



Drukfilter – Filtre a pression

Druckfilter – Pressure filter

VarioPress Pro



Gebruiksaanwijzing – Instructions d'utilisation
Bedienungsanleitung – Operation instructions

Zuiveren – Purification – Klären – Purifying

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Wij danken u voor de aankoop van dit product en wensen u veel waterplezier.

Nous vous remercions d'avoir acheté ce produit et vous souhaitons beaucoup de plaisirs aquatiques.

Vielen Dank für den Kauf dieses Produkts und wünschen Ihnen viel Spaß.

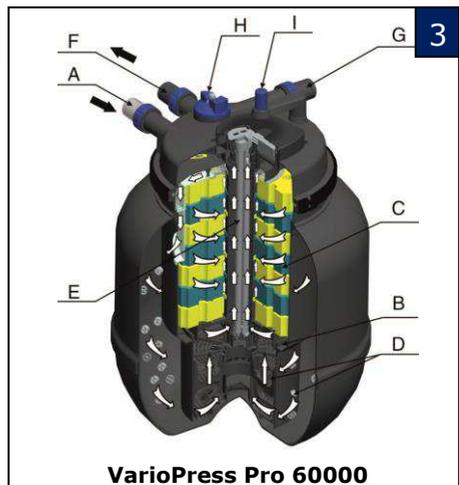
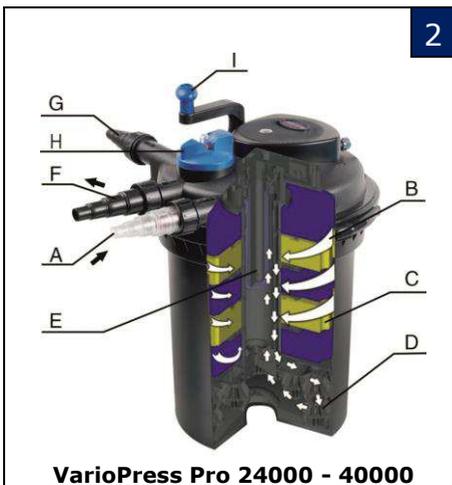
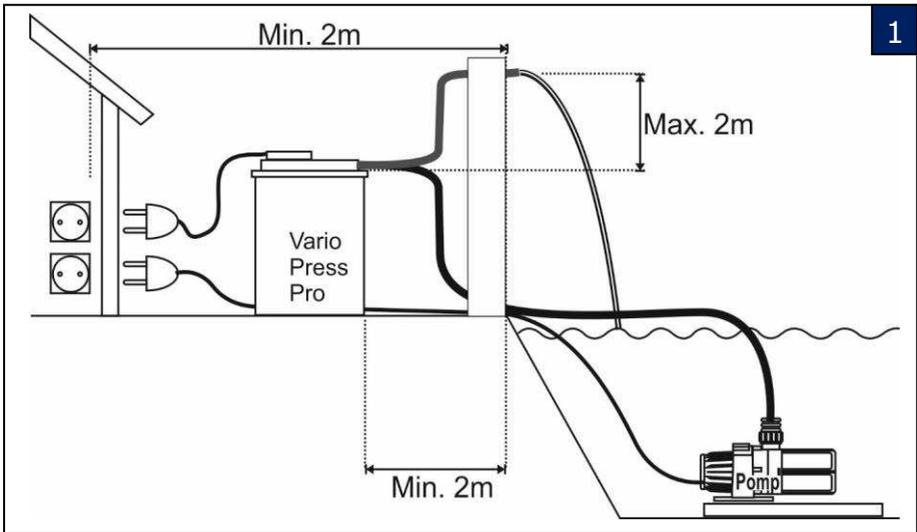
We thank you for purchasing this product and wish you lots of water fun.

Inhoudsopgave – Table des matières – Inhaltverzeichnis - Index

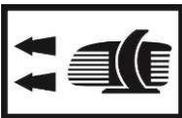
Specificaties – Spécifications – Technische Daten – Specifications	2
Afbeeldingen – figure – Bilder – Pictures	3
Gebruiksaanwijzing (NL)	8
Instructions d'utilisation (F)	16
Bedienungsanleitung (D)	24
Operation instructions (GB)	33
Garantiecertificaat – Certificat de garantie – Garantie-Zertifikat Warranty certificate	40

