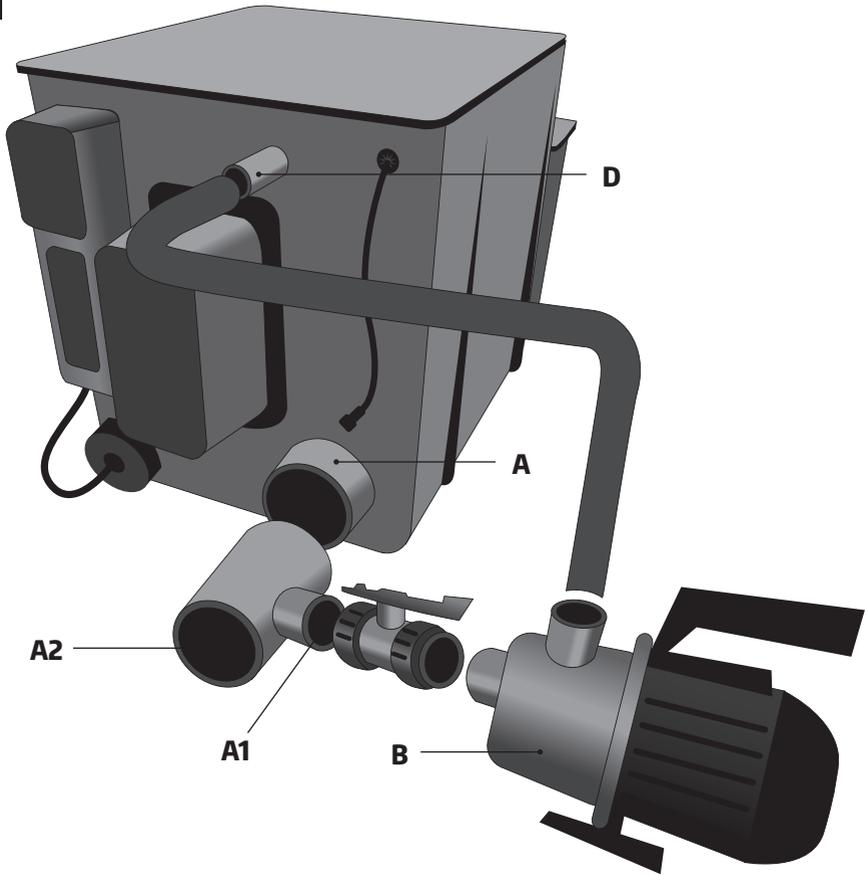
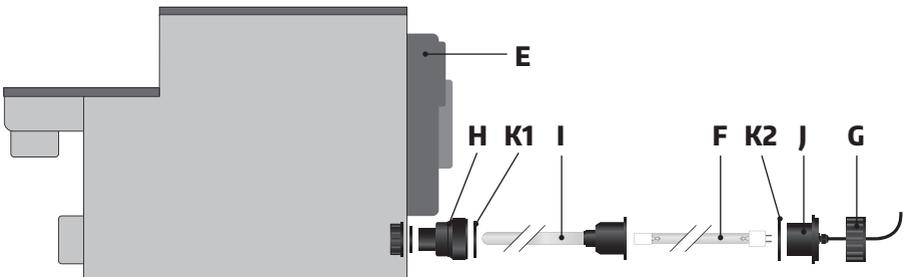
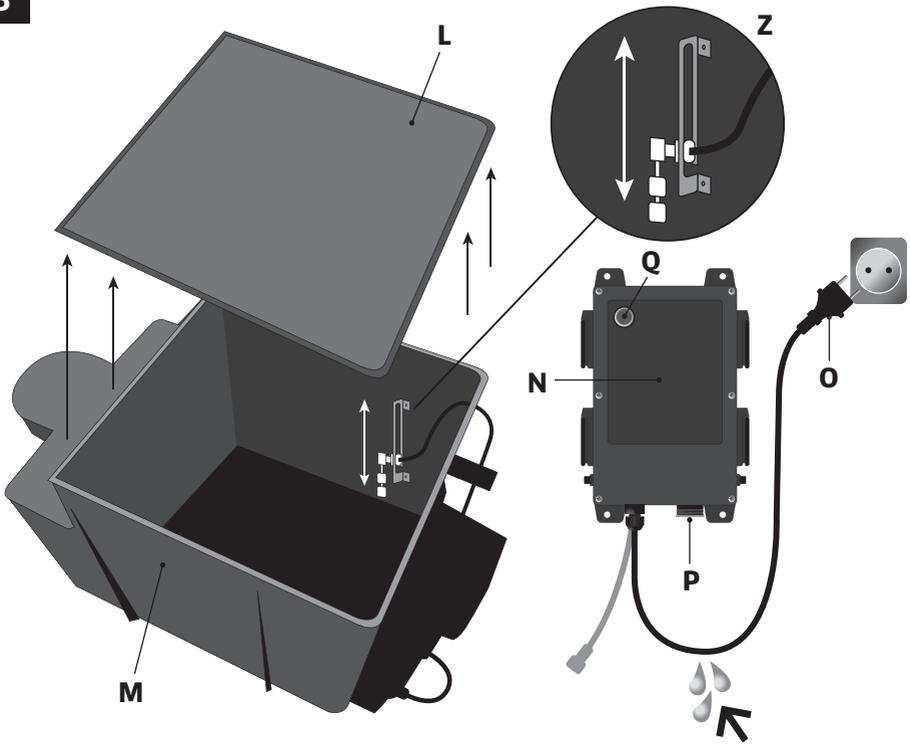
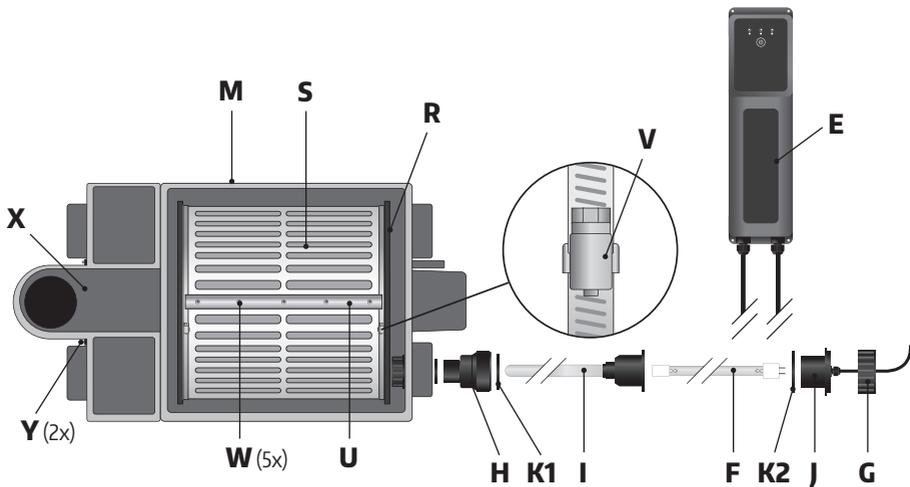


