

FLUVAL 
POND

JET-CLEAR



INSTRUCTION MANUAL **PUMP, FILTER & UVC SYSTEM**

FOR FRESHWATER USE ONLY.

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1. IMPORTANT SAFETY INSTRUCTIONS

WARNING - To guard against injury, basic safety precautions should be observed, including the following:

- 1. READ THOROUGHLY PRIOR TO INSTALLATION AND OPERATION**
Read and follow all safety instructions and all the important notices on the use and maintenance of this appliance. Disregarding this advice may result in damage to the appliance or personal injuries.
 - 2. DANGER** – To avoid possible electric shock, special care should be taken since water is employed in the use of pond equipment. For each of the following situations, do not attempt repairs yourself; return the appliance to the store where it was purchased if still under warranty.
 - A. Prior to installing the unit, check the quartz glass sleeve and the UVC lamp have not been damaged during transportation, as the UVC lamp (B) and the quartz sleeve (C) are made of glass. Handle them with care. Do not handle UVC lamp with bare hands as this will impede its performance.
 - B. If the appliance shows any sign of abnormal water leakage or if RCD (or GFCI- Ground Fault Current Interrupter) switches off, disconnect the power supply cord from mains (main power supply).
 - C. Carefully examine the appliance after installation. It should not be plugged if there is water on parts not intended to be wet. If electrical components of the appliance get wet, unplug the appliance immediately.
 - D. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or if it is dropped or damaged in any manner. The power cord of this appliance cannot be replaced: If the cord is damaged, the appliance should be discarded. Never cut the cord.
 - 3. WARNING** – This appliance contains a UVC emitter. Direct exposure to UVC can damage eyes and skin. Do not operate the UVC emitter when it is removed from the appliance enclosure.
 - 4. WARNING** – This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
 - To avoid injury, do not touch moving parts or hot parts.
 - 6. CAUTION** – Always unplug or disconnect all appliances in the pond from the electrical supply before placing hands in water, before putting on or taking off parts and while the equipment is being installed, maintained or handled. Never yank the cord to pull the plug from outlet. Grasp the plug and pull to disconnect. Always unplug an appliance from an outlet when not in use.
 - This is a pump-filter unit complete with integrated UVC for outdoor fresh water ornamental ponds. Do not use this appliance for other than its intended use. Unintended use of the appliance or damage to the housing may result in the escape of dangerous UVC radiation. UVC radiation may, even in little doses, cause harm to the eyes and skin.
 - Do not use this product in swimming pools or other situations where people are immersed;
 - This product is suitable for use in water temperatures from 4 °C up to 35 °C (39.2 °F to 95 °F) with or without fish;
 - Do not use this product with flammable or drinkable liquids.
- The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition and will invalidate your warranty.
- Do not install or store the appliance where it will be exposed to temperatures close to 0 °C (32 °F) or below. In freezing conditions, disconnect the power supply to the filter and drain water from the filter canister. In winter, remove and store the appliance in a sheltered place.
 - 9. SHELTER APPLIANCE ALSO FROM DIRECT SUNLIGHT. THE MATERIALS HAVE HIGH STABILITY TO SUNLIGHT BUT DIRECT RAYS MAY OVERHEAT THE MOTOR AND SPEED UP INSULATOR AGING.**
 - If an extension cord is necessary, ensure connection is watertight and dust proof. A cord with proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled. The connection should be carried out by a qualified electrical installer.
 - 11. IMPORTANT** – Electrical connection must be in accordance with data on the rating label; the appliance can be operated only after having been correctly installed. The electrical safety is guaranteed only when the item is connected to a residual current device (RCD) or Ground Fault Circuit Interrupter (GFCI) having a rated residual operating current not exceeding 30 mA.
 - 12. WARNING** – Do not connect power to filter unless filter is fully and correctly assembled. Never use the product without water. The filter must always be fully filled with water when operating.
 - 13. WARNING** – Risk of electric shock. This appliance is equipped with a grounded, type 3-wire cord (3-prong plug). This plug will only fit into an electrical outlet made for a 3-prong plug. This is a safety feature. If the plug should fail to fit the outlet, contact an electrician to replace the outlet. Do not attempt to defeat the safety purpose of the grounding pin part of the 3-prong plug. Ensure that it is connected only to a properly grounded RCD or GFCI equipped receptacle rated at 30mA.
- For U.S.A. and CANADA only - To reduce the risk of electric shock, use only on a portable self-contained fountains.
- 14. WARNING** – Do not bury cord. Locate cord to minimize damage from lawn mowers, hedge trimmers and other equipment. Permanent installations to the main power supply (hard wiring), must comply with local authority regulations, which may stipulate the use of plastic or metal conduit to protect the cable.
- SPECIAL INSTRUCTION FOR U.K.: IMPORTANT** – This product is supplied without plug and is designed to be permanently wired to the mains supply; the connection must be made in a dry, weatherproof enclosure through the use of a double pole switched fused, incorporated in the fixed wiring in accordance with the wiring rules and having a contact separation in all poles that provided full disconnection under overvoltage category III, which complies to BS3676 fitted with a 3 amp fuse. The installation must conform to the regulations of the Local Electricity Authority which could include the use of plastic or metal conduit to protect the cable. A 30mA Residual Current Device (RCD) must be fitted to the mains supply.

WARNING: THIS APPLIANCE MUST BE EARTHED. **IMPORTANT** –

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

BROWN-LIVE • BLUE-NEUTRAL • GREEN/YELLOW-EARTH

The Brown lead should be connected to the live terminal, which may be marked with an ‘L’ or coloured brown or red.