Specificaties – Spécifications – Technische Daten - Specifications

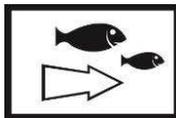
Type	Q max. l/h	H max. m	Volt/Hz	UV-c W	 in m	 in inch	 Ø in mm	 Ø in mm	Art.nr. Art.n°
24000	12000	5	230/50	36	5	2"	25-32-40-50	32-50	201102
40000	13000	5	230/50	55	5	2"	25-32-40-50	32-50	201103
60000	15000	5	230/50	55	5	2"	25-32-40-50	32-50	201104



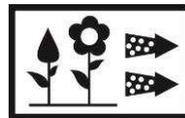
Symbolen – Symboles – Symbole - Symbols



Aanvoerslang/buis
Tuyau d'alimentation
Zulaufschlauch/Rohr
Supply hose/pipe



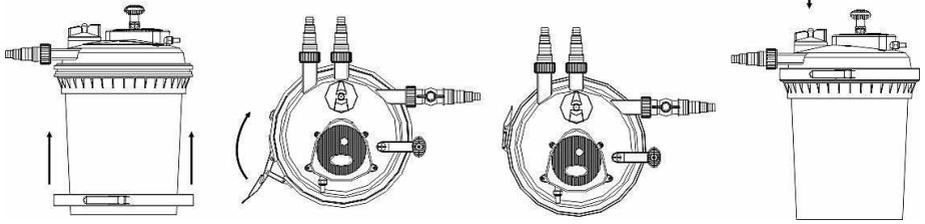
Retourslang/buis
Tuyau de retour
Rücklaufschlauch/Rohr
Return hose/pipe



Vuilwaterslang/buis
Tuyau des eaux usées
Abwasserschlauch/Rohr
Waste water hose/pipe