AEM EASY DRUM

M A N U A L

1**2**

3**4**

TERMS OF USE

1. Build in height: Water level equal to bottom drain channel
2. Use both entries
3. Do not exceed the maximum water flow
4. Keep the water level on the same height, by continuous water-refresh

FLOWCHART



Pond pump



High-pressure pump



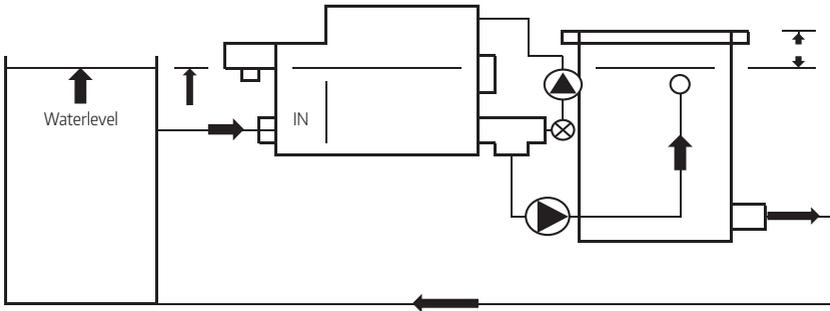
Ball valve



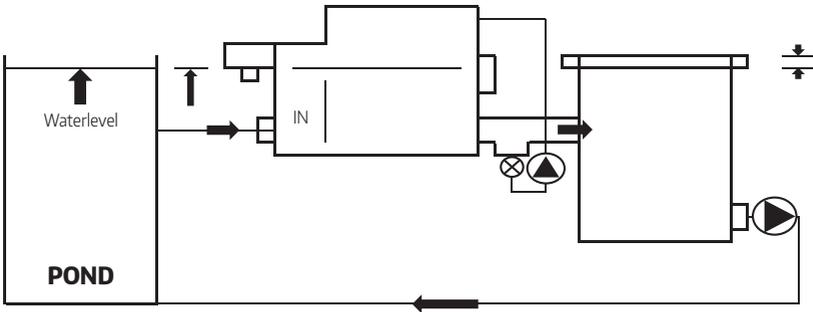
Check valve

ATTENTION:

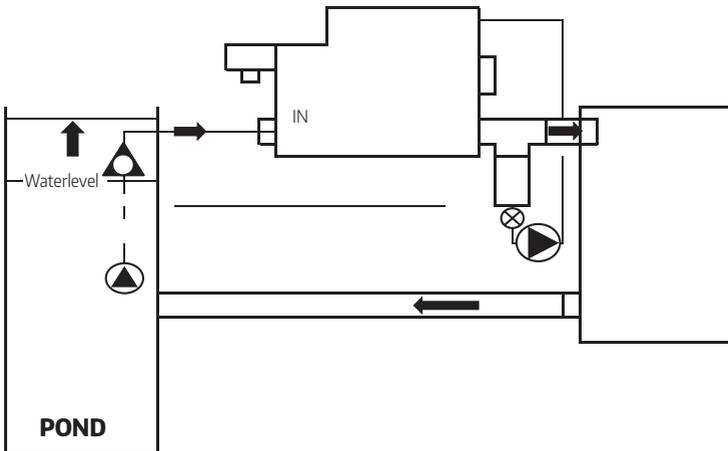
Install the high-pressure pump in an anhydros location.
Do not install it on the filterfloor!



Gravity Setup / Drum Filter / Pump / Bio Filter



Gravity Setup / Drum Filter / Pump / Bio Filter



Pump fed

FUNCTION

The AEM Easy Drum is a low maintenance pre-filter system that provides healthy, clear water, without the user having to perform daily maintenance. The sophisticated system comes standard with an Amalgam UV-C lamp.

The built-in UV-C Module ensures crystal clear water. The sophisticated design and high quality materials result in high intensity UV-C radiation with a wavelength of exactly 253.7 nm. The high dose of irradiation kills almost all bacteria, viruses and fungi and thus provides clear, clean water. The UV-C radiation also keeps the screen panel free of both biofilm and algae growth. This results in optimum performance for clean, healthy water!

With its intelligent electronics the device provides ample warning when the UV-C lamp is no longer producing enough radiation and therefore needs to be replaced. So you always have a perfectly working unit!

WARNING! Read the entire manual before use/installation of the system!

SAFETY AND INSTALLATION REQUIREMENTS

- See **Technical specifications** for the required mains voltage and current type.
- The device may only be connected to an electrical installation that meets the legal standards. A residual-current device (30 mA) and earthed wall socket are required. If in doubt, consult a qualified installer.
- Both the Drum Filter and the control box must be installed in a dry, sheltered place. Not in direct sunlight.
- Keep the power plug free from moisture. Prevent water from running along the power lead into the socket. (See figure 3 for looping of the power lead).
- The device is suitable for fresh water.
- The device is suitable for water temperatures of 4 to 40 °C. If exposed to temperatures outside these limits, the device must be fully isolated from the water circuit.
- Before commissioning, check the entire device, mains lead and plug for damage. If damage is found, the device may not be used. Have the damage assessed by the dealer.
- The device may only be switched on when there is sufficient water flow.
- Never look directly into the lamp, to prevent any damage to eyes and skin. (The system indicates when replacement of the lamp is desirable).
- When opening the lid/maintenance cover the power to the device/control box must always be switched off. Warning! The UV-C lamp may still be hot up to ten minutes after it is switched off.

INSTALLING HIGH PRESSURE PUMP; SEE FIGURE 1

It is important, however, that high-pressure PVC is used for this purpose. The pump generates a pressure of 3 bar. Pressure peaks of 4 bar may occur during start-up. Therefore do not use sewer & drain PVC.

It is also very important that your Drum Filter is placed at water level. The right point of the water level is shown in the flow chart on p. 5 The high-pressure pump itself must be placed in a moisture-free location below the water level.

Never place the high pressure pump directly on the filter floor.

TIP: Place a ball valve between the output (A) and the high pressure pump (B).

1. Place a tee at the output (A) of the filter. Output (A1) of the tee is for the high pressure pump (B). The other (A2) serves as a passage to the biological filter or pond pump.
2. Connect the line from the output (A) of the tee to the high-pressure pump (B) and then connect the piping of the high pressure pump (B) to the spray tube (D).

INSTALLING UV-C MODULE; SEE FIGURE 2

The electronic ballast (E) must remain visible so the UV-C lamp replacement indicator (F) can be seen. Also consider accessibility in connection with maintenance (see also **Maintenance and disassembly**).

1. Loosen the lock nut (G) of the push-in fitting (H).
2. Carefully remove the UV-C lamp (F) from its packaging and insert it into the quartz glass (I).
3. Insert the UV-C lamp (F) into the lamp holder (J) and then push the assembly further into the quartz glass (I).
Also always ensure that the O-rings (K1 & K2) are positioned correctly.
4. Screw the lock nut (G) hand-tight on the push-in fitting (H).

