

FILTRINOV FB12 Self Contained Single Piece Filtration Unit



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FILTRINOV FB12 Self-Contained Single Piece Filtration Unit



Specifications

- **Product Name:** FB 12 Filtration Unit
- **Type:** Self-contained single-piece filtration unit
- **Voltage:** 230 Volts AC
- **Filtration Capacity:** Dual filter cartridge housing incl. 2 leaf baskets
- **Features:** Multi-directional, high-flow nozzle, LED light (optional), Two suction skimmers

Product Usage Instructions

Installing the Filtration Unit

Follow the installation instructions provided in the manual. Ensure proper drainage around the pool leading to a relief well with a basement sump pump.

Technical Description of the Filtration Unit

The filtration unit consists of in-ground and submerged sections. Key components include a filter pump, control panel, leaf baskets, filter cartridges, skimmers, and optional LED light.

Filtration Unit Power Supply

Make sure to connect the unit to a power supply of 230V 50-60Hz. Use a 30mA differential protection system and a C16 thermal magnetic circuit breaker for safety.

LED Light

Your unit may come with a standard white LED light. Optional multicolour LED lights with various color options and sequence programs are also available.

Setting the Timer

Follow the sequencing principle of minimum 1 hour of downtime after 4 hours of operation. Refer to the attached

instructions for setting the timer.

Starting the Filtration Unit

When the water level reaches the skimmers, start the filtration unit:

1. Prime the pump by filling it with water.
2. Screw in the Pool earth.
3. Switch the filtration unit to manual mode to start the pump.

It is recommended to remove the drain plug after installation.

FAQ

- **Q: Do I need to test the residual current device manually?**
 - **A:** Yes, it is essential to manually test the residual current device (maximum 30 mA) as a safety measure for cutting power to pool appliances.
- **Q: What should I do if the LED light malfunctions?**
 - **A:** Refer to the manufacturer's guide for troubleshooting steps related to the LED light functionality.

Installation and operating instructions.

Please read it carefully and retain for future reference.



RECOMMENDATIONS

- TO PREVENT WATER INGRESS INTO THE NON-WATERTIGHT TANK OF THE FB UNIT WE ADVISE YOU TO INSTALL A DRAIN ALL AROUND THE POOL THAT RUNS INTO A RELIEF WELL CONTAINING A BASEMENT SUMP PUMP.
- CLEAN BOTH CARTRIDGES AT REGULAR INTERVALS
- ALWAYS LOCK THE LID SHUT AFTER COMPLETING MAINTENANCE WORK IN THE TANK
- DO NOT USE FLOCCULANTS OR «MULTIFUNCTIONAL» CHLORINE

These installation instructions are an integral part of the product and must be given to the user. This booklet should be retained for reference.

- Check the condition of the contents after unpacking the filtration unit.
- Before wiring up the unit, make sure the manufacturer's data is compatible with the planned system and does not exceed the maximum permitted limits of the particular item.
- Always cut the electrical power from the main consumer unit before carrying out any maintenance, handling or repair work.

Any repair work must be carried out by an authorised technical support service using only OEM spare parts. Failure to comply with the above requirements may cause unsafe operation of the filtration unit and will void the manufacturer's warranty. A high-sensitivity, 30 mA cut-off device must be fitted at the head end.

TERMS AND CONDITIONS OF DELIVERY :

All items, including when sold postage and packing paid, are transported at the consignee's risk. The consignee must record any reservations regarding damage in transit in writing on the CARRIER'S delivery note and provide confirmation thereof within 48 hours by registered letter sent to the CARRIER.

VOLTAGE: before operating, check that the appliance voltage indicated on the data plate is the same as the mains voltage (usually 230 Volts AC).

FOREWORD :

Thank you for purchasing this FB 12 filtration unit and for your trust in our company. You can rest assured that every effort has been and will continue to be made to bring you complete satisfaction. This product has been carefully designed with your safety in mind. Your new filtration unit comes with the same features as a traditional filtration system.