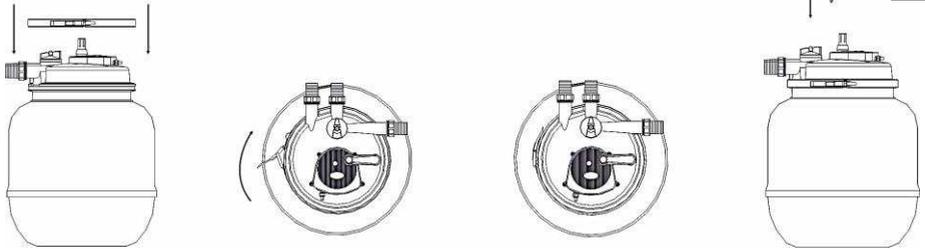
VarioPress Pro 24000 - 40000

5

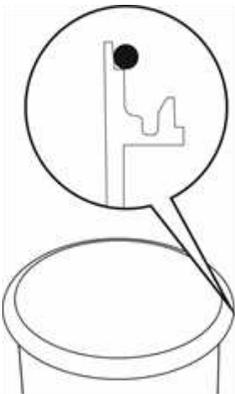


VarioPress Pro 60000

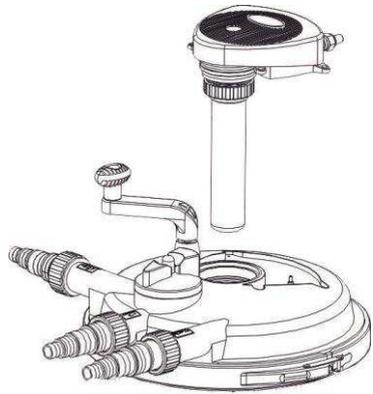
6



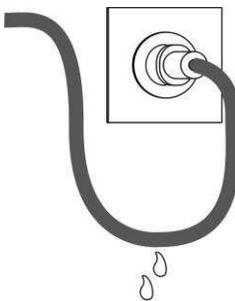
7

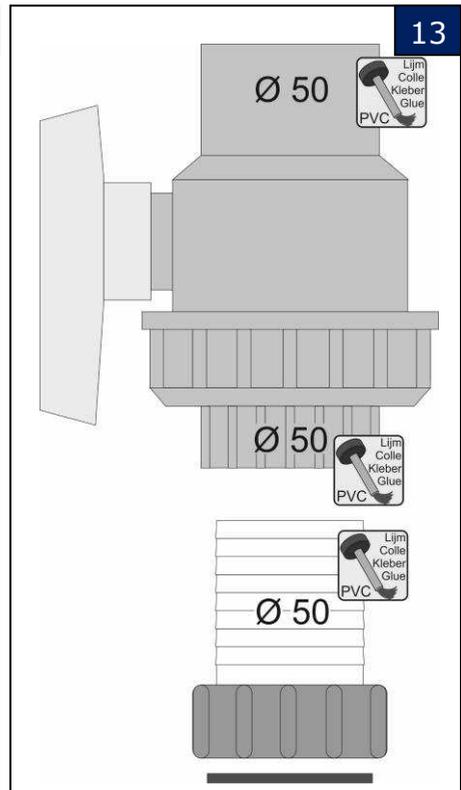
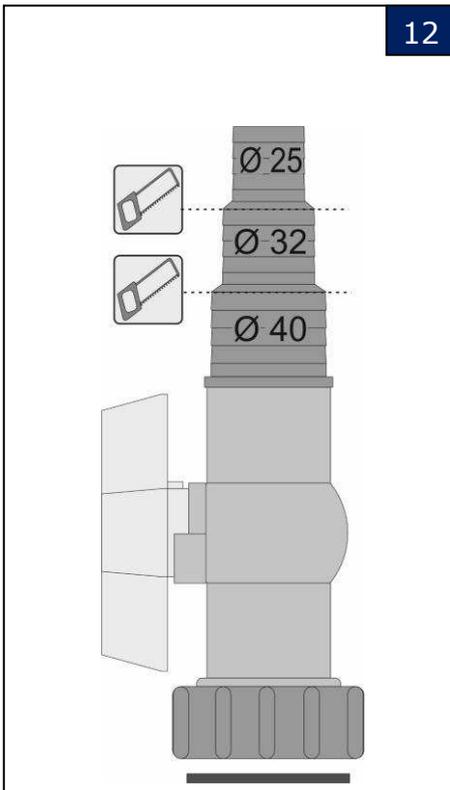
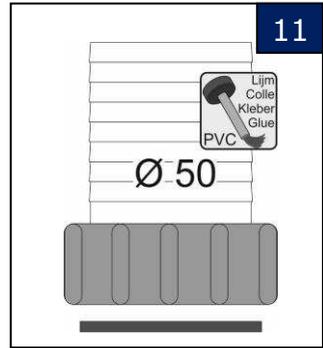
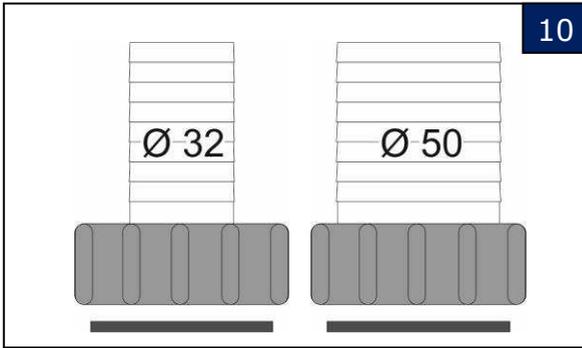