The Blue lead should be connected to the Neutral terminal, which may be marked with an ‘N’ or coloured blue or black.

The Green/Yellow lead should be connected to the Earth terminal which may be marked with an ‘E’ or coloured green or yellow.

The cord should be protected from abrasion, cuts or any other damage.

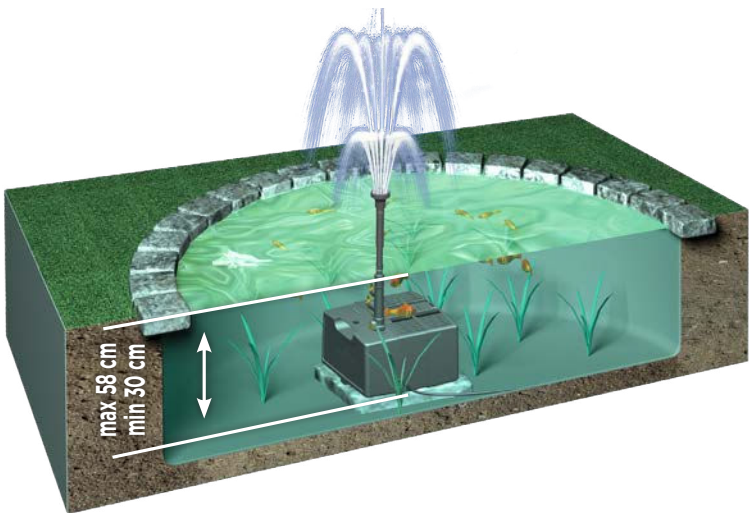
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

2. SPECIFICATIONS

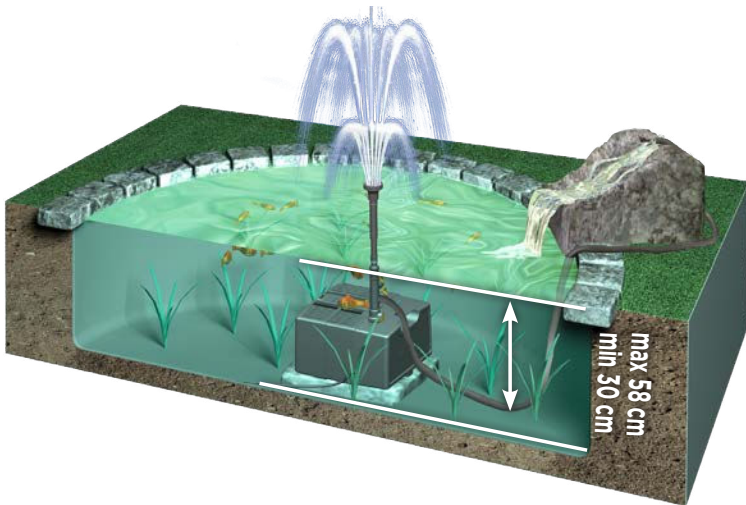
	PT8342	PT8344	PT8346
FOR PONDS UP TO	3500 Litres 900 US Gal	6500 Litres 1700 US Gal	9500 Litres 2500 US Gal
PUMP OUTPUT	1980 LPH	2820 LPH	2820 LPH
MAXIMUM FLOW RATE	1575 LPH	2100 LPH	2100 LPH
MAXIMUM HEAD HEIGHT	1.50 m / 5'	2.45 m / 8'	2.45 m / 8'
UV BULB	9W	11W	13W
WATTAGE (PUMP + UV)	40W	53W	55W
FOAM 	x1	x1	x2
BIOLAVA 	250 g	250 g	2 x 250 g (500 g)
OUTLET DIAMETER	19, 25, 32 mm ¾", 1", 1 ¼"	19, 25, 32 mm ¾", 1", 1 ¼"	19, 25, 32 mm ¾", 1", 1 ¼"
POWER CORD LENGTH	10 m / 33'	10 m / 33'	10 m / 33'

3. FEATURE OPTIONS

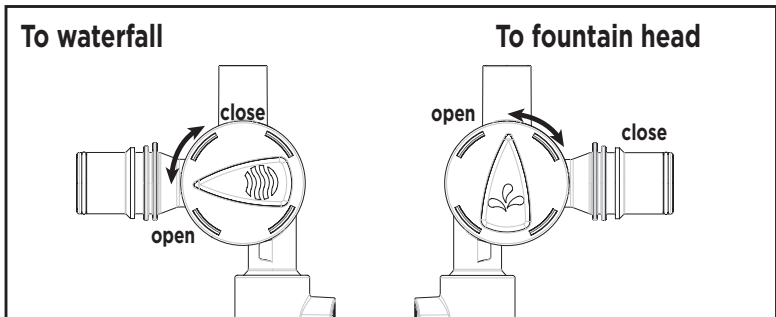
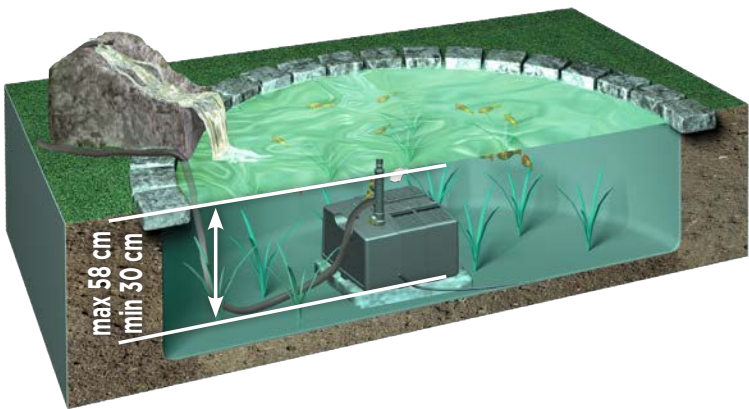
- 1 To use the fountain head feature only, close the waterfall valve and open the fountain head valve.