Reminder : a residual current device (maximum 30 mA) must be fitted upstream, and manually tested, as a safety measure to cut the low-voltage power to pool appliances.

TECHNICAL DESCRIPTION OF THE FILTRATION UNIT

1.



Filter access lid.

2. Multi-directional, high-flow nozzle.

3. LED light (optional)

4. Dual filter cartridge housing incl. 2 leaf baskets.

5. Two suction skimmers.

6. The in-ground section containing:

- Pumps
- Control panel (if light fitted)

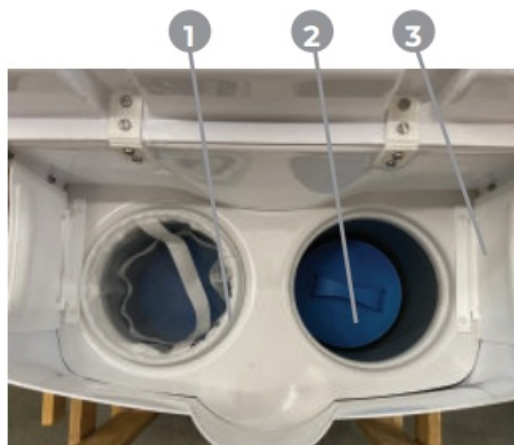
7. Removable, lockable lid.

