaged by mechanical means of whatsoever kind, in particular broken glass

(2) All claims under this guarantee have to be notified to the retailer, from whom the aquarium has been purchased without delay, however, not longer than 2 weeks from the day of first occurrence of defects. Rights under the consumer protection laws will remain unaffected.

(3) Guarantee claims will only be accepted if the validity of the claim is supported by evidence of purchase of the JUWEL-Aquarium product.

This declaration of guarantee is a translation only. In case of doubts the original German language version prevails.

We reserve the right to make technical alterations.

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© JUWEL, Trigon, Vision, Rekord, Rio, Lido, Vio, Monolux, Duolux, Multilux, Korallux, High-Lite, Warm-Lite, Colour-Lite, Day-Lite, Bioflow, Cirax, Nitrax