

INSTRUCTIONS 2215 / 2217

IMPORTANT SAFETY INSTRUCTIONS

WARNING – To guard against injury, basic safety precautions should be observed, including the following:

a) READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

b) DANGER – To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs by yourself; return the appliance to an authorized service facility for service or discard the appliance.

1) If the appliance falls into the water, **DON'T** reach for it! First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately. (Non-immersible equipment only)

2) If the appliance shows any sign of abnormal water leakage, immediately unplug it from the power source. (Immersible equipment only).

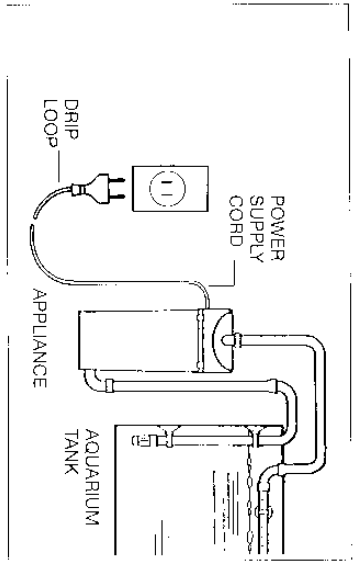
3) Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not intended to be wet.

4) Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or has been dropped or damaged in any manner.

5) To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side or a wall-mounted receptacle to prevent water from dripping onto the receptacle or plug.

A "drip-loop", shown in the figure below, should be arranged by the user for each cord connecting an aquarium appliance to a receptacle. The "drip-loop" is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle.

If the plug or socket does get wet, **DON'T** unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water in the receptacle.



- c) Close supervision is necessary when any appliance is used by or near children.
 - d) To avoid injury, do not contact moving parts or hot parts such as heaters, reflectors, lamp bulbs, and the like.
 - e) Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
 - f) Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
 - g) Do not install or store the appliances where it will be exposed to the weather or to temperatures below freezing.
 - h) Make sure an appliance mounted on a tank is securely installed before operating it.
 - i) Read and observe all the important notices on the appliance.
 - j) If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or wats than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
 - k) This appliance has a polarized plug (one blade is wider than the other). As a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not attempt to defeat this safety feature.
- Exception: This instruction may be omitted for an appliance that is not provided with a polarized attachment plug.*

“SAVE THESE INSTRUCTIONS”

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Thermofilter 2313

- A ① Pump head with heater ② Rotary knob ③ Filter canister ④ Pressure side hose connection ⑤ Lattice screen ⑥ Suction side hose connection ⑦ Suction pipe ⑧ Strainer ⑨ Suction cups ⑩ Outlet pipe ⑪ Pipe plug.

B Model with filter media:

Place the bottom lattice screen in position with feet down and insert coarse filter pad. Remove filter bag from plastic packaging and rinse thoroughly under running water. Then press loosely into filter canister. Apply filter wool (EHFI-SYNTH).

Empty model:

Fit with EHEIM filter media as described above. Use EHFI-MECH, and EHFI-FIX or a filter pad as a coarse filter layer. When using for the first time, it is advisable to filter with carbon (EHFI-KARBON or EHFI-DRAFIN). Later, filtering can be carried out optionally with either chemical or biological filter media.

C Moisten O-ring and fit on to base of pump head. Attach pump head and close clips.

D Place filter beneath aquarium – it must be at least below the water level. **The filter may only be operated in an upright position.**

E Fit outlet pipe to rear wall of aquarium without the pipe plug (Fig. 1 = spraying effect; Fig. 2 = surface motion).

F Assemble suction pipe and strainer and attach to wall of aquarium (drawing A) with 2 suction cups and connect hoses to filter; suction side on bottom intake nozzle, pressure side on pump head. Fasten hoses with clamping nut (drawing K).

Start of operation:

With the EHEIM suction device (order no. 400354) or by sucking by mouth, suck the water on the pressure side above the edge of the tank. This will start a siphon. When the canister is completely full of water, connect the pressure hose

to the outlet pipe and switch on the filter by plugging in the power plug. (A vibrating noise in the pump is normal during the first few seconds of operation.) Only fit the pipe plug of the outlet pipe when there are no more bubbles in the flow of water.

G Thanks to a thermo-sensing element, the water temperature is measured and constantly regulated to within a few 1/10 °C. A safety fuse prevents overheating if a fault occurs. **The thermofilter is only suitable for fresh water.**

H Maintenance and care:

Pull out power plug and remove pump head. In order to clean the pump, the lattice screen can be removed via nylon screws. Remove any deposits on the heating spiral by rubbing off.

Release locking mechanism on pump head and remove pump parts as shown in the drawing.

I Lift out the cooling pipe insert with a screwdriver. Clean all parts with an EHEIM cleaning brush for pump chambers (order no. 400955) and then reassemble in reverse order. Attention: the shafts in the bearing body – and the superimposed pump-impeller vane – must have a completely easy action, so that the pump starts up without trouble.

Only in cases of emergency: The locking device of the pump head cover can be released with the help of a screwdriver.

When carrying out work in water, disconnect the filter from the mains.

Only for use indoors. Never carry the pump by its cable. Do not bend the cable. If the wiring is damaged, the filter may no longer be used. Re-placement of the heating spiral and the electronic parts may only be carried out by EHEIM customer service offices.