- 2 To use both the waterfall and fountain features, open both diverter valves.

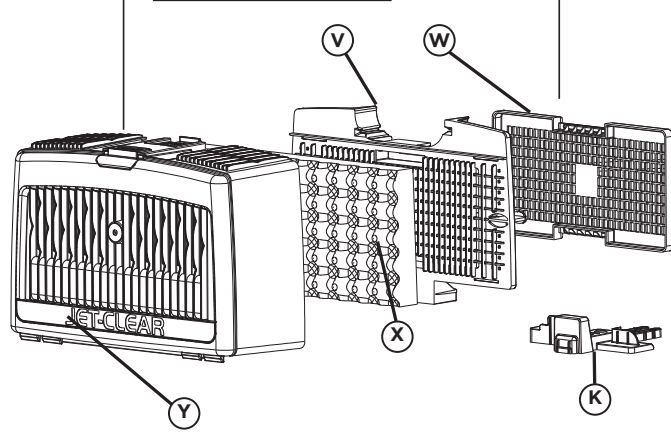
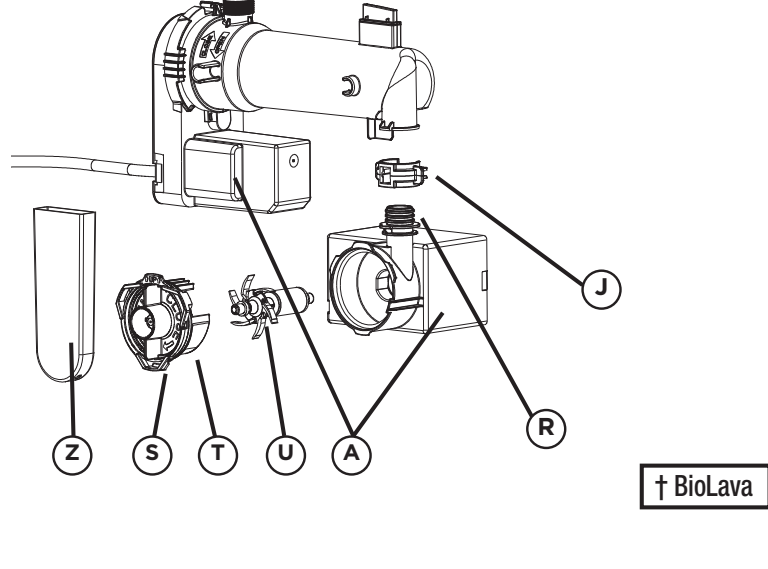
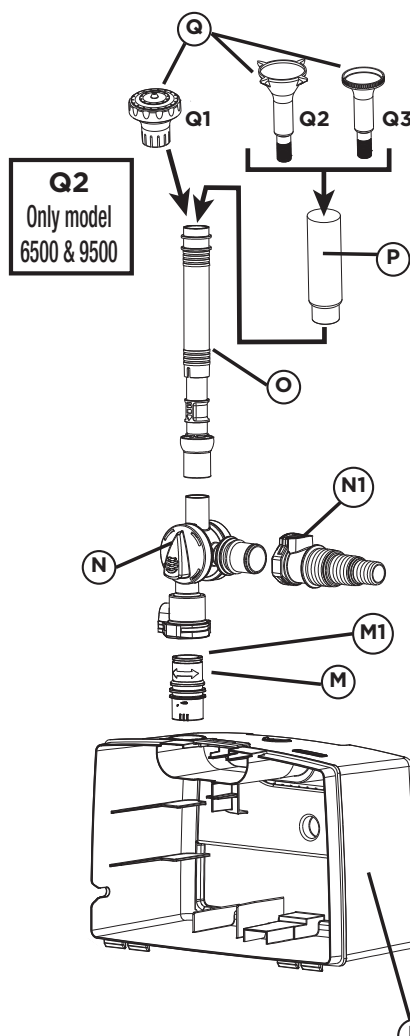
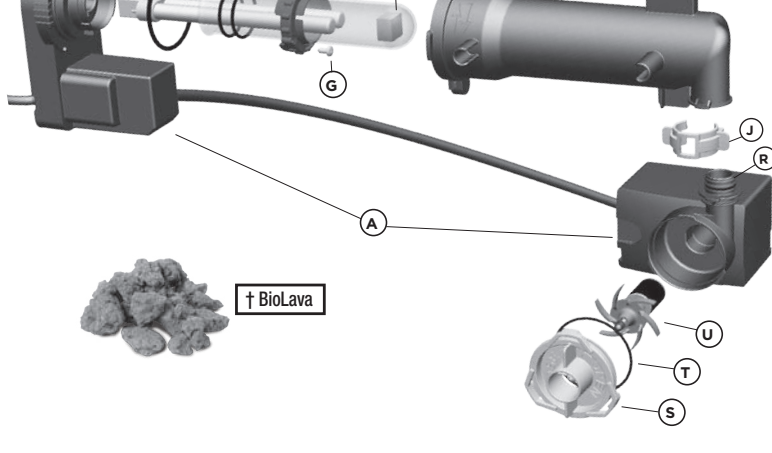


- 3 To use the waterfall feature only, open the waterfall valve and close the fountain head valve.