IN-GROUND SECTION



1. Filter pump
2. Control panel (optional)
3. Pool light transformer (optional)
4. Remote control unit

SUBMERGED SECTION

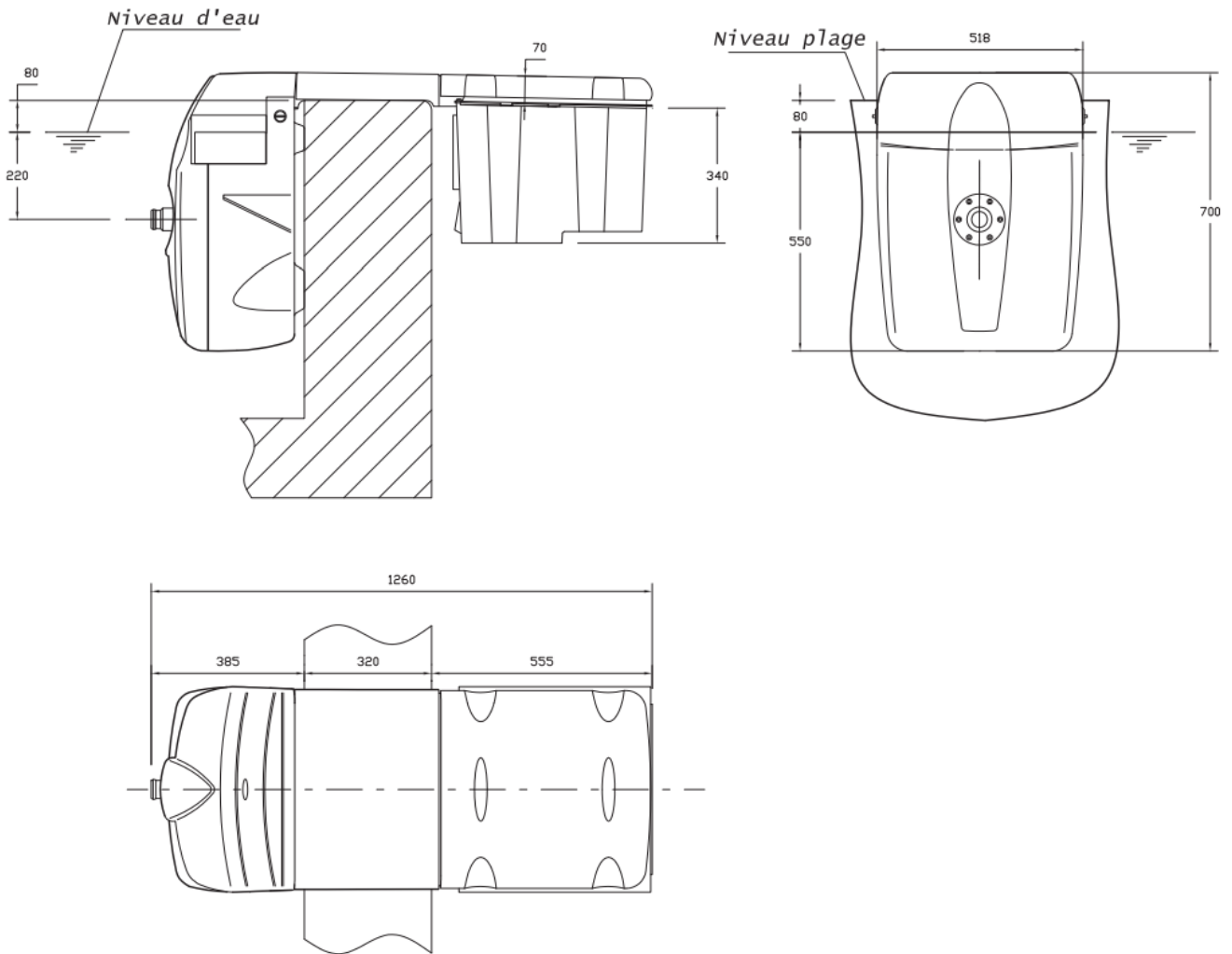


1. 2 Leaf baskets
2. 2 Filter cartridges
3. 2 Skimmers

INSTALLING THE FILTRATION UNIT

- Dig a pit into which the filtration unit tank will be placed.
- Remove the filtration unit from its packaging and place it carefully in position straddling and resting on the pool structure.
- Make sure the front, pool-side of the unit is positioned fully perpendicular to the pool wall.

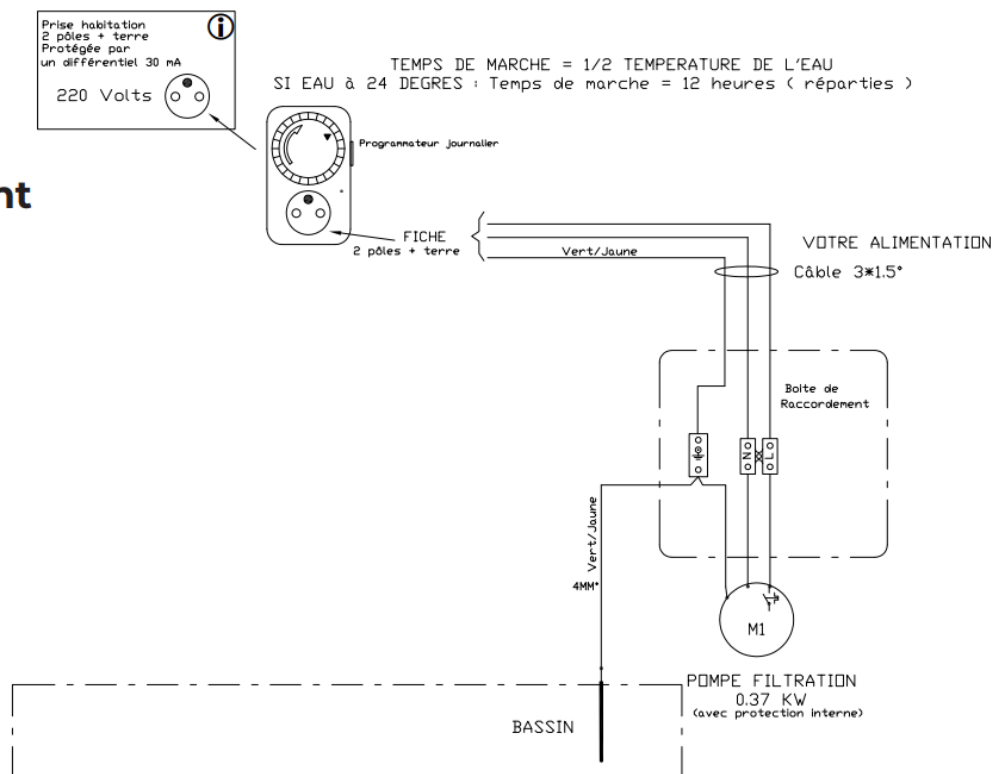
- Feed in the electrical wiring and then fill in the pit with gravel all around the filtration unit tank.