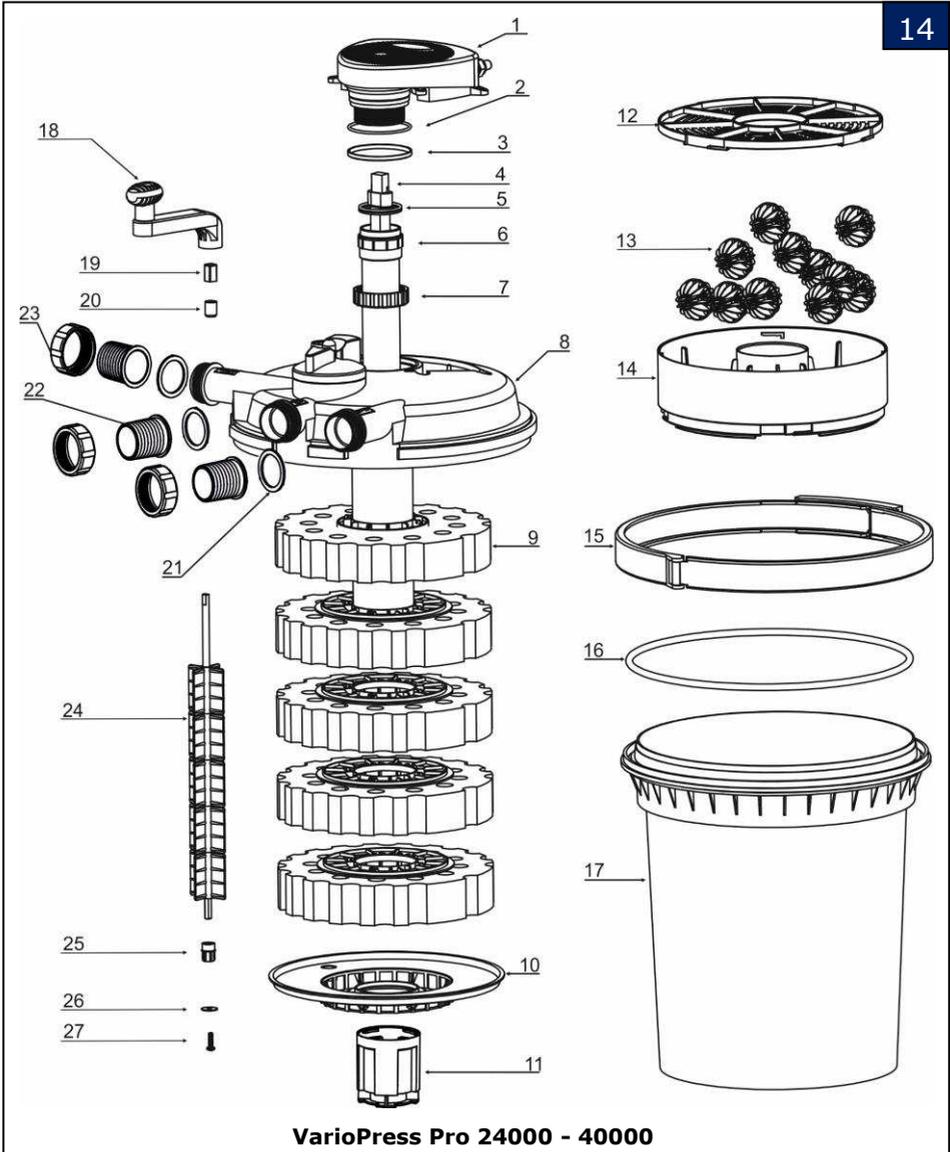
8



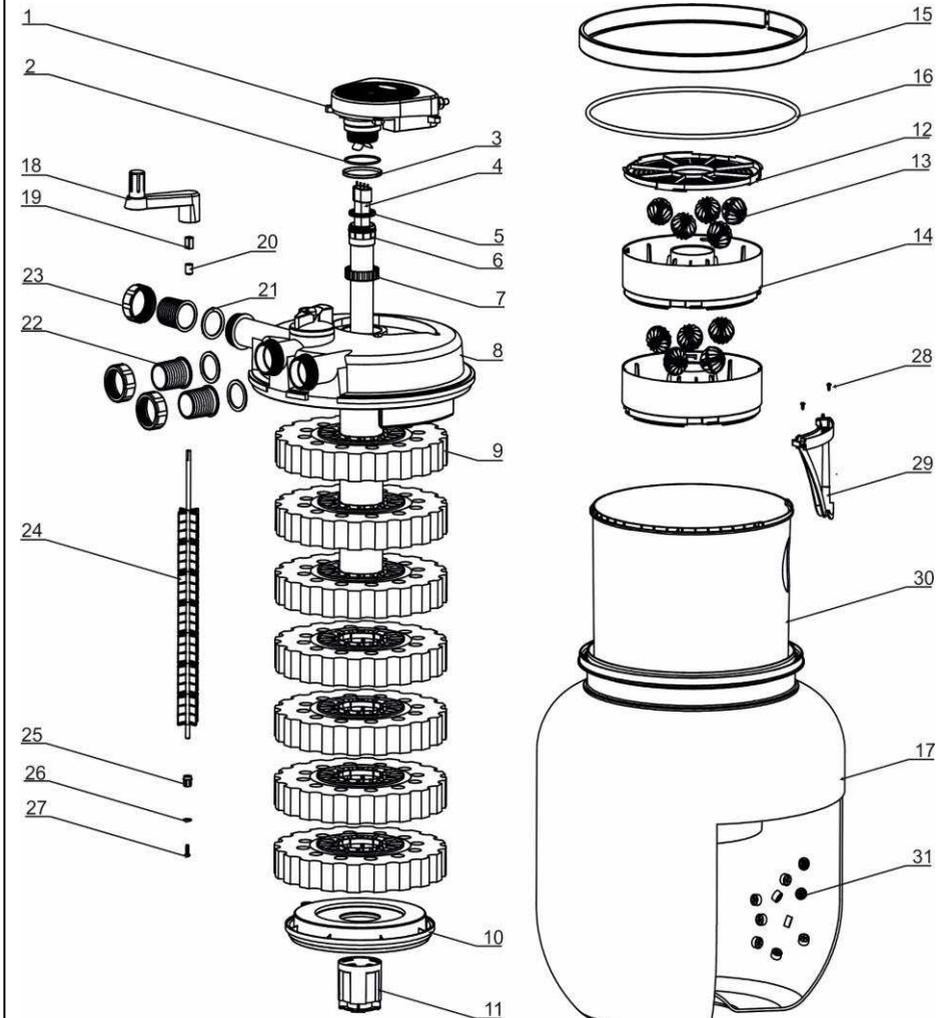
9







VarioPress Pro 24000 - 40000



VarioPress Pro 60000

**Persons who have not read and understood the operating instructions should not use the pressure filter!**

This device is not intended for use by persons or children with physical, sensory or intellectual impairments, or if lacking in experience and or know-how, unless they are under supervision or have been trained in the use of the device by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the device.

