

26EVOUVMANAQ

V090226MAN

English

EPA Est. No. 100154-GBR-1

EVOLUTION
AQUA

INNOVATION IN WATER

evouUV

Aquarium UV Steriliser

INSTALLATION AND OPERATING MANUAL

Complete instructions for all models of evoUV Aquarium Steriliser

WARNING:

- Ensure that the unit is **switched off** at the mains before you attempt to conduct any type of maintenance on the evoUV.
- Ensure the unit is installed in the recommended orientation.
- Fit the quartz sleeves and O-rings and switch on pump to check that unit is water tight before fitting the bulb, bulb socket and end cap.
- Ensure that the end cap is tight before running the unit.
- After replacing bulbs or before tightening the end cap, make sure that the O-Rings are in the correct position, and the bulb sockets are dry.
- Should the electrical connections get wet, please dry thoroughly before switching power on.

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EN ENGLISH **SAFETY WARNINGS**

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
 - Children should be supervised to ensure that they do not play with the appliance.
 - If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
 - **WARNING:** Ultraviolet radiation. Avoid exposure to direct or reflected radiation.
 - Disconnect the appliance from the supply before replacing the UV source.
 - Do not operate the appliance if the protective enclosure or protective parts are removed or damaged.
 - Avoid exposure of eyes and skin to ultraviolet radiation.
-

NL DUTCH (NEDERLANDS) **VEILIGHEIDSWAARSCHUWINGEN**

- Dit apparaat is niet bedoeld voor gebruik door personen (inclusief kinderen) met verminderde fysieke, zintuiglijke of mentale capaciteiten of gebrek aan ervaring en kennis, tenzij onder toezicht of instructie.
 - Kinderen moeten onder toezicht staan om te voorkomen dat zij met het apparaat spelen.
 - Indien het netsnoer beschadigd is, moet dit worden vervangen door de fabrikant of diens serviceagent.
 - **WAARSCHUWING:** Ultraviolette straling. Vermijd blootstelling aan directe of gereflecteerde straling.
 - Koppel het apparaat los van de stroomvoorziening voordat u de UV-bron vervangt.
 - Gebruik het apparaat niet als beschermende onderdelen zijn verwijderd of beschadigd.
 - Vermijd blootstelling van ogen en huid aan ultraviolette straling.
-

DE GERMAN (DEUTSCH) **SICHERHEITSWARNUNGEN**

- Dieses Gerät ist nicht für Personen (einschließlich Kinder) mit eingeschränkten körperlichen, sensorischen oder geistigen Fähigkeiten oder mangelnder Erfahrung und Kenntnis bestimmt, es sei denn, sie werden beaufsichtigt oder eingewiesen.
 - Kinder sollten beaufsichtigt werden, damit sie nicht mit dem Gerät spielen.
 - Ist das Netzkabel beschädigt, muss es vom Hersteller oder seinem Kundendienst ersetzt werden.
 - **WARNUNG:** Ultraviolette Strahlung. Vermeiden Sie direkte oder reflektierte Strahlung.
 - Trennen Sie das Gerät vor dem Austausch der UV-Quelle vom Stromnetz.
 - Betreiben Sie das Gerät nicht, wenn Schutzteile entfernt oder beschädigt sind.
 - Vermeiden Sie die Exposition von Augen und Haut gegenüber UV-Strahlung.
-

DK DANISH (DANSK) **SIKKERHEDSADVARSLER**

- Apparatet er ikke beregnet til personer (inklusive børn) med nedsatte evner eller manglende erfaring uden opsyn eller instruktion.
 - Børn skal overvåges for at sikre, at de ikke leger med apparatet.
 - Hvis netledningen er beskadiget, skal den udskiftes af producenten eller servicepartner.
 - **ADVARSEL:** Ultraviolet stråling. Undgå direkte eller reflekteret eksponering.
 - Afbryd apparatet før udskiftning af UV-kilden.
 - Brug ikke apparatet, hvis beskyttelsesdele er fjernet eller beskadiget.
 - Undgå eksponering af øjne og hud for UV-stråling.
-

FR FRENCH (FRANÇAIS) **AVERTISSEMENTS DE SÉCURITÉ**

- Cet appareil n'est pas destiné à être utilisé par des personnes (y compris les enfants) ayant des capacités réduites ou un manque d'expérience, sauf sous surveillance ou instruction.
- Les enfants doivent être surveillés afin qu'ils ne jouent pas avec l'appareil.
- Si le cordon d'alimentation est endommagé, il doit être remplacé par le fabricant ou son service après-vente.
- **AVERTISSEMENT :** Rayonnement ultraviolet. Évitez toute exposition directe ou réfléchie.
- Débranchez l'appareil avant de remplacer la source UV.
- N'utilisez pas l'appareil si des pièces de protection sont retirées ou endommagées.
- Évitez toute exposition des yeux et de la peau aux rayonnements UV.