FILTRATION UNIT POWER SUPPLY

The filtration unit should be connected to an insulated electricity supply running directly from the main consumer unit with a 16A fuse or circuit breaker, protected by a 30mA RCD (not included). Use a 3-wire cord, earth-live-neutral, with a 1.5 or 2.5 mm² section if less than 30 linear meters.

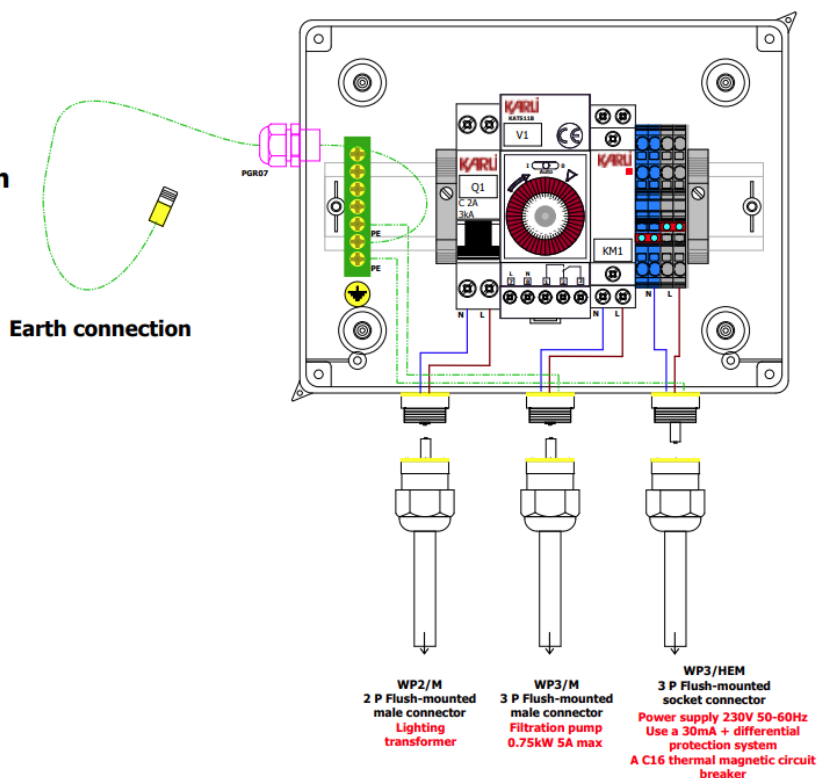
• FB without light



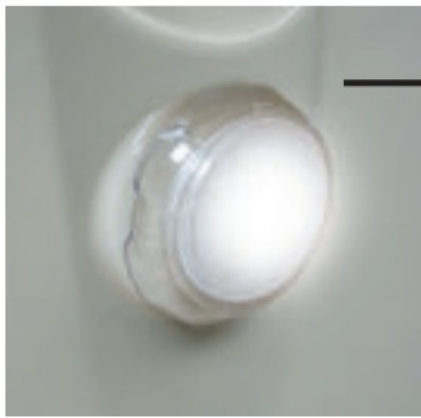
FB with light

• FB with light

Front-mounted filtration and lighting controls

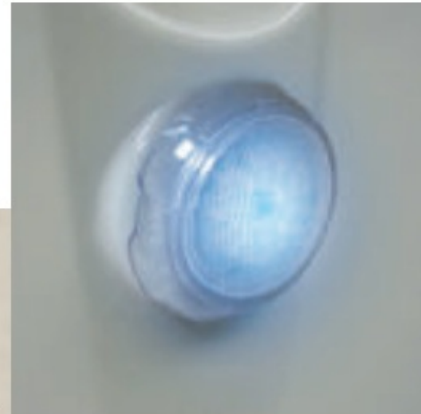


LED LIGHT



Standard

Optional



Your filtration unit may include a white LED light as standard.

A MULTICOLOUR LED light option is also available in 11 non-animated colors incl. white and with 5 sequence programs (remote control included)
(Manufacturer's guide included)

SETTING THE TIMER

Continuous mode

(24-hour filtration) Move the filter switch on the outside of the electrical panel to «Manual».