INSTALLING AEM EASY DRUM; SEE FIGURE 3

1. Remove the cover (L) of the housing (M) and check that the float (Z) is in the lower position.
2. Open gate valve on the inlet, and the outlet if present, in order to fill the filter system with water.
3. Fill pond until the maximum water level has been reached. (See flowchart p. 5).
4. Check the water level in the housing (M).
5. Now check all pipes, hoses and connections for leaks.
6. Place the lid (L) back on the housing (M).
7. Now connect the plugs of the devices to the appropriate sockets on the control box (N) (see indications on the control box (N)).
8. Insert the plug (O) of the control box (N) in the appropriate socket and switch on the system by toggling the switch (P).
9. Hold the button (Q) for ten seconds to activate the motor and high pressure pump.
10. After about 20 to 30 minutes the rinse cycle should be repeated automatically.
11. For longer delays, you can adjust the height of the float (N).
(WARNING! When adjusting the float (Z) or opening the lid (L), the power supply must always be disconnected).

MAINTENANCE & DISASSEMBLY; SEE FIGURE 3/4

The device requires maintenance at least once a month. During maintenance the power supply must be disconnected. The screen panel should be checked for wear and tear. The quartz glass (I) must be cleaned to remove scale deposits and any algae. The UV-C lamp (F), however, only needs to be replaced after 12,000 hours of operation. The service life varies depending on the number of on/off cycles.

The intelligent electronics of the UV-C module (E) provide a signal after 12,000 hours of operation.

1. Disconnect the power supply and close the piping.
2. Ensure that the water can drain out of the housing (M).
3. Turn the entire drum (R) one revolution by hand and check the assembly for wear.
If necessary, you can replace the screen panel (S) (see heading: **REPLACING SCREEN PANEL**).
4. Loosen the lock nut (G) and disconnect the UV-C lamp (F) from the lamp holder (J).
If necessary, you can also replace the lamp (F) (see step 11 for reset).
5. Carefully remove the quartz glass (I) from the push-in fitting (H).
6. The quartz glass (I) can be cleaned with a suitable cleanser. Rinse the quartz glass (I) thoroughly after cleaning (use a soft cloth to avoid scratches!).
7. After cleaning, place the quartz glass (I) back in the push-in fitting (H). Once again, ensure that the O-rings (K1 & K2) are positioned correctly.
8. Insert the UV-C lamp (F) into the lamp holder (J) and then push the assembly further into the quartz glass (I).
9. Tighten the lock nut (G) hand-tight on the push-in fitting (H).
10. Place the lid back on the housing (M) and put the plug (O) back in the socket.

11. After replacing the UV-C lamp (F) the device must be reset. This is done by pressing the button (T) on the electronic ballast (E) and holding it for five seconds. The green lamp will now light up again.

REPLACING SCREEN PANEL; SEE FIGURE 3/4

Once you have established that the screen panel (S) is showing wear, it is important that you replace it with a new screen panel (S) as soon as possible. This will ensure the continued optimal performance of the filter.

1. Disconnect the power supply and close the piping.
2. Ensure that the water can drain out of the filter.
3. Turn the drum (R) by hand until the fastening strip (U) and hose clamps (V) are pointing upwards.
4. Now remove the screws (W) from the fastening strip (U).
5. Loosen the hose clamps (V).
6. Remove the drain channel (X), by unscrewing the two mounting screws (Y) at the front.
7. Now remove the screen panel (S) and replace it with a new one.
8. Tighten the hose clamps (V) and fastening strip (U) again. Then check that the assembly is attached correctly.
9. Put the lid back on the housing (M).
10. Now insert the plug in the socket and hold the button (Q) for 10 seconds. Now the motor and high pressure pump are activated again.

When in doubt, always consult a qualified installer!

(Text in the manual that is underlined only applies to the UV-C module incl. timer).

TYPES AEM Easy Drum

Part No.: TR00001	AEM Easy Drum incl. Module 40W Amalgam + Timer (230V; 50/60Hz)
Part No.: TR00002	AEM Easy Drum incl. Module 40W Amalgam (230V; 50/60Hz)

SPARE PARTS

Part No.: ZS00001	Screen panel standard 1140x398mm
Part No.: ZS00002	Screen panel high-flow 1140x398mm
Part No.: 3000045	Float set complete
Part No.: 3000027	Stainless steel hose clamp
Part No.: CO00001	Universal connector 110mm
Part No.: UVM0001	Electrical part Filtreau UV-C Module 40W Amalgam
Part No.: UVM0002	Electrical part Filtreau UV-C Module 40W Amalgam incl. timer
Part No.: QS0001	Quartz sleeve 40W Amalgam
Part No.: HOU0007	Adapter Filtreau UV-C Module
Part No.: RLM0001	Lamp Filtreau UV-C Module 40W Amalgam