HeatPumps 4Pools

iFlo Junior **Filter Pump**
Instruction Manual

Important information!

Read these instructions carefully before commencing assembly.
Please ask your specialist retailer for further information or advice on filters, water maintenance and accessories.
We reserve the right to make changes to the product specification and design without advance notification within the context of further technical development.
This device is not designed for persons (including children) with limited physical, sensory or mental capabilities, or who lack the required experience and/or knowledge, unless they are supervised by a person responsible for their safety or have received instructions from them about how the device should be used.
Children must be supervised by an adult at all times to ensure they do not play with the device.

Installation and assembly instructions

You have purchased a simple and easy-to-use device. However, you must follow certain rules and regulations to ensure its safe and correct application. Therefore, please read the following instructions carefully before use!
A skimmer is required for filter system operation, i.e. either an integrated skimmer (installation in the steel wall) or an inserted skimmer (attachment to the steel wall).

Caution! Safety instructions for the use of electrical equipment

1. Electrical installation must be carried out by a licensed electrician. The supply line must beprotected by a residual current circuit breaker 30 mA. Make sure all connections are correct and carried out in accordance with local codes (VDE regulations). We shall not be liable for the consequences resulting from incorrect installation, start-up and electrical installation.
2. Do not bury the pre-wired connecting cable.
3. Make sure that the connecting cable cannot be damaged (by a lawnmower, grass strimmer, etc.). Replace a damaged connecting cable IMMEDIATELY.
4. Children must be supervised by an adult at all times when in the vicinity of the filter system!
5. Never use the filter system if people are actually in the swimming pool.
   If damaged, the connecting cable must be replaced immediately by an appropriately trained and qualified person to prevent the risk of injuries.

Installation location

Install the filter system between the skimmer and the injection nozzle, ensuring sufficient clearance to the wall of the pool.
We recommend you to place the filter system on level concrete slabs, etc. Use a spirit level to ensure the slabs are completely level.
Never install the filter system on low-lying ground or directly on a lawn (risk of flooding or overheating of the filter pump).
If your pool is a fully or partially in-ground pool, it makes sense to install the filter system in a filter shaft right next to the pool.
If the filter system is installed in a filter shaft, make sure the shaft cannot flood. It is recommended to place a layer of pebbles or gravel around the filter shaft to allow existing ambient water and rainwater to drain freely. The ideal situation would be a direct connection to a drain in the sump pit of the filter shaft (or a wet pit pump with a float switch).
Remember that the filter shaft should not be sealed air-tight, as this would result in condensation damaging the filter pump. The filter shaft must be large enough to ensure convenient operation or servicing of the filter system.
Any necessary accessories, such as hoses, hose clips and filter sand (not included), can be purchased from your local swimming pool specialist.

Assembling the filter system

Assemble the filter system at the desired location (transportation of the fully assembled filter system to the installation point is not recommended!).
The filter pump consists of the following parts: (Fig. 1)

1. Pump
2. Valve
3. O-ring seal
4. Clamping ring
5. Filter tank
6. Centre pipe with lateral holder
7. Laterals
8. Drain plug
9. Neck fitting
10. Base plate
11. Pressure hose