CZ CZECH (ČEŠTINA)

BEZPEČNOSTNÍ UPOZORNĚNÍ

- Spotřebič není určen pro osoby (včetně dětí) se sníženými schopnostmi nebo nedostatkem zkušeností bez dozoru nebo poučení.
- Děti musí být pod dohledem, aby si se spotřebičem nehrály.
- Pokud je napájecí kabel poškozen, musí být vyměněn výrobcem nebo servisem.
- **VAROVÁNÍ:** Ultrafialové záření. Vyhnete se přímému nebo odraženému záření.
- Před výměnou UV zdroje odpojte spotřebič od napájení.
- Nepoužívejte spotřebič, pokud jsou ochranné části odstraněny nebo poškozeny.
- Zabraňte vystavení očí a pokožky UV záření.

ES SPANISH (ESPAÑOL)

ADVERTENCIAS DE SEGURIDAD

- Este aparato no está destinado a personas (incluidos niños) con capacidades reducidas o falta de experiencia, salvo bajo supervisión o instrucción.
- Los niños deben ser supervisados para evitar que jueguen con el aparato.
- Si el cable de alimentación está dañado, debe ser sustituido por el fabricante o su servicio técnico.
- **ADVERTENCIA:** Radiación ultravioleta. Evite la exposición directa o reflejada.
- Desconecte el aparato antes de sustituir la fuente UV.
- No utilice el aparato si las protecciones están retiradas o dañadas.
- Evite la exposición de ojos y piel a la radiación UV.

PL POLISH (POLSKI)

OSTRZEŻENIA BEZPIECZEŃSTWA

- Urządzenie nie jest przeznaczone do użytku przez osoby (w tym dzieci) o ograniczonych zdolnościach lub braku doświadczenia, chyba że są nadzorowane lub poinstruowane.
- Dzieci powinny być nadzorowane, aby nie bawiły się urządzeniem.
- Uszkodzony przewód zasilający musi zostać wymieniony przez producenta lub serwis.
- **OSTRZEŻENIE:** Promieniowanie UV. Unikaj bezpośredniego lub odbitego promieniowania.
- Odłączyć urządzenie przed wymianą źródła UV.
- Nie używać urządzenia, jeśli osłony są usunięte lub uszkodzone.
- Unikaj narażenia oczu i skóry na promieniowanie UV.

EL GREEK (ΕΛΛΗΝΙΚΑ)

ΠΡΟΕΙΔΟΠΟΙΗΣΕΙΣ ΑΣΦΑΛΕΙΑΣ

- Η συσκευή αυτή δεν προορίζεται για χρήση από άτομα (συμπεριλαμβανομένων παιδιών) με μειωμένες σωματικές, αισθητηριακές ή πνευματικές ικανότητες, ή με έλλειψη εμπειρίας και γνώσεων, εκτός εάν επιβλέπονται ή έχουν λάβει οδηγίες σχετικά με τη χρήση της συσκευής από άτομο υπεύθυνο για την ασφάλειά τους.
- Τα παιδιά πρέπει να επιβλέπονται ώστε να διασφαλίζεται ότι δεν παίζουν με τη συσκευή.
- Εάν το καλώδιο τροφοδοσίας είναι κατεστραμμένο, πρέπει να αντικατασταθεί με ειδικό καλώδιο ή συγκρότημα που διατίθεται από τον κατασκευαστή ή από εξουσιοδοτημένο κέντρο σέρβις.
- **ΠΡΟΕΙΔΟΠΟΙΗΣΗ:** Υπεριώδης ακτινοβολία. Αποφύγετε την έκθεση σε άμεση ή ανακλώμενη ακτινοβολία.
- Αποσυνδέστε τη συσκευή από την παροχή ρεύματος πριν αντικαταστήσετε την πηγή UV.
- Μην λειτουργείτε τη συσκευή εάν το προστατευτικό περίβλημα ή τα προστατευτικά μέρη έχουν αφαιρεθεί ή έχουν υποστεί ζημιά.
- Αποφύγετε την έκθεση των ματιών και του δέρματος σε υπεριώδη ακτινοβολία.

