

Read these instructions carefully before starting to install this equipment.

Safety

1. Always pull the plug out of the mains socket when carrying out repair or maintenance work.
2. Never operate the pump while there are people in the water.
3. The pump uses blades to propel the water, and these blades revolve at a high speed. Ensure that you keep your fingers or any other parts of the body away from the revolving blades.
4. Do not use the unit if it or its component parts are damaged.
5. Ensure that the plug is always dry.
6. As a matter of principle, only use standardised shockproof sockets (Schuko, Home Office sockets).
7. To guarantee safety, always use an earth leakage current trip (FI device) with a response threshold of less than 30 mA.
8. If no suitable connection point is available, or if the connection does not fulfil the requirements, please consult a specialist electrical installation company.
9. Never carry or pull the pump by the cable.
10. The pump is only suitable for water up to 35°C.

Purpose of use

This pump is only suited for the use in private ponds and not for commercial purposes. Only use the pump for this specific purpose. The pump is not suited for heavily polluted water, or water with heavy abrasive parts (like sludge).

Warranty

You have made an excellent choice in purchasing this product. The unit has been carefully assembled in compliance with all safety instructions. To ensure the highest possible quality of the product, the supplier has made use of high quality materials, and provides a 2-year warranty from the date of purchase for material and production faults. Please be aware that the supplier cannot accept any claims under the guarantee that arise as a result of errors in the installation or operation, incorrect handling, non-compliance with safety regulations, inadequate maintenance, damage of any kind and the carrying out of any technical modifications of any kind. Guarantee claims can only be dealt with if the complete product is returned postage-paid and is accompanied by a valid proof of purchase. In case of a claim under the guarantee, the supplier reserves the right to either repair or completely replace your unit. Consequential damage is excluded from this guarantee, and the supplier will also provide no guarantee for parts subject to wear, for example, the rotor.

This manual describes the characteristics and the maintenance of an AquaForte pump.

- Vortex impeller
- Thermal protection against over current
- Pump cover removable without tools.
- Suited for waste parts up to 6mm
- Removable impeller makes maintenance easy.
- All electrical parts are casted in resin.
- 10m rubber cable with earthed Schuko plug

Box content: O-series: Pump with 2 x hose tail fittings (diameter 19-25-32-40mm) of which one is 360°adjustable. M & P series: female threaded adapter. HF Series: no fittings.

Installation

The pump is suited for both wet and dry applications (HF pump models are not suited for dry application). In a dry setup the pump must be under water level as it is not self-priming. For dry setup the external strainer house must be removed for the connection of the pipe fittings. Use without water (dry running) will result in irreparable damage. Under water, the pump must take in as clear as possible water. Never place the pump in a muddy area or on sandy pond bottoms. Put the pump on a small pedestal (e.g. a stone). Ignoring these instructions can cause blockage of the strainer house around the pump. Heavily polluted water will cause problems for the rotor to run smooth and the pump performance will decrease. In a worst case scenario the rotor will totally block and the pump will burn out. Complete blockage of the pump strainer house will prevent motor cooling which can cause burn outs.

Maintenance/cleaning

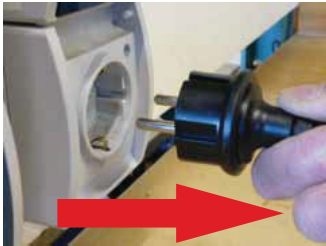
See maintenance instructions. When you find calcium/timescale deposits inside the motor house this implicates that the pumps becomes too warm during use! Calcium/timescale expands above temperatures of 55°C. With sufficient flow the pump is water cooled and cannot reach these temperatures. If, however, the head pressure is too big (too small pipe system, maximum pump head too big, etc) the flow will be reduced which causes insufficient cooling and by this, calcium deposits. In a worst case scenario the calcium/timescale layer will get so thick that it blocks the rotor and the motor will burn out.

DAMAGE CAUSED BY CALCIUM/LIME SCALE IS NOT COVERED BY WARRANTY!

You can remove calcium/lime scale deposits with commercial descaling products or vinegar.

AQUAFORTE HF-SERIE PUMPS

MAINTENANCE INSTRUCTIONS HF-SERIES: dependant on water hardness and internal pump temperatures it might be necessary to remove lime scale deposits from time to time. DAMAGE CAUSED BY CALCIUM/LIME SCALE IS NOT COVERED BY WARRANTY!! Follow these steps for maintenance.



Always remove plug from wall outlet first!



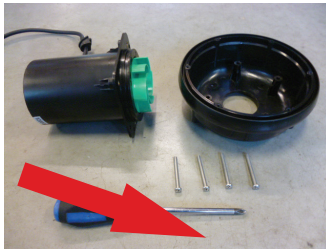
2



Remove screws & open pumpcover.

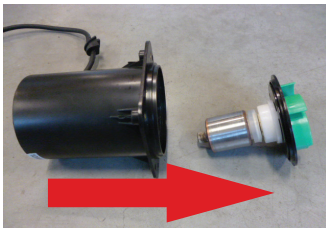


3



Remove the screws from pump house.

Remove rotor from pump house and clean with water and brush.



4



Put Pumphouse in a vertical position and fill with a mild lime scale remover (like cleaning vinegar). Immerse ro-tor in a plastic bowl/container filled with the same lime scale product and leave both for 24hours. After 24 hours rinse off with water and re-assemble pump.