Auto mode (timed filter operation)

Move the filter switch on the outside of the electrical panel to
«**Automatic**».

Turn the clock hands to set the exact time relative to the pointer (triangle) on the right of the clock.
Push the segments outwards to set the scheduled «On» times.

Sequencing principle:

Minimum 1 h of downtime after 4 h of operation.

See the instructions attached to the panel

STARTING THE FILTRATION UNIT



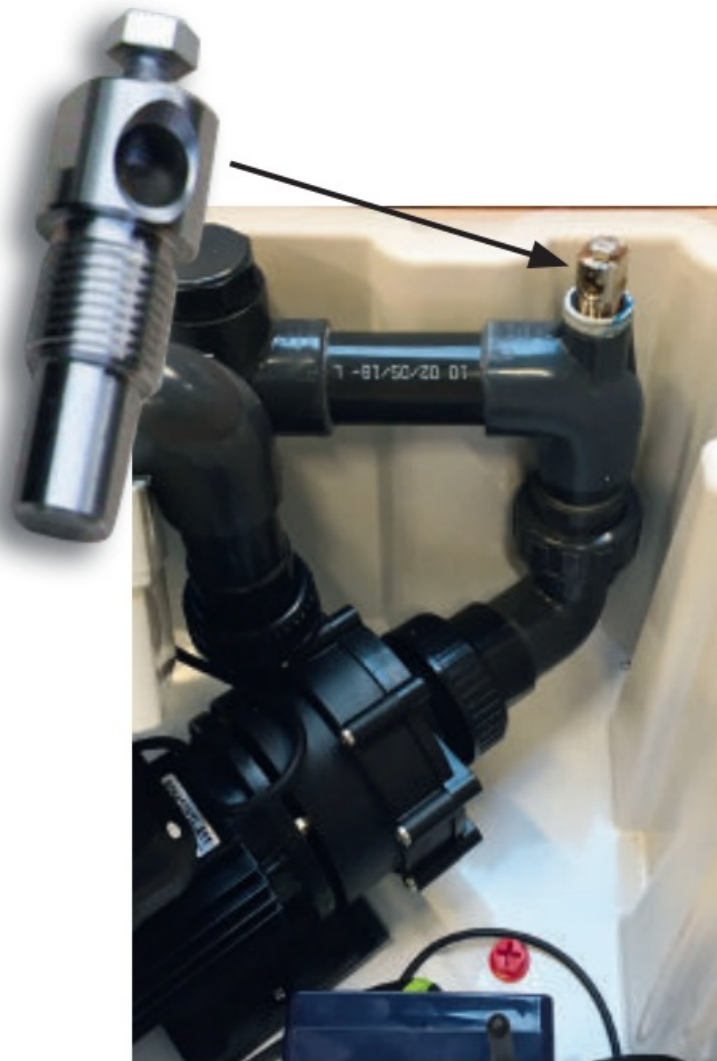
When the water in your pool is at of the level of the skimmers, operate the filtration unit for the first time as follows :

1. Prime the pump by filling it with water through the hole provided
2. Screw in the Pool earth
3. Put the filtration unit in manual mode to start the pump

You are strongly advised to unscrew and remove the drain plug from the tank when you have finished installing the filtration unit.