SA ARABIC — العربية

تحذيرات السلامة

- هذا الجهاز غير مخصص للاستخدام من قبل الأشخاص (بما في ذلك الأطفال) الذين لديهم قدرات بصرية أو حسية أو عقلية محدودة، أو نقص في الخبرة والمعرفة، ما لم يتم إشرافهم أو تعليمهم على استخدام الجهاز من قبل شخص مسؤول عن سلامتهم.
- يجب مراقبة الأطفال لضمان عدم لعبهم بالجهاز.
- إذا تلف سلك الإمداد، يجب استبداله بسلك خاص أو مجموعة متوفرة من الشركة المصنعة أو وكيل الخدمة الخاص بها.
- تحذير: إشعاع فوق بنفسجي. تجنب التعرض للإشعاع المباشر أو المنعكس.
- أفضل الجهاز عن مصدر الطاقة قبل استبدال مصدر الأشعة فوق البنفسجية.
- لا تشغيل الجهاز إذا تم إزالة الغلاف الواقي أو الأجزاء الواقية أو إذا كانت تالفة.
- تجنب تعرض العينين والجلد للإشعاع فوق البنفسجي.

IMPORTANT SAFETY INFORMATION

READ AND FOLLOW ALL INSTRUCTIONS



Read these instructions carefully before installing or using the appliance. Keep this instruction manual for future reference. Failure to follow these instructions may result in electric shock, exposure to hazardous UV radiation, or damage to the appliance.

GENERAL SAFETY WARNINGS

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Always disconnect the appliance from the power supply before carrying out maintenance, cleaning or lamp replacement.
- Do not operate the appliance if the protective enclosure or protective parts are removed or damaged.

UV-C RADIATION SAFETY WARNINGS

WARNING - UV radiation is dangerous to the eyes and skin.
Do not operate the UV-C emitter outside the appliance.



- This appliance contains a UV-C emitter.
- Operation of the appliance with the UV-C emitter removed from the appliance enclosure is prohibited.
- Operation of the appliance with damaged housing may result in exposure to hazardous UV-C radiation.
- The UV-C emitter must be switched off and disconnected from the power supply before opening the appliance.



INTENDED USE

- This appliance is intended exclusively for the treatment of water using ultraviolet (UV-C) radiation.
- The appliance is intended for use in aquariums, ponds, garden ponds and similar water systems.
- This appliance is not intended for use with drinking water.
- The appliance is intended for use with water only.



FORESEEABLE MISUSE

The following uses are considered misuse and are prohibited:

- Operation of the appliance without water flow
- Operation of the appliance with damaged housing, quartz sleeve or seals
- Operation of the UV-C emitter outside the appliance
- Use of the appliance for purposes other than water treatment
- Modification of the appliance or use of non-approved components

Unintended use of the appliance or damage to the housing may result in the escape of hazardous UV-C radiation.

SAVE THESE INSTRUCTIONS

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IMPORTANT SAFETY INFORMATION



ELECTRICAL SAFETY

- The appliance must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.
- The appliance must only be connected to a power supply of the voltage and frequency specified on the rating label.
- Do not use extension leads or adapters.
- Do not operate the appliance if the power cable or plug is damaged.

WARNING - (USA models): Risk of electric shock. Connect only to a branch circuit protected by a GFCI. If you cannot verify GFCI protection, contact a qualified electrician.

WATER AND INSTALLATION SAFETY

- The appliance shall only be installed in accordance with these instructions.
- The appliance shall not be installed where it may be subject to freezing conditions.
- The appliance shall only be operated within the specified minimum and maximum water temperatures of 0° to 40°.
- The appliance shall only be operated within the specified maximum operating pressure.
- Max operating pressure - 2.5 Bar (37 PSI)

INSTALLATION INSTRUCTIONS

- Install the appliance only in accordance with these instructions.
- Ensure that the appliance is correctly supported and that no mechanical stress is applied to the housing or pipe connections.
- Ensure that all electrical connections are protected from water ingress.

COMMISSIONING AND OPERATION

- Fill the system with water before connecting the appliance to the power supply.
- Check the appliance for leaks before switching on.
- Do not operate the appliance without water flow.
- During normal operation, the appliance may become warm.

UV-C EMITTER REPLACEMENT

WARNING - Disconnect the appliance from the power supply before replacing the UV-C emitter.

- Only replacement UV-C emitters specified by the manufacturer may be used.
- The UV-C emitter shall never be operated outside the appliance.
- After replacing the UV-C emitter, ensure that all seals are correctly installed before reconnecting the appliance to the power supply.

SAVE THESE INSTRUCTIONS

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IMPORTANT SAFETY INFORMATION



MAINTENANCE AND CLEANING

WARNING - Disconnect the appliance from the power supply before carrying out maintenance or cleaning.

- Clean the quartz sleeve at regular intervals to maintain UV performance.
- Only use clean water and a soft cloth for cleaning.
- Do not use abrasive cleaners or solvents.

FAULT CONDITIONS

- If the appliance shows signs of malfunction, unusual noise, leakage or damage, disconnect it immediately from the power supply.
- Do not operate the appliance if it is visibly damaged.
- Repairs shall only be carried out by qualified personnel or the manufacturer.