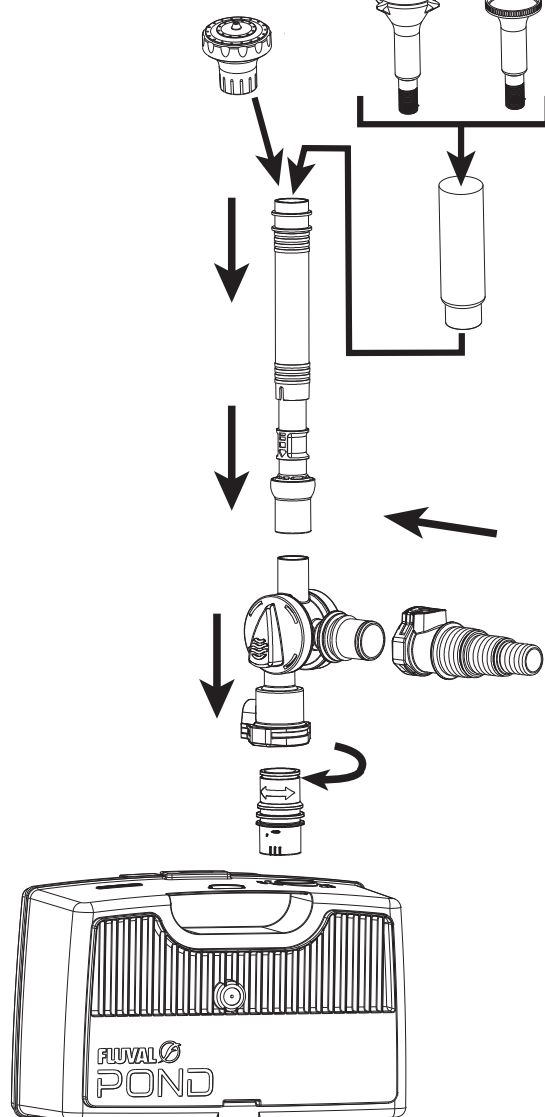


4. COMPONENTS

- | | |
|---|---|
| A UVC Head & Motor Pump Assembly | N Diverter Valve |
| B UVC Lamp | N1 Click-Fit Coupling 3/4" - 1" - 1 1/4" |
| C Quartz Sleeve | O Telescopic Riser Stem |
| D Quartz Sleeve O-Rings (2 pcs) | P Fountain Jet Base |
| E Quartz Sleeve Flange | Q Fountain Heads (3-Tier, Lily, Waterbell) |
| F UVC Head O-Ring | R Motor O-Ring |
| G Flange Screw | S Impeller Cover |
| H Lamp Damper | T Seal Ring |
| I UVC Tube | U Impeller Assembly |
| J Water Circuit Secure Clamp | V BioLava Frame |
| K Secure Lock | W BioLava Cover |
| L Main Chamber | X Filter Foam |
| M Click-Fit Adapter | Y Filter Chamber |
| M1 Rubber O-Ring | Z Air Evacuator |

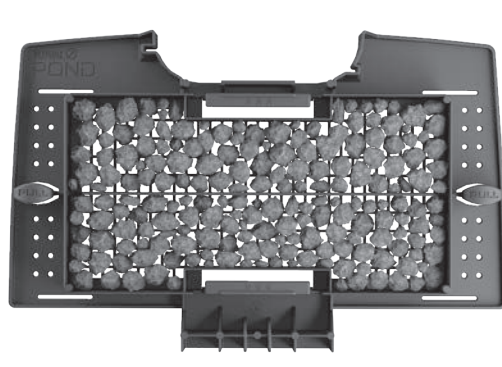


5. PREPARING THE PRODUCT FOR USE



WARNING: Do not plug in the unit, before it is correctly and fully installed. When the Jet-Clear is plugged in, both pump and UVC simultaneously work.

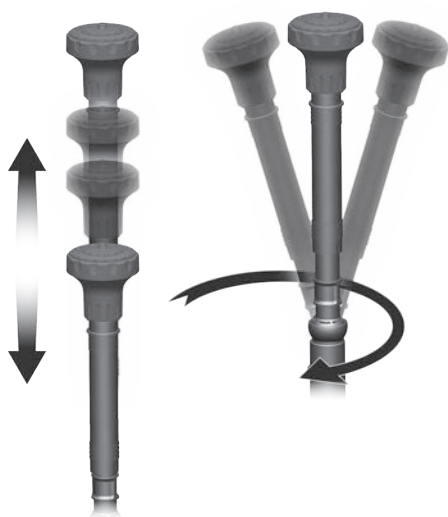
- 1- Insert the Click-Fit adapter (M) into the main chamber and rotate it clockwise until it is locked.
- 2- Insert the Diverter valve (N) into the Click-Fit adapter (M).
- 3- Insert the Telescopic Riser Stem (O) into the Diverter Valve (N).
- 4- Choose the preferred Fountain Head (Q) and insert it on the top either the Telescopic Riser Stem or the Fountain Jet Base.
- 5- If you need to run a waterfall, connect the Click-Fit coupling (N1) on the side outlet of the diverter valve.
- 6- Separate the filtration module from the main chamber by pressing the "Push" button, remove the BioLava cover (W) from the BioLava Frame (V).
- 7- Remove the BioLava material from its plastic packaging and locate it into the BioLava Frame (V), level it and close the frame with the Cover (W), then place it back into the filter chamber. Reassembly the entire filter before proceeding with installation.



6. INSTALLING THE PRODUCT IN THE POND

WARNING: Do not proceed with the product installation if the previous paragraphs have been not understood and followed.