Repeat the above steps if the priming procedure is not working after 2 minutes.

POOL-EARTH / FUNCTIONAL EARTH



It is vital that the pool be earthed in order to remove stray currents from the water. Stray currents are not dangerous to people, but they do electrolyze the metal components in the pool, which increases corrosion. They can also disrupt the treatment probes, resulting in incorrect amounts of product being injected. This is why FILTRINOV has included a pool earth with these products. Screw it into the threaded attachment point provided and connect it to the earth rod with a Ø 6 mm copper braid earth strap (parts not included). A hole will have to be drilled in the tank to route the braid through the packing gland provided.

FILTRATION: OPERATING PRINCIPLE

Water from the surface of the pool is drawn in by the skimmers and sent through the filter cartridges, where it is cleaned. It then travels on to the pump, which discharges it through the return nozzle back into the pool.

The filter cartridges must be washed every few complete filtration cycles.

The cartridge should be cleaned at least once a week and whenever the suction cleaner has been used. To clean the cartridge, remove the basket, lift out the cartridge and gently hose it down. Refit the cartridge once it is clean.

Your FB includes a cartridge housing at the bottom of the filter holder to fit the cartridge. Turn the cartridge a quarter turn downwards to slot it into place in the filter holder. Remember to fit the basket and its pre-filter.

All FILTRINOV filtration units are checked and tested with the utmost care and subject to FILTRINOV'S stringent quality controls.

The use of non FILTRINOV-approved parts and consumable items shall render the pump and hydraulic system

warranty void.

EASY FILTER bags and cartridges are not approved by FILTRINOV. Persistent clogging and risk of permanent damage to the pump.

The filtration time should be increased as the water temperature rises :

- 12° to 16° = 6 hours
- 16° to 24° = 8 hours
- 24° to 27° = 10 hours
- 27° to 30° = 12 to 14 hours or more

Sequencing principle: Minimum 1 h of downtime after 4h of operation.

VACUUM POINT FOR MANUAL SUCTION CLEANER OR 10 HYDRAULIC AUTOMATIC CLEANER

- Connect one end of the hose to the suction cleaner
- Hold the suction cleaner by the handle and insert it into the pool,
- Gradually insert the hose into the water until the water pushes out the air (tip : you can fill the hose with water by placing its tip in front of the return nozzle with the unit running) ;
- Feed the other end of the hose into the skimmer mouth and attach it to the skim vac plate that seals off the basket ;
- Place the other (plugged) skim vac over the other basket in order to block suction from the second skimmer and maintain best cleaning performance ;
- Only use when using the suction cleaner



The cartridges should be cleaned at least once a week and whenever the suction cleaner has been used. To clean the cartridges, remove the baskets, lift out the cartridges and gently hose them down. Refit the clean cartridges and the baskets.

OPTIONAL BY-PASS (3-way valve)



TO POOL
RETURN



TO HEAT PUMP

The by-pass consists of a 3-way valve and a branch Tee. You are advised to seal the pipe entries in order to prevent water from getting into the tank.

Your heat pump is connected to the filtration unit by a Ø 50 PVC pipe.

- Place the 2 shutoff valves at the inlet and outlet of the heat pump so that it can be isolated during winter storage.

WINTERISING & PUMP DISASSEMBLY

Active Winterising

An actively winterized pool continues to operate at a slower-than-normal rate throughout the wintertime. This is the recommended winterizing procedure in less cold regions. If you live in a harsher winter climate, you should choose to passively winterize your pool instead.