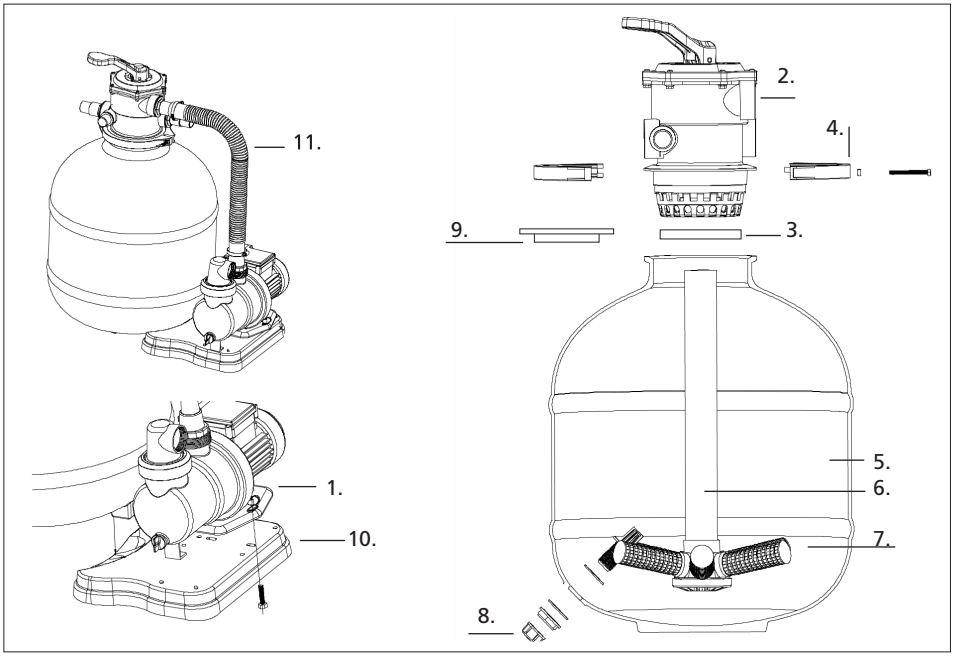
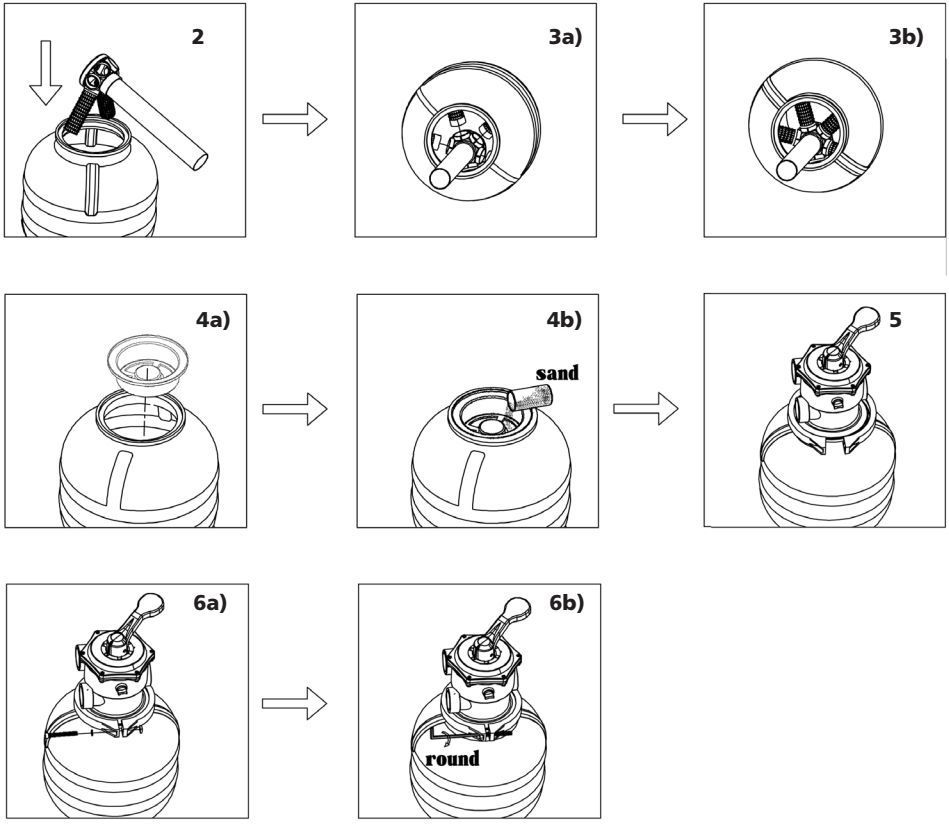


Fig. 1

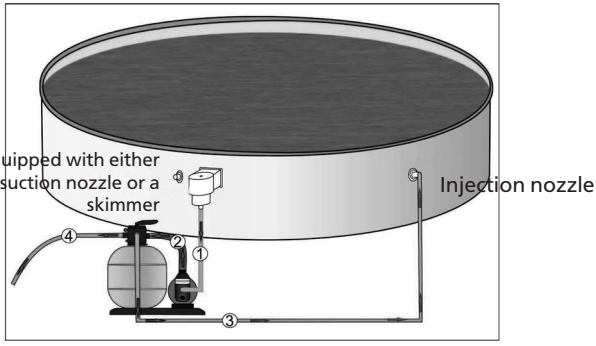
Filter tank

1. Insert the centre pipe including the lateral holder into the tank (Fig. 2) and screw the laterals into the lateral holder (Fig. 3).
2. After assembling all the laterals, position the centre pipe with the lateral holder on the floor of the tank. Make sure the centre pipe is positioned in the middle of the tank and that the drain plug has been screwed in properly.
3. Now place the neck fitting on the tank opening, make sure the centre pipe is positioned in the middle of the tank (Fig. 4).
4. Fill the filter tank approx. ¾ full with filter quartz sand. (Correct grain size: 0.4 – 1.2 mm; quantity: approx. 20 kg) (Fig. 4)
5. Now assemble the top of the filter tank (the valve head) and the filter seal on the rim of the filter tank. Always remove any dirt, e.g. sand, in advance. Use the clamping ring to connect the top of the filter tank (the valve head) to the filter tank. Use the nut and bolt to tighten the clamping ring. (Fig. 5 and 6)
6. Finally, assemble the pump couplings at the valve head. Seal the pump couplings with sufficient Teflon tape.



Hose connections (pump)

1. Skimmer line: Connection from the skimmer coupling to the front coupling at the filter system.
2. Pressure line: Connection from the upper coupling of the filter system to the "PUMP" coupling at the 6-way valve.
3. Return line: Connection from the "RETURN" coupling at the 6-way valve to the coupling at the injection nozzle (pool). Use hose clips to fix all the couplings into position.
4. Backwash: "WASTE" coupling into the drain. Connections are realised with special swimming pool hoses and hose clips.