- 1- Place the item at the bottom of the pond ensuring that it is completely immersed in water and securely installed on a solid, horizontal platform (see placement examples above).
- 2- Adjust the height and the direction of the water feature by moving and rotating the Telescopic Riser Stem up or down.



- 3- To use the additional outlet of the Diverter valve to transfer water to a waterfall or other equipment, connect a flexible hose (not included) to the side outlet of the Diverter Valve and secure it with a clamp (not included). Cut the Click-Fit with a small hack-saw for the diameter of required hosing.
- 4- Water flow to the Fountain Jet or Waterfall Outlet can be adjusted separately using the two blue selectors (see fig. 1, fig. 2, fig. 3).
- 5- We suggest to install a thick string attached in the main module eyelet to facilitate the operation of product removal from water as in the fig. adjacent.



- 6- Once the unit is fully installed, plug the filter and enjoy.

7.TROUBLESHOOTING: LOW FLOW FROM PUMP

POSSIBLE CAUSE

- Intake grids are clogged
- The foam(s) is/are clogged
- Both diverter valve outputs are turned off
- The water feature is blocked
- The air evacuator is blocked

SUGGESTED ACTION

- Remove the unit and clean the intake grid
- Remove the unit and clean the foam
- Check and open at least one of the outputs
- Clean the water feature
- Clean the air evacuator

8. TROUBLESHOOTING: PUMP NOT WORKING

POSSIBLE CAUSE

- The power supply is off
- The rotor is blocked
- The UVC lamp area is wet

SUGGESTED ACTION

- Check the power supply
- Clean the rotor
- Verify the lamp area is properly seated

9. TROUBLESHOOTING: UVC LAMP NOT WORKING

POSSIBLE CAUSE

- The power supply is off
- UVC lamp is not correctly seated in the socket
- The lamp is broken

SUGGESTED ACTION

- Check the power supply
- Correctly insert the UVC lamp into the socket
- Replace the lamp

10. TROUBLESHOOTING: LOW GRADE OF FILTRATION

POSSIBLE CAUSE

- Media not correctly positioned
- UVC lamp not working

SUGGESTED ACTION

- Check the media placement
- See the previous paragraph

11. CLEANING OF JET-CLEAR

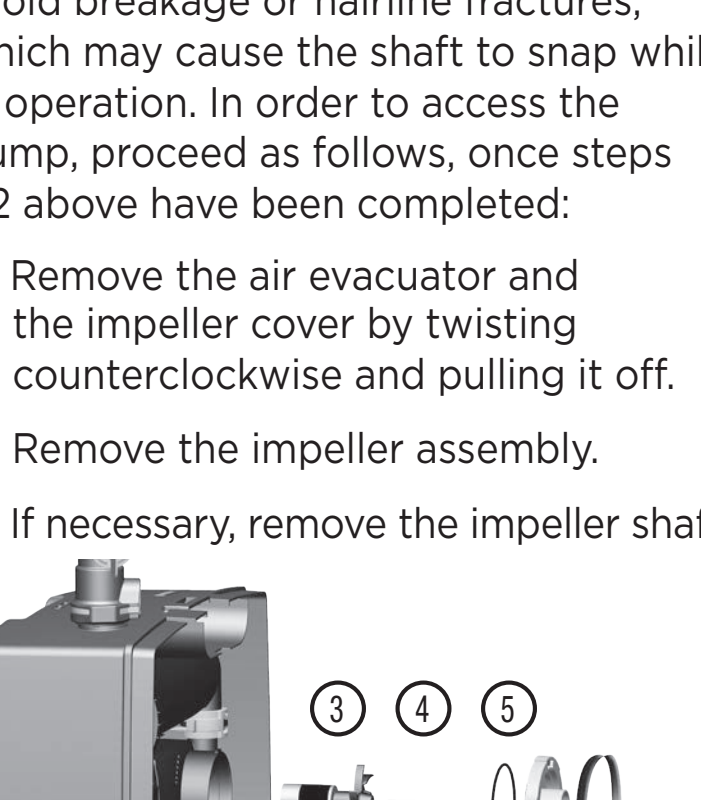
WARNING: Always unplug or disconnect all appliances in the pond from the electrical supply before installing, repairing, maintaining or handling the equipment in the water.

- **NEVER LIFT THE Jet-Clear BY THE CORD.** Check the line cord integrity after maintenance.
- **DO NOT ATTEMPT TO VIEW THE LAMP WHEN LIT!** Direct exposure to ultraviolet light can damage eyes and skin.
- The pump motor has no user serviceable parts. If the motor or the UVC device or the electrical cord is damaged, discard the pump and the UVC assembly and replace it.
- Use original Fluval Pond spare parts only.

To avoid shortening the life of the Jet-Clear, please refer to the maintenance table for all details about maintenance frequency and operations. Start every cleaning procedure following the steps below:

1- Switch off the unit by disconnecting the unit plug from the main power supply.

2- Remove the unit from the pond by the handle(s) or by the attached thick string (if installed), unlock and separate the main chamber from the filter chamber, pressing the “push” button.