DISPOSAL

- This appliance shall not be disposed of with household waste.
- Electrical and electronic equipment must be disposed of in accordance with local regulations.
- UV-C emitters shall be disposed of in accordance with applicable waste regulations.

Your product is designed and manufactured with high quality material and components, which can be recycled and reused. When this crossed out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC. Please contact your local authority about correct disposal for electrical and electronic equipment. Our WEE Registration Number is WEE/FE1471RR.



Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

COMPLIANCE INFORMATION

This appliance has been designed and manufactured in accordance with the following standards and directives:

IEC / EN 60335-1

IEC / EN 60335-2-109

Low Voltage Directive 2014/35/EU

Electromagnetic Compatibility Directive 2014/30/EU

UK Electrical Equipment (Safety) Regulations

SERVICE INFORMATION

For service, spare parts or technical support, contact the manufacturer or authorised service agent. Repairs carried out by unauthorised persons may result in loss of warranty and non-compliance.

SAVE THESE INSTRUCTIONS

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INTRODUCING EVOLUTION AQUA'S EVOUV AQUARIUM STERILISER

Congratulations on purchasing an Evolution Aqua evoUV Aquarium Steriliser.

Evolution Aqua evoUV sterilisers are made using the latest technology and design techniques with a fully UV stabilised, tough outer casing, to ensure that the water will flow effectively within the unit, allowing the ultraviolet light to damage and destroy algae and disease pathogens as they pass through.

Please read this instruction manual carefully from start to finish before attempting to install your evoUV.

UNBOXING THE evoUV

On opening the box, you can see that the UV bulb and quartz sleeve are packed separately for safe transit. Please refer to pages 10 and 16 of this manual for instructions on how to install the bulb and quartz sleeve. Quartz Sleeve O-Rings and End Cap O-Rings are packed in separate small bags inside the box.

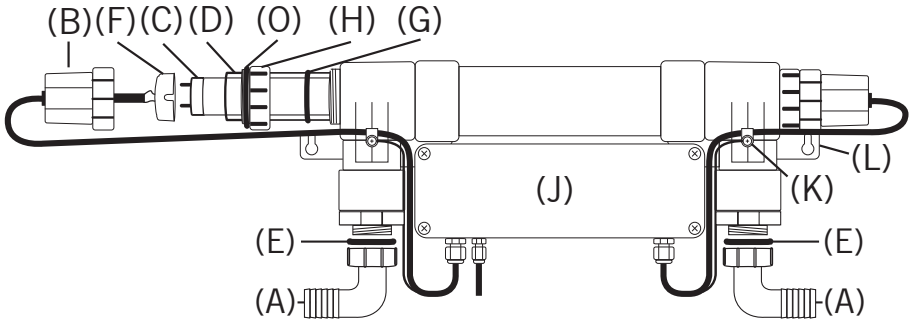
Stainless steel mounting brackets and screws, and the hoesail fittings are also supplied in bags inside the packaging and need to be fitted.

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evoUV DIAGRAMS AND COMPONENTS LIST

Please familiarise yourself with the components shown in the diagram below:



Description	Label	Qty	Order Code
Inlet / Outlet - 19mm Hosetail	A	2	050519
End Cap	B	2	EVOCONNUT
UV Bulb - 15W T8 or 25W T8	C	1	Available from your EA dealer
Quartz Sleeve	D	1	Available from your EA dealer
Hosetail White Flat Washer	E	2	-
Bulb Socket	F	2	LAMPHOLDER-T8
Quartz Sleeve O-Ring	G	2	EVOUVORING2
Locking Nut	H	2	EVO-M/F
Electrical Box	J	1	Available from your EA dealer
Cable Clip	K	2	-
Mounting Bracket	L	2	-
End Cap O-Ring	O	2	UVECORING

IDENTIFYING THE O-RINGS

These are packed in small bags inside the packaging.

Spare Part Order code: **EVOUVSPARESML**

You will receive two Quartz Sleeve O-Rings and two End Cap O-Rings with this spare part.



2 x Quartz Sleeve O-Ring (**G**)



2 x End Cap O-Ring (**O**)

FLOW RATES

We do not recommend the use of pumps with operating pressures in excess of 2.5 bar (37 psi).

