

Operation Manual

ROLLERMAT COMPACT I



Automatic mechanical filter for fresh and saltwater aquariums.

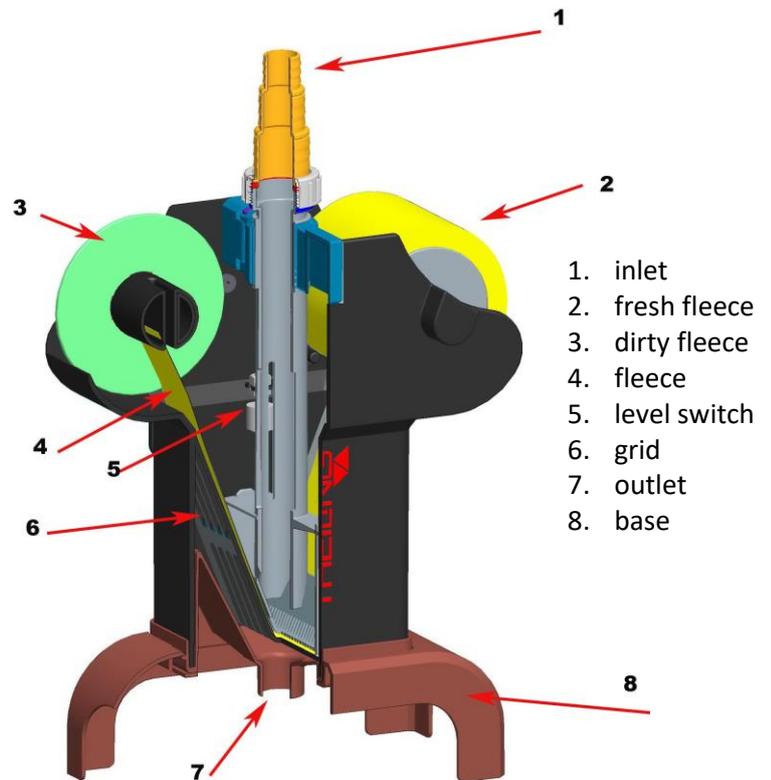
The Rollermat removes waste particles from the water. Biofilter and protein skimmer are relieved and the result is crystal clear water.

1. Construction

Front view: The motor and the level switch are on the back side

2. Working principle

The polluted water flows into the dirty water chamber and passes the filter fleece. From here it flows back into the filter sump. If the fleece is loaded with dirt, the flow through the fleece decreases and the water level in the dirty water chamber rises. If it reaches a certain level, a level switch starts the motor and a small part of fresh fleece is loaded on the grid. Fully automatically. It will take 4 – 6 months, depending on the waste production in the system until the complete fleece is used and has to be replaced.



The Fleece is very fine. Even smallest particles are removed. The dirt is filtered out of the system, before it is metabolized biologically. This relieves the biofilter and the protein skimmer in seawater.

The pores of the fleece are even fine enough to retain many protozoa, like fish parasites in fresh and saltwater. They cannot pass the fleece. This is unique.

3. Features of the Rollermat:

- Efficient mechanical filtration by fine filter fleece
- Automatic transport of the fleece.
- Easy changing of the used fleece roll.
- The rolls are easy to change, up to 100 m length.
- The roll is 10 cm wide, for flow rates up to 2000l/h, depending on the water quality.
- Minimum power uptake. Average below 0,1w.
- 12V safety voltage



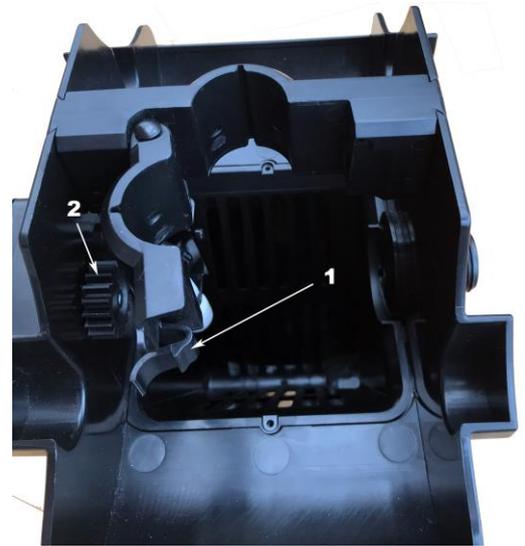
The fleece is transported from the releasing roll to the accepting roll. The rolls are driven by gear wheels by gear wheels. If the accepting roll is full – or the releasing roll empty, it can be taken out of the filter easily. Both parts can be separated and the fleece can be discarded.