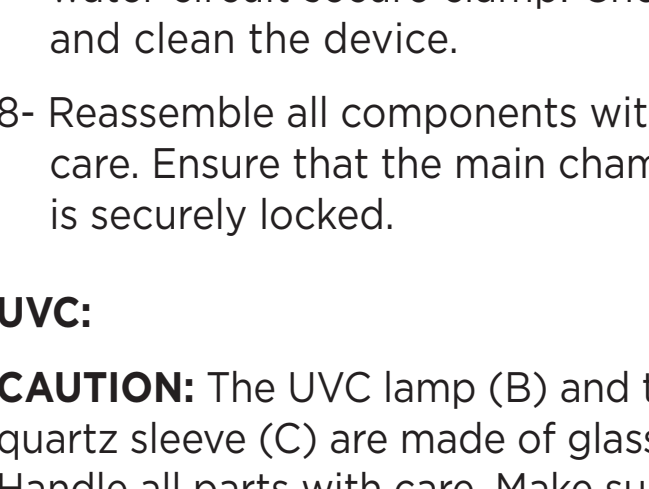
PUMP:

CAUTION: The pump motor includes a high quality ceramic shaft that provides long-lasting, reliable performance when properly maintained. However, extreme care should be taken when handling the shaft during maintenance. Avoid dropping or pressing too hard on it to avoid breakage or hairline fractures, which may cause the shaft to snap while in operation. In order to access the pump, proceed as follows, once steps 1-2 above have been completed:

3- Remove the air evacuator and the impeller cover by twisting counterclockwise and pulling it off.

4- Remove the impeller assembly.

5- If necessary, remove the impeller shaft.



6- Clean all components and impeller well in clean water only, using a small, non-abrasive brush, if necessary. **DO NOT USE DETERGENTS OR OTHER CHEMICAL CLEANERS** which could damage the pump and pollute the pond.

7- Before the winter storage and at least once a year, it's recommended to clean thoroughly the pump removing it completely from the UVC assembly. Once removed the pump-UVC assembly as described in the #9 and #10 of the UVC chapter, disassemble the pump unlocking the water circuit secure clamp. Check and clean the device.

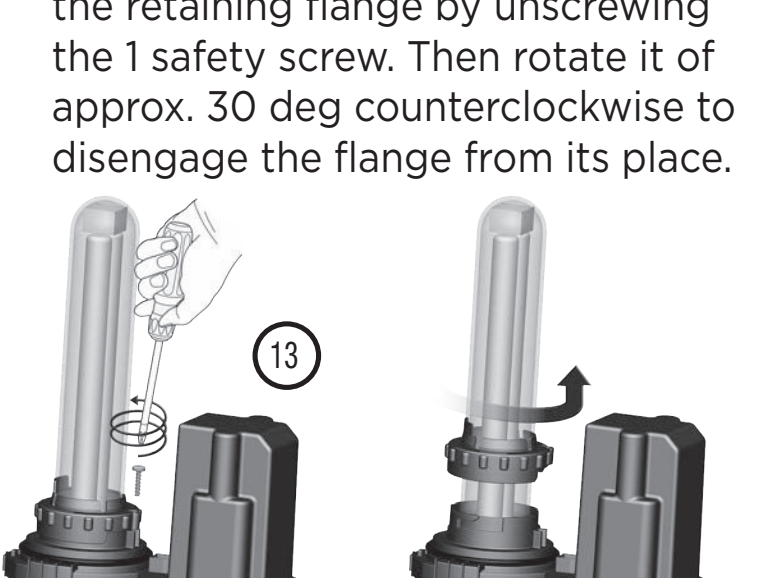
8- Reassemble all components with care. Ensure that the main chamber is securely locked.

UVC:

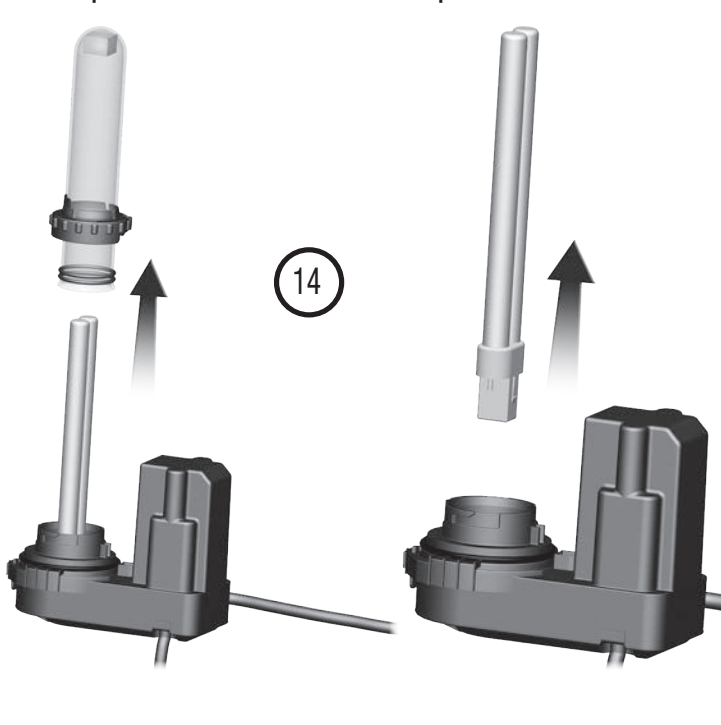
CAUTION: The UVC lamp (B) and the quartz sleeve (C) are made of glass. Handle all parts with care. Make sure that the internal electrical parts of the appliance are dry before, during and after the maintenance operations. To maintain optimum performance, the UVC lamp should be replaced every year. In order to access the UVC lamp and the quartz sleeve, proceed as follows, once steps 1-2 above have been completed:

9- Unscrew the Click-Fit adapter; pull and remove the main chamber secure lock.

10- Remove the pump and UVC assembly from the main chamber.