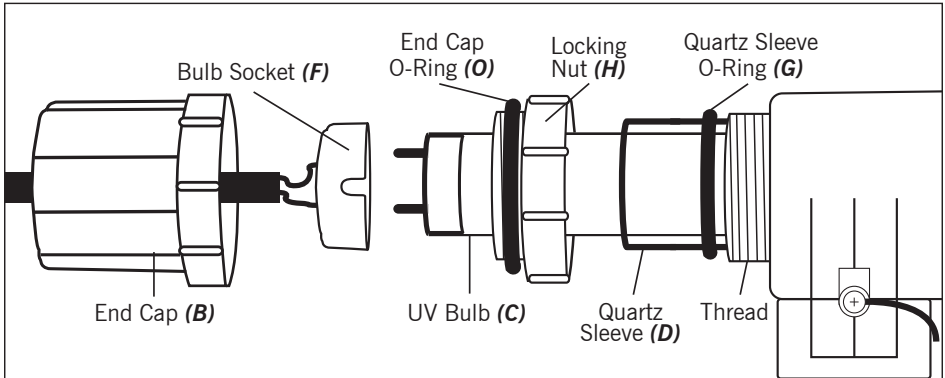
Model	Max. aquarium size	Max. flow rate	Bulb power	Inlet / Outlet	Fittings supplied
evo15	400 Litres 90 UK Gallons 110 US Gallons	1,500 Litres/hr 330 UK Gallons/hr 396 US Gallons/hr	15W (1 x 15W T8)	1½"	19mm Threaded Hosetails
evo25	600 Litres 130 UK Gallons 160 US Gallons	2,000 Litres/hr 330 UK Gallons/hr 528 US Gallons/hr	25W (1 x 25W T8)	1½"	19mm Threaded Hosetails

The evoUV Aquarium UV steriliser can be used either as a clarifier, to damage water born green algae cells (green water) or as a steriliser, to help to control disease pathogens. When compared to the evoUV for ponds, the evoUV Aquarium Steriliser comes with a narrower inner-pipe to ensure that the aquarium water is held much closer to the UV bulb as it passes through the unit.

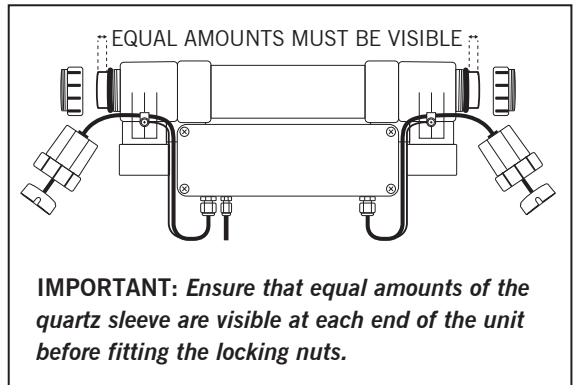
To be an effective steriliser contact time, as well as close proximity to the bulb, is key, so we recommend that maximum pump flows of 1,500 lph for the 15 watt and 2,000 lph for the 25 watt are not exceeded. Larger flow-through can be achieved although may not achieve the same result in terms of sterilisation.

For larger system volumes or increased sterilisation capacity multiple units can be connected together with either flexible or rigid pipework (not supplied). For best possible sterilisation results use an over-rated unit with an under-rated flow rate, and replace the UV bulb with new every six months. Always combine with effective mechanical filtration to remove debris from the water and to capture dead and damaged algae cells. If using multiple evoUV Aquarium UV Sterilisers, connection in parallel, rather than series is advised for best sterilisation results.

INSTALLING THE QUARTZ SLEEVE



1. Starting at one end of the unit, unscrew the black end cap (**B**). You will notice that this black end cap houses the bulb socket (**F**).
2. Unscrew the white locking nut (**H**) from the same end.
3. Repeat steps 1 and 2 at the other end of the unit.
4. Take the quartz sleeve (**D**) from the packaging box and slide it through the UV until it finds the hole at the far end of the unit.
5. Take the quartz sleeve O-Ring (**G**) and fit it around one end of the quartz sleeve.
6. Slide this quartz sleeve O-Ring (**G**) towards the thread on the UV body, ensuring that equal amounts of quartz sleeve are visible at each end of the unit.
7. Fit the quartz sleeve O-Ring (**G**) at the other end of the quartz sleeve, again ensuring that equal amounts of quartz sleeve are visible at each end of the unit.
8. Now screw the white locking nut (**H**) back into position.
9. Ensure the locking nut is **HAND TIGHTENED** to prevent causing damage to the O-Ring. No tools are needed.
10. Repeat steps 8 and 9 at the other end of the unit.
11. The quartz sleeve is now in position ready to take the UV bulb.
12. Run for 24 hours to check the installation is correct with no leaks. See page 14 for details. Re-install if any leaks are detected - if no leaks proceed to lamp installation.