Intended use

The VarioPress Pro is a pressure filter with built-in UV-C for mechanical and partial biological filtration of the pond water of standard ponds with temperatures from +4 ° C to 35 ° C. The pressure filter is designed for private use for cleaning garden ponds with or without fish (no koi). A pump is necessary for the operation of the pressure filter, which pumps the pond water through the pressure filter.

**Scope of application:**

If there are people in the water, the pressure filter is not allowed to operate! (disconnect pressure filter from the power supply.)

It may not be used in or near swimming lakes or swimming pools!

**Safety instructions**

- **Attention! UV-C radiation is harmful to eyes and skin!**
- **Only use the UV-C lamp of the pressure filter in the closed device. The operation of the lamp is easy to observe through the transparent inspection glass.**
- **Warning!** This pressure filter may only be used in ponds if the electrical system meets relevant statutory requirements.
 - If in doubt, consult a qualified installer.
- **The pressure filter may only be connected to a system with a ground-fault circuit interrupter (30 mA) and earthed power outlet.**
- The power supply and current type must match the data on the model tag or as shown in the table on page 2.
- The pressure filter must be set up at least 2 meters from the waterfront. (Refer to illustration 1.)
- Place the power outlet in a moisture-free area, at least 2m from the water's edge (Refer to illustration 1.)
- Check the power cord, plug and pressure filter for damage before using the pressure filter.
- **Important:** do not use if the cord, plug or pressure filter are damaged. Go back to the dealer to assess the damage.
- Do not move or hang the pressure filter by the power cord.
- Keep the plug dry. To prevent water from running from the cord to the plug, suspend the cord in a U-shape (Refer to illustration 9.)
- When working on the pressure filter, always disconnect the pressure filter and take off the pump outlet connected to the pressure filter, so that the power supply to the pressure filter and pump is disconnected.
- The UV-C lamp of the pressure filter may only be switched on if it is completely filled with water and if there is an adequate flow of water through the pressure filter.



- **Important:** If there are people in the water, the pressure filter is not allowed to operate.
- The pressure filter may only be set-up out of the water. The pressure filter has a protective class IPX4.
- Only pumps with a maximum pressure of 6m (0.6 bar) may be connected.
- Make sure that water can always flow into the pressure filter, never close all the outlets of the pressure filter before the pump is switched off.
- Clean the drain hoses and filter regularly to prevent clogging, as this may cause the pressure in the filter to rise.
- The maximum discharge head after the pressure filter must not exceed 2m. (Refer to illustration 1.)
- Connect hoses designed to work at a minimum pressure of 0.5 bar.
- Protect the pressure filter against strong sunlight.
- The pressure filter is only suitable for fresh water, without chemical additives and with a minimum temperature of 5 ° C and a maximum temperature of 35 ° C.
- Position the pressure filter on a firm and level surface.
- The VarioPress Pro 24000 and 40000 pressure filters are to be partially dug in, up to the lid of the pressure filter.
- To avoid running the risk of water freezing in the pressure filter, turn it off and run it empty. Store the pressure filter frost-free or ensure that it can no longer fill up with water.



Operating pressure filter (illustration 2, 3 and 4, page 3) The pressure filter with integrated UV-C unit is a closed filter system for mechanical and biological filtration of the water in the garden pond.