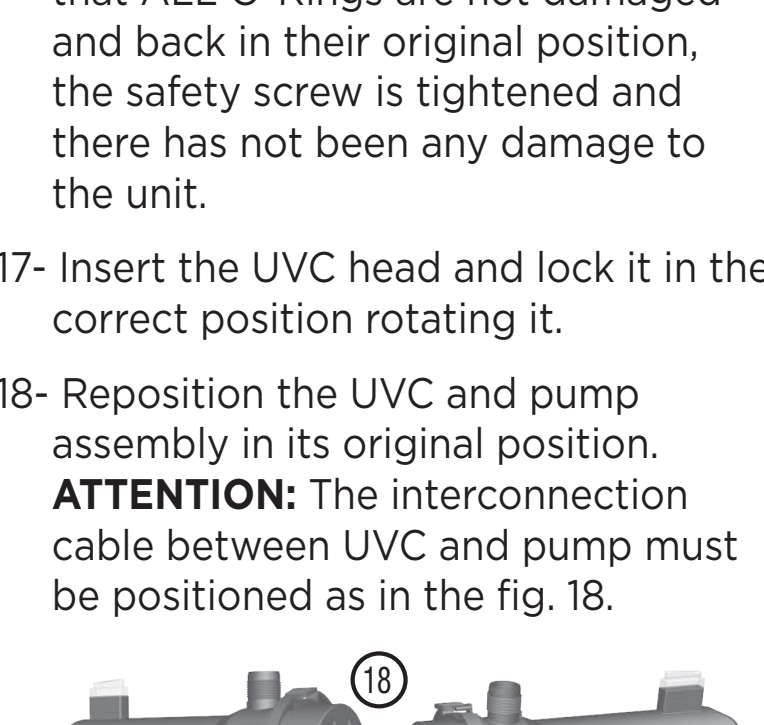


11- Separate the UVC head by pushing the lever and rotating the head counterclockwise (refer to the arrows).

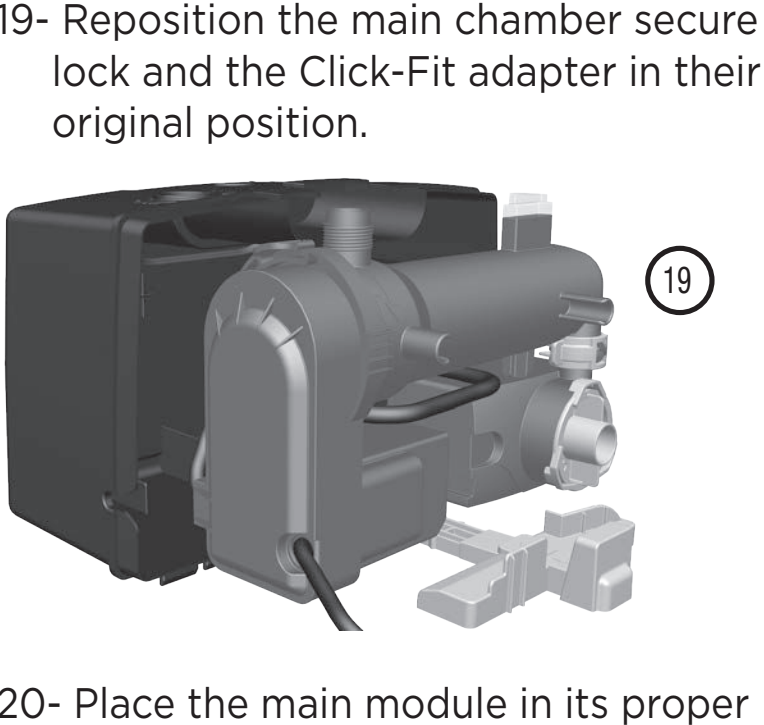


12- At this stage it is possible to clean the quartz sleeve, if required. For cleaning the quartz sleeve, simply use a damp soft cloth. In case of stubborn dirt, some vinegar may be used. Do not use detergents or other chemical cleaners. If it is not necessary to change the UVC lamp, go straight to point #17.

13- To access the UVC lamp, remove the retaining flange by unscrewing the 1 safety screw. Then rotate it of approx. 30 deg counterclockwise to disengage the flange from its place.



14- Pull out the quartz sleeve and then remove UVC lamp pulling it and replace it with a lamp.



WARNING: Do not test the UVC lamp unless the filter is fully assembled and closed. Place the Quartz Sleeve and the two O-rings back in their original position.

IMPORTANT - The Lamp Damper inside the quartz sleeve must sit between the lamp and the bottom of the quartz sleeve. Do not remove it.

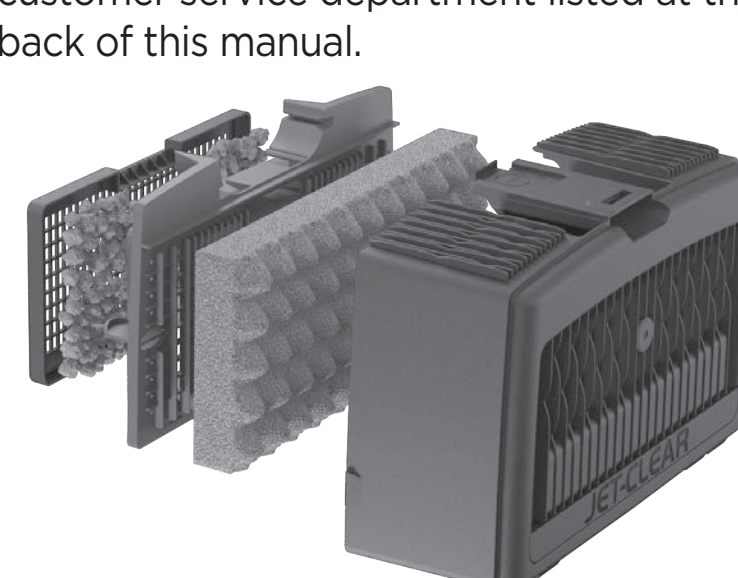
15- Place the retaining flange in its original position by rotating it of approx 30° clockwise and fasten it with the safety screw.