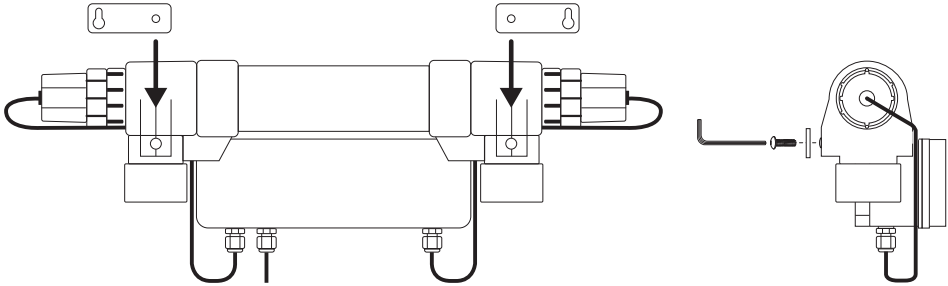
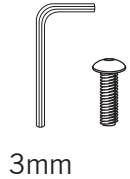


HAND TIGHTEN FITTINGS ONLY - DO NOT USE TOOLS

POSITIONING AND MOUNTING THE evoUV

Fitting mounting brackets

Stainless steel brackets and screws can be found in bags inside the packaging. You will need to install these mounting brackets to the **rear of the UV** at each end using a 3mm allen key. **HAND TIGHTEN ONLY.**



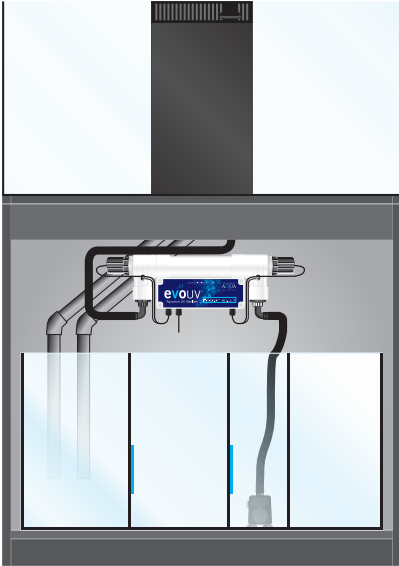
You can position your evoUV either horizontally or vertically.

Your evoUV must not be submerged in water or placed in a position where water may collect around the unit. The electrics within the evoUV units are sealed in a shower proof unit.

Fix your evoUV into position using the stainless steel mounting brackets. Screws and washers for installation are not provided.

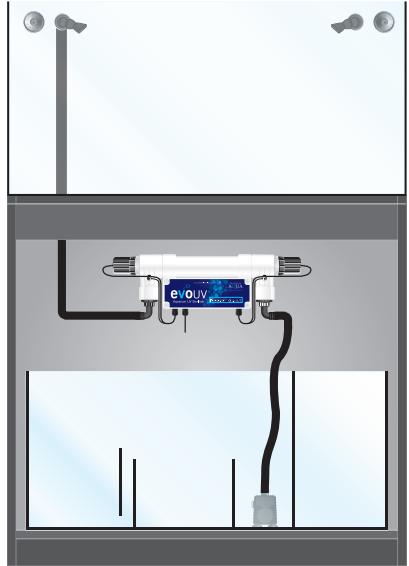
It is advisable to install the evoUV where it can be easily accessed or removed after water testing and for bulb replacement and maintenance.

POSITIONING AND MOUNTING THE evoUV



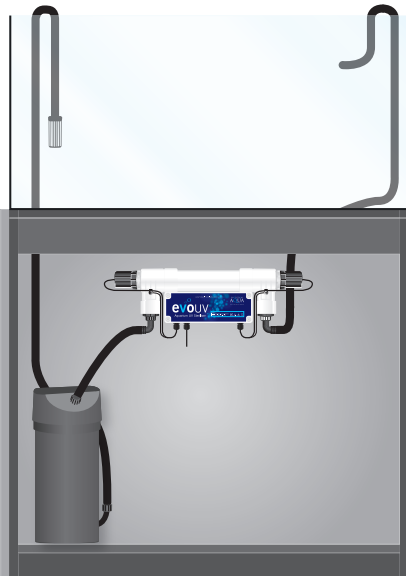
evoUV connected to pump in sump

Fit evoUV to pump return to main aquarium using hard pipe.



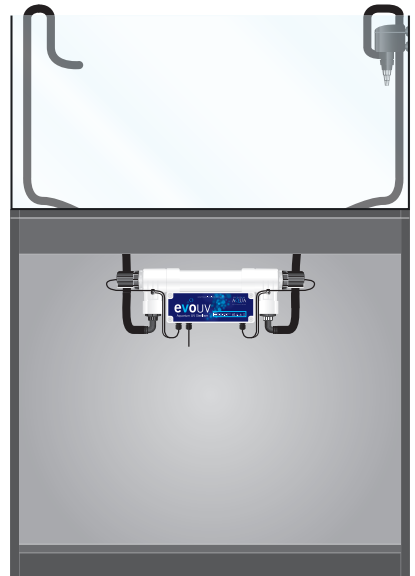
evoUV connected to pump in sump

Fit evoUV to pump return to main aquarium using flexi pipe.



evoUV connected to external filter

Fit evoUV to outlet return hose to aquarium.



evoUV on a closed loop system

Fit evoUV to a hose from pump or powerhead.