- A. Inlet; connect the supply hose or PVC pipe here that is connected to the outlet side of the pump. The maximum pump pressure should be 6m (0.6 bar).
- B. Vortex; floating particles and deposits are deposited by centrifugal and gravitational forces.
- C. Mechanical filtration; dirt particles are trapped on the filter foam, as the water passes through the filter.
- D. Biological treatment; by micro-organisms that settle on the open pores of the filter foam and bio-balls. The yellow and blue filter foam with different sizes and densities, create different water flow rates. In the areas with strong currents (blue filter foam), where micro-organisms convert ammonia to nitrate through nitrification. Low flow areas (yellow foam), on the other hand, contain anaerobic micro-organisms that convert nitrate to nitrogen (de-nitrification).
Biological cleaning: by the bacteria that settle on the bio-balls.
- E. UV-C radiation; the water will be briefly exposed to ultraviolet radiation from the UV-C lamp. This kills floating algae, germs and bacteria, when the algae die, they clot together and can be captured by the filter.
- F. Outlet; connect the return hose or PVC pipe to the pond or water to this. The water will flow back from the filter into the pond.
This valve is open during normal operation and must be locked in the back-wash function. **WARNING:** The return hose or PVC pipe should not exceed an elevation of 2m after the filter.
- G. Waste water outlet; connect the waste water hose or PVC pipe to this outlet. Dirty water from the filter can easily flow into the garden and

serve as compost for the plants or be guided to the sewer. When the filter is put in the backwash position (the arrow on the knob H pointing to the waste water hose / pipe) and the drain valve is opened, the dirt will flow out of the filter, with the water. Close the tap of the return hose / pipe.

- H. Knob; for setting the pressure filter to normal filtration or cleaning (backwash).

The arrow on the knob indicates to which output the water flows. The middle of the knob holds a dirt indicator, which indicates when the filter is too dirty.

- I. Cleaning lever: for cleaning the filter foam when filter is in rinsing mode. By turning the handle, the filter foam will be squeezed together and cleaned.



Starting up the pressure filter

(illustration 1 through 4 and 10 through 13, pg. 3 and 5):

! Read both the operating instructions of the pressure filter and the operating instructions supplied with the pump.

Important! The pressure filter may not run dry. Damage to the UV-C cannot be ruled out in this case.

- Choose a suitable location for the pressure filter.
- Do not place the filter in direct sunlight.
- Place the pressure filter on a flat, level surface, use tile, if necessary.
- Only for VarioPress Pro 24000 and 40000; the pressure filter can be buried up to about 2/3 (to just below the clamp ring).
- Connecting the hose or PVC pipe; choose a large hose or PVC pipe to prevent flow resistance:

Choosing a hose:

- a. Mount the 3 taps with hose connection and seal (fig. 12) to the connections (A, F and G) of the pressure filter. Saw the hose fitting to the correct hose diameter prior to mounting. Use hose clamps to clamp down waterproof hoses.
- b. Connect the supply hose coming from the pump, to connection (A).
- c. Connect the return hose that runs back to the pond waterfall runs etc. to connection (F). The maximum discharge head after the pressure filter must not exceed 2m.
- d. Connect the waste water hose, which guides the rinsing water to the garden or the sewer, to connector (G).

The transparent hose fitting Ø50mm with seal (fig. 10) can be fitted to connection (A) using a supply hose Ø50mm.

Choosing a PVC pipe:

- a. Mount the 3 transparent hose fittings Ø50mm and seals (21) to connections (A, F and G) of the pressure filter.
- b. Glue a PVC sleeve Ø50mm on the transparent hose fitting Ø50mm of connection supply pipe (A), after which the supply pipe (PVC) Ø50mm coming from the pump, can be glued to this Ø50mm PVC sleeve.

Glue a PVC tap Ø50mm (Fig.13) to the transparent hose fitting Ø50mm of connection return pipe (F), after which the return pipe (PVC) Ø50mm to the pond, waterfall etc., can be glued to this PVC

- c. tap Ø50mm. The maximum discharge head after the pressure filter must not exceed 2m.
- d. Glue a PVC tap Ø50mm (Fig.13) to the transparent hose fitting Ø50mm of connection waste water pipe (G), after which the waste water pipe, which guides the rinsing water to the garden or the sewer, can be glued to this PVC tap Ø50mm.
- Make sure everything is properly connected.
- Before the system is started to filter, check the following:
 - a. If a tap is present in the supply hose / tube (A), open it.
 - b. Open the tap of the return hose / pipe (F).
 - c. Close the tap of the waste water hose / pipe (G).
 - d. Position knob (H) in filter mode, the arrow will point to the return hose / pipe (F).
- Put the pump into operation by plugging it into the power outlet. Follow the pump instructions carefully.
- If no leaking is found, you can also put the UV-C lamp of the pressure filter into operation by plugging it into the power outlet. The UV-C lamp, which is on the control panel on top of the press filter (I), will turn blue. The pressure filter with integrated UV-C can work continuously. A UV-C lamp needs to be replaced after about 7,000 hours, in order to ensure that the UV-C works with optimal efficiency.