16- Check to ensure that the Quartz Sleeve is not damaged. Check that all the components are present and have been reassembled properly. **WARNING: Risk of Electric Shock:** Before powering the unit, make sure that ALL O-Rings are not damaged and back in their original position, the safety screw is tightened and there has not been any damage to the unit.

17- Insert the UVC head and lock it in the correct position rotating it.

18- Reposition the UVC and pump assembly in its original position.

ATTENTION: The interconnection cable between UVC and pump must be positioned as in the fig. 18.



19- Reposition the main chamber secure lock and the Click-Fit adapter in their original position.

20- Place the main module in its proper position, by attaching it to the filter module(s). The filter chamber(s) is now ready for start-up.

FILTER:

To clean the filter and restore the unit performance to its original level, it is necessary to practice a simple periodical maintenance. Without removing the filter from the pond, brush off the debris from the external surface of the grids using a broom or similar tool. For best results, brush the grids along the ribs. For a thorough cleaning proceed with following operations, once steps 1-2 above have been completed:

1- Remove and clean the filtering media (**ATTENTION:** the biological media (BioLava) must be kept in its container and immersed in a bucket full of pond water in order to preserve beneficial bacteria); rinse and squeeze the blue foam with running water. Clean the BioLava with its container using pond water only.

2- Clean all remaining components with streaming water from a garden hose.

3- Reassemble all components and filtering media with care. Ensure that the filter chamber(s) is/are securely locked and be sure the wave surface of the foam is facing the filter grids (refer to the exploded view).

If you have any doubts, consult your Fluval Pond retailer or call the appropriate customer service department listed at the back of this manual.

12. WINTER STORAGE

The unit must be protected from frost. In cold winter weather, the unit may be switched off. It should then be drained of water, removed from its installation and stored in a dry, weather-proof area. It is recommended to keep the unit modules open during storage.

13. WARRANTY, RECYCLING AND SERVICE

For warranty condition, recycling instruction, service contact and more information, please refer below or visit the web site.

The PDF instruction manual will be available at Fluval Pond web site www.fluvalaquatics.com

14. MAINTENANCE TABLE

PUMP



S
**IMPELLER
COVER**



T
SEAL RING



U
**IMPELLER
ASSEMBLY**



EVERY 3 MONTHS
CHECK - CLEAN



YEARLY
REPLACE

Z

**AIR
EVACUATOR**



EVERY 3 MONTHS
CHECK - CLEAN

UVC

B

**UVC
LAMP**



MONTHLY
CHECK THE
LAMP INDICATOR



YEARLY
REPLACE

C

**QUARTZ
SLEEVE**



EVERY 3 MONTHS
CHECK - CLEAN

D

**QUARTZ
SLEEVE O-RINGS**



EVERY 6 MONTHS
CHECK - LUBRICATE

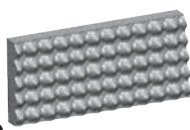


YEARLY
REPLACE

FILTER

X

**FILTER
FOAM**



MONTHLY
CHECK - CLEAN



YEARLY
REPLACE

Y

**FILTER
CHAMBER**



MONTHLY
CHECK - CLEAN

†

BIOLAVA



EVERY 3 MONTHS
CHECK - CLEAN

15. RECYCLING



This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European Directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. Check with your local Environmental Agency for possible disposal instructions or take to an official council registered refuse collection point. **Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.**

16. FOR AUTHORIZED WARRANTY REPAIR SERVICE

QUESTIONS? If you have a problem or question about the operation of this product, please let us try to help you before you return the product to your dealer. Most problems can be handled promptly with a phone call. Or, if you prefer, you can contact us on our website at **www.fluvalaquatics.com**. When you call (or write), please have all relevant information, such as model number and/or part numbers available.

USA CALL US ON OUR TOLL-FREE NUMBER: 1-800-724-2436

between 9:00 a.m. and 4:00 p.m.
Eastern Standard Time.
Ask for Customer Service.

CANADA CALL US ON OUR TOLL-FREE NUMBER: 1-800-554-2436

between 8:00 a.m. and 4:30 p.m.
Eastern Standard Time. Ask for
Customer Service.

UK Helpline Number 01977 521015.

Between 9:00 AM and 5:00 PM, Monday
to Thursday and 9:00 AM and 4:00 PM
on Friday (excluding Bank Holidays).

17. 3 YEAR WARRANTY

The Fluval Pond product is guaranteed for defective parts and workmanship for a period of 3 years from the date of purchase. This guarantee is valid with proof of purchase only.

The guarantee is limited to repair or replacement only and does not cover consequential loss, loss or damage to livestock and personal property or damage to animate or inanimate objects, irrespective of the cause thereof. This guarantee is valid only under normal operating conditions for which the unit is intended. It excludes any damage caused by unreasonable use, negligence, improper installation, tampering, abuse or commercial use. The warranty does not cover wear and tear, breakage of glass or parts which have not been adequately or correctly maintained. **THIS DOES NOT AFFECT YOUR STATUTORY RIGHTS.**

BONUS +2 YEAR EXTENDED WARRANTY

LIMITED TIME OFFER! Register this product online within 30 days of purchase and Fluval will extend your current warranty at no charge. The extended warranty is subject to provisions outlined within the standard Fluval warranty. Complete details and registration available at:



FluvalAquatics.com/warranty