CONNECTION TO YOUR PIPEWORK

IMPORTANT: *Do not overtighten fittings.*

evoUV Aquarium UV Steriliser is supplied with 19mm hosetails, complete with nuts and white flat rubber washer. Place the hosetail and nut over the male thread at each end of the unit. Rotate the hosetail to the position of your choice before doing up the nut until hand tight. The nut should be tight enough to prevent leaks but not overtightened using tools as it may crack or damage the thread.

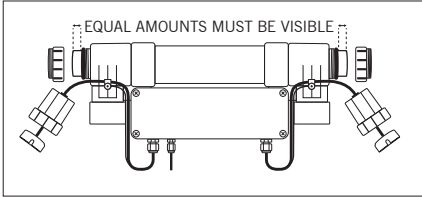
Slide flexible pvc hose (not supplied) over the barb of the hosetail at each end. This can be eased by dipping the end of the flexible pvc hose into hot water for ten or more seconds, which will soften it, make it more stretchy and the water will help to lubricate it.

If the hose is of the correct corresponding internal diameter no extra hose clips should be necessary, although for extra safety and owner peace of mind, non-corrosive hose clips can be used (not supplied).

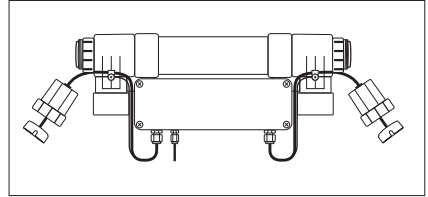
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WATER TESTING THE QUARTZ, O-RINGS AND LOCKING NUTS

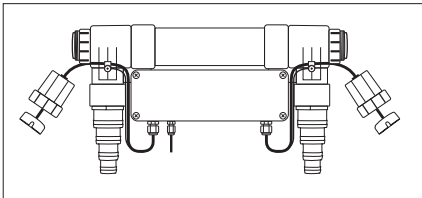
Now that the unit is in position and connected to pipework, the quartz sleeve and O-ring at each end can be leak tested to ensure that they have been fitted properly. Failure to test for leaks and improper installation at this stage may cause water to seep into and damage the bulb socket.



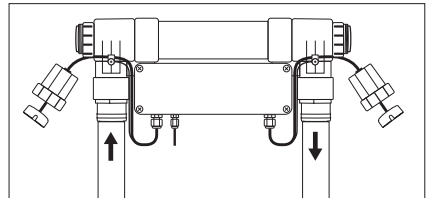
STEP 1: Fit quartz sleeve, o-rings and locking nuts.



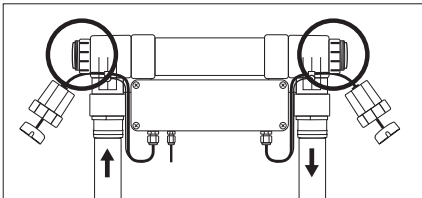
STEP 2: Check the locking nuts are hand tight only.



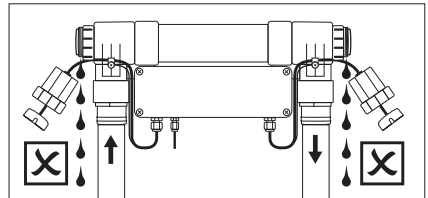
STEP 3: Position and mount UV and connect inlet and outlet connections.



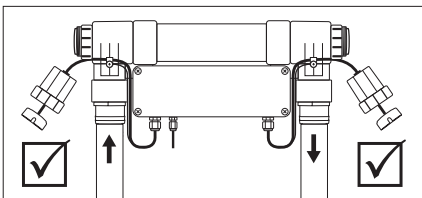
STEP 4: Connect up to pipework and turn on pump to start water flow.



STEP 5: Check locking nuts for signs of water leaking.



STEP 6: If water seeps from locking nuts, check quartz sleeve installation. See Troubleshooting on page 18.



STEP 7: If no water leaks, quartz sleeve has been properly installed. Proceed to connecting the UV to the power supply.



WARNING

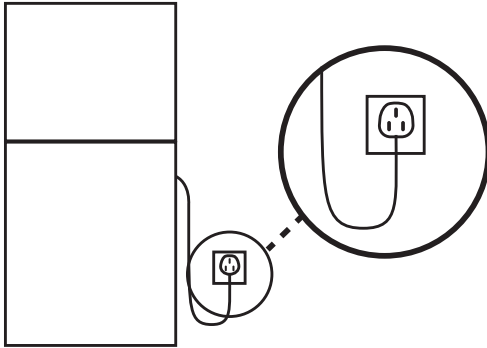
Failure to test for leaks and improper installation at this stage may cause water to seep into and damage the bulb socket and ballast. Water damage from improper installation is **NOT** covered under warranty.