Maintenance(illustration 2 through 8, 14 and 15, pages 3, 4, 6 and 7)

To guarantee a long life and trouble-free operation of the filter, we recommend regular maintenance and cleaning.



- Follow the safety instructions.
- Pressure filter maintenance strongly depends on the level of water contamination.



Cleaning the filter foam:



- The foam filter should be cleaned every week or sooner if the flow decreases and the orange dirt indicator on the knob (H) indicates that it is dirty; it will be pushed up in the transparent glass.
- Unplug the UV-C and pump from the power outlet to turn them off.
- Close the tap of the return hose / pipe (F).
- Open the tap of the waste water hose / pipe (G).
- Turn the knob (H) a quarter turn clockwise so that the arrow points to the waste water hose / pipe (G).
- To rinse, the pump can be switched on again by plugging the pump bag in to the power outlet.
- While rinsing, carefully rotate the cleaning lever (I) repeatedly, until clean water runs from the waste water hose / pipe.
- Turn off the air pump by unplugging the power cord from the electrical outlet.
- Position knob (H) back in filter mode; the arrow will point to the return hose / pipe (F).
- Close the tap of the waste water hose / pipe (G).
- Open the tap of the return hose / pipe (F).
- Put the pump into operation by plugging it into the power outlet. If no leaking is found, you can also put the UV-C lamp of the pressure filter into operation by plugging it into the power outlet.
- If necessary, top up the pond with fresh water.



Washing and replacing the filter foam:

If, after cleaning, the flow is still too low or the pressure filter becomes dirty quickly, the filter foam should be washed or replaced. Only use clean tap water or pond water to wash.

TAKE NOTE: when disconnecting and opening the pressure filter, water may flow out, make sure that this water cannot cause damage.

- Unplug the UV-C and pump from the power outlet to turn them off.
- Disconnect all piping (A, F and G) from the pressure filter.
- Remove the clamp ring (15).
- Slowly lift the cover with the foam packet from the tank (17) of the pressure filter. Let it leak out.
- Place the lid with the foam packet facing upward on a clean flat surface.
- Turn the UV-C pipe cap (11) counter-clockwise and remove it from the UV-C pipe.
- Remove the screw (27) and plate (26) from the pivot rod (24).
- Remove the black cap (10).
- Remove the filter foam rings ((9) from the UV-C tube.
- Clean the filter foam of the filter foam rings (9) with clean tap or pond water.
- If the foam of the foam rings (9) cannot be cleaned, or have come out of shape, they must be replaced.
- Place the foam rings (9) back around the UV-C pipe alternately (yellow, blue, yellow etc.).
- Place the black cap (10) back on the UV-C pipe, make sure the pivot rod (24) and the pivot rod holder (25) are properly mounted and mount the plate (26) and screw (27).
- Place the UV-C pipe cap (11) back on the UV-C pipe and fix it by turning the UV-C pipe cap (11) in a clockwise direction.
- Take the basket with bio balls (12-14) from the tank (17) and rinse it with clean pipe or pond water.
- Also clean the tank (17) and o-ring (16) with clean pipe or pond water.
- Place the basket with bio-balls (12-14) back into the tank (17).
- Place the o-ring (16) back to the tank, by placing it on top of the first corner (see the illustration (7)).
- Place the lid with the foam package back on the tank (17), upright.
- Return the clamp ring (15) and clamp it closed.
- Reconnect all pipes to the pressure filter (remember the seal (21)):
 - d. Attach the supply hose / pipe to connection (A).
 - e. Attach the return hose / pipe to connection (F).
 - f. Attach the waste water hose / pipe to connection (F).
- Put the pump into operation by plugging it into the power outlet. Follow the pump instructions carefully.
- If no leaking is found, you can also put the UV-C lamp of the pressure filter into operation by plugging it into the power outlet.

Only with the VarioPress Pro 60000:

At the bottom of the polyester tank, the VarioPress Pro 60000 is fitted with a drainage tap. This drainage tap can be used to empty drain tank.

If you want to rinse the tank and the bio-cell inside the polyester tank, you will first need to drain it and fill it up with clean pond water. It may be necessary to repeat several times.



Cleaning quartz glass and replacing UV-C lamp and quartz glass

(illustration 8, 14 and 15, page 4, 6 and 7):

The UV-C lamp (4) has a life expectancy of about 7000 hours. If the lamp is used 24 hours a day, we recommend replacing it every season.



If the water turns green, clean the quartz glass first. If the UV-C lamp (4) has taken 7000 service hours or when the water starts turning green again, the UV-C lamp (4) needs to be replaced.