1. Inserting a new fleece roll

If the fleece roll is replaced, it must be taken care, that the O-rings at the left and right side of the new roll are mounted in the right way. They prevent, that the roll is turning freely. This keeps the fleece always taut.

The inlet piping is secured with a clip. To change the roll, loosen it and remove the complete inlet piping. Take care not to get stuck at the level switch.

1. Clip
2. 2. Gear wheel.



The new roll is now inserted. The fleece is directed from the new roll downwards. Hold the end of the fleece tight while remounting the inlet pipe. This presses the fleece to the bottom towards the grid. If the inlet pipes are in the right position, you can close the clip. Now you can tear the fresh end of the fleece and wind it round the receiving roll. You can use a piece of tape to fix it there. The receiving roll is now pressed into its place so that the gear



wheel of the roll and the gear wheel of the motor match.

The connection cable can be pushed into the transformer and secured with the nut. The direction of the poles does not matter. If the transformer is connected to the mains, you can press and hold the switch at the electronic compartment to start the motor and the fleece is pulled taut. Now the Rollermat Compact I is ready to start.



Advice for heavily polluted water:

In this case, the fleece roll may be used quite quickly. It may occur that the dirty roll cannot dry in time and get too heavy for the motor to turn it. In this case, we recommend cutting the fleece once it is half used and discard the dirty fleece. The rest can be remounted and used until the end.



5. Set Up

Aquarium: The Rollermat can be placed into the filter sump below the aquarium.

Alternatively, it can be placed above the water level, so that the purified water can flow freely back into the aquarium. If it is placed inside of the filter sump, the water level in the sump is always kept minimum 5 cm below the level of the water outlet. The water flows freely through the filter.

Left fig: max water level in the filter sump.



The motor of the Rollermat has a power uptake of 4W and is operated with 12V~ safety voltage. A transformer is included.

Connection:

The water inlet is connected to the top of the Rollermat Compact I. The connection fits hoses with a diameter of 25, 30 and 40 mm inner diameter. It can be cut at the right diameter. The hose is connected to the overflow of the aquarium – or to a separate pump. The flow rate may not exceed 2000l/h. (c. 500 gph.) The water outlet is located at the bottom of the unit. The water can flow freely into the filter sump. Alternatively a pipe with 25 mm diameter can be connected. The diameter of the water outlet may not be reduced. If you use a 25 mm pipe, you must take care, that the water can flow freely. It may not be directed upwards – not above the height of the water outlet of the unit.



Emergency overflow:

The outlet in the center of the Rollermat Compact is the emergency overflow. It can be connected to a 25 mm PVC pipe and directed into the filter sump. Alternatively a 25 mm hose fitting may be pressed into the outlet and a hose can be connected to direct the water back into the sump.

6. Technical data

Power supply motor	12V, 50/60Hz , 4 Watts
Transformer	230V/50 Hz
Water inlet	Hose connection 25/30/40 mm diameter
Water outlet	25 mm socket
overflow	25 mm glue socket, 1" screw connection.
Width of the fleece roll	10 cm
Maximum water level, if placed in a filter sump	10 cm above the bottom of the Roller mat
Dimensions (L x B x H)	30 cm wide, 22 cm deep, height without base 46 cm (with base 52 cm)

7. Accessories: Spare fleece rolls

Article number: 4043971016459 fleece roll 40g/m², 20m long

Article number : 4043971016492 fleece roll, set of 3

8. Warranty

Should any defect in material or workmanship be found within 12 months of the date of purchase, Theiling GmbH undertakes to repair or, at our option, replace the defective part free of charge – always provided the product has been installed correctly, is used for the purpose that was intended by us, is used in accordance with the operating instructions and is returned to us carriage paid. The warranty term is not applicable on the all consumable products. Proof of Purchase is required by presentation of an original invoice or receipt indicating the dealer's name, the model number and date of purchase, or a Guarantee Card if appropriate. This warranty may not apply if any model or production number has been altered, deleted or removed, unauthorized persons or organisations have executed repairs, modifications or alterations, or damage is caused by accident, misuse or neglect. We regret we are unable to accept any liability for any consequential loss. Please note that the product is not defective under the terms of this warranty where the product, or any of its component parts, was not originally designed and / or manufactured for the market in which it is used. These statements do not affect your statutory rights as a customer. If your Theiling GmbH product does not appear to be working correctly or appears to be defective, please contact your dealer in the first instance. Before calling your dealer, please ensure you have read and understood the operating instructions. If you have any questions your dealer cannot answer, please contact us. Our policy is one of continual technical improvement and we reserve the right to modify and adjust the specification of our products without prior notification.

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- Technical changes reserved –

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