- First clean the pool structure, the water line, baskets, and cartridges.
- Next, shock the pool with chlorine.
- Run the filtration system non-stop for at least 12 hours.
- Then reset your timer to run the filtration system for 30 minutes every 3 hours (do not be afraid to increase the running time if the temperature is significantly below zero).
- Your pool will not require any more product treatments for the whole winter. Just monitor the water's pH level and adjust if necessary.
- Check and clean the baskets and cartridges at regular intervals.
- We also recommend that you use winter floats in your pool.
- You can also cover your pool with a winter cover or tarp, although this is not mandatory.

Passive winterizing and pump disassembly

Passive winterizing involves shutting down the filtration unit entirely.

- First clean the whole of the pool and its equipment (floor and walls, water line, baskets, cartridges, etc).
- Check the water's pH level and adjust if necessary.
- Shock the pool with a chlorine treatment.
- Run the filtration system non-stop for at least 12 hours.
- Protect the filtration system from frost.

TROUBLESHOOTING

FILTERS/PUMPS/CCS

PROBLEM: Low-pressure flow and/or air bubbles in the pumped water flow

| CAUSE | SOLUTION |
|----------------------|---|
| Cartridges | <ul style="list-style-type: none">• SITUATION 1: The cartridges are dirty but not clogged. Clean the cartridges at more regular intervals (once every fortnight)• SITUATION 2: Renew the cartridges if they are clogged• SITUATION 3: If you are using a flocculent or anti-algae treatment, lower the water level by 20 cm and renew the cartridges |
| Leaf baskets | Clean the debris from the baskets at regular intervals and clean or renew the Netskims (skimmer socks/nets) |
| Pump | Clean the pump housing to remove any foreign matter and unblock the turbine |
| Water level | Check the water height, making sure it is $\frac{3}{4}$ of the way up to the skimmer niches |
| Priming | <ul style="list-style-type: none">• Check that the pump has been primed properly• If it hasn't, remove the delivery system at the pump outlet, fill the pump with water and jolt-start the unit again on and off in quick spurts (5 seconds on, 1 to 2 seconds off); 3 or 4 times should be enough |
| Position of the unit | <ul style="list-style-type: none">• The 4 contact points on the rear of the side that is submerged in the pool should be hard against the pool wall• This is only possible if you ensure that the tank section is perfectly horizontal and supported sufficiently high up to avoid strain that would pull the contact points away from the pool (see the installation guide) |

PROBLEM: The pump does not start

If there is no noise :

| CAUSE | SOLUTION |
|---|---|
| Power supply | <ul style="list-style-type: none">• Check the wiring from the pump to the unit's electrical enclosure• Check the wiring from the electrical enclosure to the mains power supply• Check the 30 mA circuit breaker at the line end |
| Pump switch | <ul style="list-style-type: none">• Check the wiring to the pump switch• replace the switch if it is not working |
| Front-mounted 3-position switch (Auto/O/Manual) on the electrical enclosure | <ul style="list-style-type: none">• Put the switch in Manual mode• If the pump still does not work, check the connections at the wire terminals behind the switch inside the enclosure• If the problem is still not resolved, contact your retailer to have the switch replaced |
| Timer | <ul style="list-style-type: none">• Check the timer wiring inside the electrical enclosure• Check that the 3-position switch (Auto/O/Manual) is turned to Auto mode• Also turn the switch in the bottom left corner of the timer dial face to Auto• Use the timer segments to set the filtration to start and stop at different periods• If the filtration does not start, the timer is faulty and will have to be replaced |

If the power unit is making a noise :

| CAUSE | SOLUTION |
|-----------|--|
| Turbine | Use a large flat-blade screwdriver at the rear and in the centre of the pump to try and release the turbine and get it turning |
| Condenser | Replace the condenser |