Observe the safety instructions.

1. Unplug the UV-C and pump from the power outlet to turn them off.
WARNING! UV-C light is harmful to skin and eyes, always switch off the UV-C lamp before replacing it.
2. Remove the 4 screws from the UV-C cap (1).
3. Lift the UV-C cap (1) straight up from the lid (8).
4. Clean and dry the quartz glass (6) using clean pipe or pond water and a soft, clean cloth, do not scratch.
If the UV-C lamp or quartz glass (6) don't need to be replaced, continue with point 12.
5. Loosen the quartz glass coupling nut (7).
6. Carefully remove the quartz glass (6) from the UV-C cap (1).
7. Inspect the quartz glass (6) for any cracks or damage, if necessary, replace the quartz glass (6).
8. Inspect the red seal (5) of the quartz glass, clean and replace the red seal (5) if there are any signs of damage.
9. If the UV-C lamp (4) needs to be replaced, remove it from the globe fitting and replace with a new lamp.
Use the appropriate type of UV-C lamp, as indicated on the lamp or lamp label. The wrong UV-C lamp will break and may cause damage

to other components of the pressure filter. Hold the new UV-C lamp with a clean cloth.
10. Put the quartz glass back by pushing it in to the UV-C cap (1).
11. Tighten the coupling nut (7) of the quartz glass thoroughly.
12. Inspect the white seal (2) of the UV-C cap (1), clean and replace the white seal (2) if there are any signs of damage.
13. Position the UV-C cap (1) straight up on the lid (8) and secure in place with 2 hands.
14. Mount the 4 screws from the UV-C cap (1).
15. Put the pump into operation by plugging it into the power outlet. Follow the pump instructions carefully.
16. If no leaking is found, you can also put the UV-C lamp of the pressure filter into operation by plugging it into the power outlet.



Description of parts: (illustration 14 and 15, page 6 and 7)

No.	Description	No.	Description
1	UV-C cap	17	Tank
2	White seal	18	Cleaning lever
3	Pressure ring	19	Shaft connection
4	UV-C lamp	20	Upper bearing
5	Red seal	21	Seal
6	Quartz glass	22	Casing
7	Quartz glass coupling nut	23	Coupling nut
8	Lid	24	Pivot rod
9	Filter foam ring	25	Lower bearing
10	Black cap	26	Plate
11	UV-C pipe cap	27	Screw
12	Lid of bio-ball basket	28	Screw throughout
13	Bio-ball	29	Throughput
14	Bio-ball basket	30	Inner tank
15	Clamp ring	31	Bio-cell
16	O-ring		

Parts can be ordered from your dealer, indicate the drawing number, description and the type of pressure filter when placing an order.



Winter period

- With approaching frost, that may cause the pressure filter to freeze, it should be disconnected and protected from the frost.
- Disconnect the pressure filter in the fall and store it frost-free, or make sure that the pressure filter cannot fill with water.
- Clean the pressure filter as described earlier, before putting it in storage.



Removal and storage of waste

All household electrical appliances must be removed in accordance with EU directives. The product may not be disposed of with the normal household waste, but should be collected separately. You are personally responsible for bringing the device to a designated landfill site. It must be dismantled and processed in an environment-friendly manner.

More information on local landfill sites can be obtained from the municipality in which you live.



Warranty conditions

The pressure filter is covered by a 24-month warranty from the date of purchase. Please keep the receipt for future reference.

Within the period specified, repair or replacement of damage caused as a result of manufacturing and/or material defect will be free of charge. UV-C lamp, quartz glass tube, filter materials, normal wear and tear, dry running, scale, lack of maintenance, freezing, improper repairs and damage caused by improper use are not covered by the warranty.

Any modification or alteration of the pressure filter, including shortening the power cord or cutting the plug off, will void the warranty. The supplier is not liable for consequential damage arising from pressure filter failure or misuse. For warranty claims, bring the product, the product warranty and receipt to the retailer.

Aankoopdatum -Date d'achat – Kaufdatum – Date of purchase:

Dealerstempel – Chaet du revendeur – Stempel des Händlers – Stamp of dealer:

Handtekening – Signature – Unterschrift - Signature:

**Vergeet niet uw aankoopbon te bewaren samen met dit garantiebewijs.
Ne pas oublier de garder votre facture d'achat avec ce certificat de garantie ensemble.
Vergessen Sie nicht, Ihren Kaufbeleg mit diesem Garantieschein zusammen zu halten.
Don't forget to keep your purchase invoice with this guarantee certificate together.**



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