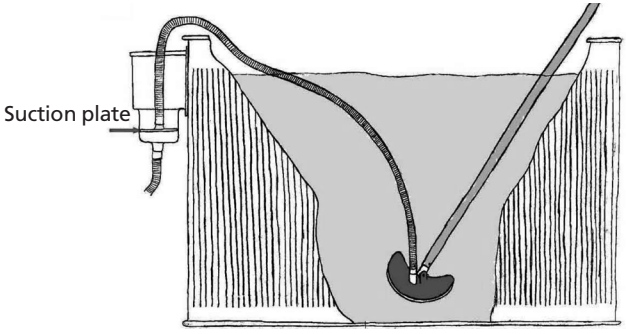
Starting up the filter system

1. Before starting up the filter system, make sure it is located outside the pool and positioned below the level of the water in the pool. Also ensure that all the hose connections are secure.
2. Make sure the swimming pool has been filled with water according to the pool instructions. The water must flow towards the filter pump.
3. The filter system is now de-aerated. If available, slightly open the pre-filter cover of the filter pump until the water flows from the pre-filter bowl (transparent cover with threaded connection on the upper side of the filter pump).
4. Turn the 6-way valve handle to the BACKWASH position. This puts the filter pump into operation. Backwash for approx. 2 – 3 minutes. Subsequently switch off the filter pump and turn the valve handle to the RINSE position. Rinse for approx. 30 seconds. Subsequently switch off the filter pump and turn the valve handle to the FILTER position. It is best to feed backwash and rinse water to the drain.
5. Switch on the filter pump. The filter system is in normal filter mode. We recommend you to operate the filter twice a day for 4 – 5 hours. If you use a pool vacuum to clean the floor of the pool, turn the valve handle to the FILTER position. Backwashing is necessary after using a pool vacuum or if the pressure gauge reading (if available) rises by 2-3 scale marks.
6. RINSE for approx. 30 seconds after each BACKWASH. This helps to settle the sand in the filter tank.
7. If you use a pool vacuum to clean the pool, you can also turn the 6-way valve handle to the WASTE position in order to remove any impurities or dirt from the pool (e.g.: algae) which would otherwise pass through the filter sand.

Caution! Do not operate filter systems without water!
The water acts as a coolant – warranty claims will not be accepted for filter systems which have been operated without water!
Important information! Always switch off the filter pump before changing filter functions at the valve head!

Vacuuming the floor of the pool

Turn the valve handle to the FILTER position when using a pool vacuum to clean the floor of the pool. Connect the pool vacuum to the vacuum hose at the skimmer. Do not switch on the filter pump until the pool vacuum has been connected properly and is ready for operation.
Important: Fully fill the vacuum hose with water to ensure the filter pump cannot draw air through the system. Then switch on the pump. If air enters the filter system, switch off the filter pump and de-aerate the pool vacuum.
Slowly vacuum the entire floor of the pool with the pool vacuum brush taking care not to disturb the water.
A skimmer with a basket is advantageous for filter systems without a pre-filter!



Possible causes of poor filter performance

Cause	Remedy
Sand is dirty	Backwash (clean the sand)
Pump draws in air (air bubbles at the inlet side)	Hoses are defective. Re-tighten hose clips.
Insufficient water entering the skimmer or pump.	Check the level of the water and, if necessary, add water; check the suction line for soiling.
Skimmer basket dirty.	Clean the skimmer basket.
Pre-filter strainer of the filter pump dirty.	Clean the pre-filter strainer.
In the unlikely event of further problems, please contact your authorised dealer!	

During the winter

At the end of the swimming pool season, disassemble and completely drain the filter system and/or hoses. Open the drain plug and completely drain the filter tank and the filter pump.
Open the filter tank and empty the filter sand. Check whether the filter sand is still ok (not stuck or clumped together) and clean it.
Filter systems which are installed outdoors must be placed in a frost-proof room during the winter.
Warranty claims will not be accepted for frost damage.

Care instructions

Visible dirt is removed by the filter system. However, this does not apply to algae, bacteria and other microorganisms which also pose a threat to clear, clean and healthy swimming pool water. Special care products are available to prevent and remove algae, bacteria and other microorganisms from pool water, guaranteeing clean and healthy water for bathers.
Disconnect the device from the power supply prior to cleaning. Only use a damp cloth to clean the housing. Subsequently clean the surfaces with a dry cloth.

Correct disposal

This product may not be treated as household waste. Always handover old devices to an applicable collection point for the recycling of electrical and electronic equipment.
Old filter sand must also be handed over to an applicable collection point for correct disposal!

To ensure clear and healthy pool water, use the filter twice a day for 4 – 5 hours and backwash the filter for 2 – 3 minutes at least once a week, and remember to vacuum the floor of the pool at regular intervals!

Please ask your local swimming pool specialist!

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