PROBLEM : The pump cuts out and starts up again later

| CAUSE | SOLUTION |
|------------------------|---|
| Overheating power unit | <ul style="list-style-type: none">To prevent the pump and its thermal circuit breaker from overheating, we advise you to programme your filter system to run for no more than 3 or 4 hours at a time with a 1-hour break between operating periods. <p>Example : Water temperature: 24°C; required filtration time: 12 hours. We recommend that you programme the filtration unit to work in stages from 7 am to 10 am then 11 am to 2 pm, 3 pm to 6 pm, and finally from 7 pm to 10 pm.</p> <ul style="list-style-type: none">We also recommend that you clean the cartridges. <p>Excessively dirty cartridges significantly reduce the flow of water into the pump, causing it to overwork and overheat.</p> |

PROBLEM : The pump does not switch off

| CAUSE | SOLUTION |
|--|--|
| Crystal tube | The crystal tube along the inside the tank has come loose from its pneumatic switch after the side-mounted pneumatic button was used to start the CCS. Re-attach the tube. |
| Timer | <ul style="list-style-type: none">Make sure that not all the timer segments are pushed out, causing the filtration system to run non-stop. If they are, push some back in to set OFF periods and then try to turn the dial forward in time by hand to an off period in order to stop the filter running.If the above step fails to switch the pump off, turn the front-mounted 3-position switch (Auto/O/Man) on the enclosure to O. The pump will stop, but the timer is not working and will have to be replaced. |
| Front-mounted 3-position switch (Auto/O/Man) on the electrical enclosure | <ul style="list-style-type: none">Turn the switch to OIf the pump is still running, check the connections at the wire terminals behind the switch inside the enclosure.If this still fails to switch the pump off, contact your retailer to have the switch replaced, and cut the mains electrical power to the filter unit. |

LIGHTING


PROBLEM: The pool light does not come on.

| CAUSE (carry out the checks in the order shown) | SOLUTION |
|--|---|
| Lighting circuit breaker | <ul style="list-style-type: none"> • Check whether the circuit breaker has been tripped and is still open • If the circuit breaker has not stayed open, it is not working and will have to be replaced |
| Front-mounted 2-position (I/O) switch on the enclosure | <ul style="list-style-type: none"> • Check that the switch is turned to I • Check the connections at the terminals behind the switch inside the enclosure. |
| Transformerr (220V/12V) | <ul style="list-style-type: none"> • Check the transformer's output voltage (12V) • If the transformer's output voltage is zero, it is not working and will have to be replaced. |
| Remote control system unit (blue enclosure with a black antenna, inside the tank) | <ul style="list-style-type: none"> • Open the housing • Press the small black button inside the housing; a small red LED next to it should come on • If nothing happens, the remote control system unit is not working and will have to be replaced • If the red LED comes on, configure the remote control (see paragraph 6 of the remote control unit instructions) |
| Remote control | <ul style="list-style-type: none"> • Open the remote control battery compartment and check for oxidation, etc, the condition of the battery and that it is fitted the correct way round. • Configure the remote control (see paragraph 6 of the remote control unit instructions). • Look at the top of the remote to see whether it comes on when you press the button on the left. • If nothing comes on, the remote control is not working and will have to be replaced. |
| Light | <ul style="list-style-type: none"> • If none of the above items are found to be at fault, it is the light that does not work. • It will have to be replaced using a niche (feed-through) system. |

PROBLEM : The light is blinking.

| CAUSE | SOLUTION |
|-------|--|
| Light | The light is reaching the end of its service life or is not/no longer watertight. Replace the light using a niche (feed-through) system. |

Documents / Resources

| | |
|--|--|
|  <p>FILTRINOV SELF-CONTAINED SINGLE-PIECE FILTRATION UNIT Please read carefully and retain for future reference.</p> <p>FB12 RANGE</p> <p>FEATURES: • 100% self-contained • No need for external • No need for external • No need for external</p> | <p>FILTRINOV FB12 Self Contained Single Piece Filtration Unit [pdf] Instruction Manual FB12, FB12 Self Contained Single Piece Filtration Unit, Self Contained Single Piece Filtration Unit, Single Piece Filtration Unit, Piece Filtration Unit, Filtration Unit, Unit</p> |
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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