CONNECTION TO THE ELECTRICITY SUPPLY

Electrical installations must be done by a qualified electrician.

evoUV Aquarium UV Steriliser comes supplied with a fitted plug.

Always ensure that a drip loop is maintained when using any electrical equipment around an aquarium. See illustration:



Always ensure that a drip loop is maintained when using any electrical equipment around an aquarium.

The power supply must meet the specifications on the product.

The cores in the supply cable are coloured in accordance with the following code:

Brown = Live. Blue = Neutral. Earth = Green/Yellow (WHERE FITTED).

Do not use the supply cable to lift the evoUV as this may cause damage.

WARNING - A Residual Current Device (RCD), also known as the Residual Current Circuit Breaker (RCCB), with a tripping current not exceeding 30mA must be installed in the supply circuit. A means of disconnection from the supply having a contact separation of at least 3mm in all poles must be incorporated in the wiring.

Caution: Always disconnect all appliances from the mains supply before carrying out any sort of maintenance.

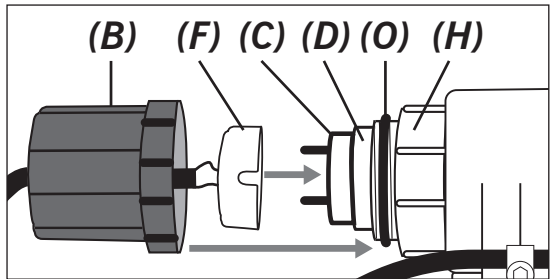
All electrical installations and wiring must be adequately protected to prevent any damage.

Enough electrical cable is supplied with the unit to connect to the mains electric. This unit must be connected to permanent wiring. A switch with 3mm contact separation must be provided in the fixed wiring to provide disconnection from the electricity supply.

INSTALLING THE UV BULB

1. Remove all packaging from the UV bulb **(C)**.
2. Slide the UV bulb **(C)** carefully through the quartz sleeve **(D)** that you have fitted, as per the instructions on page 10.
3. While holding one of the black end caps **(B)** gently push the cable through the end cap which will make it easier to fit the bulb socket **(F)** in step 5.
IMPORTANT: Do not pull the cable by holding just the bulb socket.
4. Fit the End Cap O-Ring **(O)** over the thread on the white locking nut.
IMPORTANT: Ensure the End Cap O-Ring is butted up against the locking nut collar.

5. In no particular order, align the UV bulb pins with the holes in the bulb socket and carefully push the bulb socket firmly onto the UV bulb pins. You may need to hold the other end of the UV bulb to help you fit the socket.
6. Ensure the UV bulb socket is firmly connected to the UV bulb.



7. Repeat steps 3 to 6 at the other end of the unit.
8. Now at one end of the unit, slide the black end cap (checking that the sealing ring in position) over the bulb socket while carefully holding the cable to prevent the bulb connector disconnecting from the UV bulb.
9. Screw this end cap onto the thread on the white locking nut **(H)** already connected to the UV body. **HAND TIGHTEN ONLY.** This will then compress the End Cap O-Ring to form a watertight seal.
10. Repeat steps 8 and 9 at the other end of the unit.
11. Check that all of the fittings are hand tightened. No tools are needed.
12. On multiple bulb units, do not mix up the bulb connectors as this will result in the bulb not illuminating.

Please ensure that there is enough space at one end of the Aquarium UV to enable bulb / quartz sleeve removal and maintenance.

HAND TIGHTEN FITTINGS ONLY - DO NOT USE TOOLS

UV BULB REPLACEMENT

ALWAYS ISOLATE THE UNIT FROM ANY ELECTRICITY AND WATER SUPPLIES BEFORE CARRYING OUT MAINTENANCE ON THE UNIT.

TO REMOVE A UV BULB:

It is not necessary to stop the water circulating through the evoUV to change the bulb.

1. Disconnect the electricity supply.
2. Unscrew the black end cap at one end of the unit. Take care not to unscrew the white locking nut and ensure the End Cap O-Ring remains in place.
3. Carefully slide the black end cap over the wire to reveal the bulb socket.
4. Disconnect the bulb socket.
5. Repeat steps 2 to 4 at the other end of the evoUV.
6. With the end caps out of the way, carefully slide out the UV bulb.

WARNING: If the end caps / electrical connections get wet during this procedure, please ensure that they are thoroughly dried before re-connecting.

TO INSTALL A NEW UV BULB:

Follow the instructions on **page 16** to fit a new UV bulb.

IMPORTANT: After checking all the fittings are correctly tightened you can switch your unit back on.

Dirt or limescale building up on the quartz sleeve will inhibit the penetration of the ultraviolet light into the water and affect the efficient working of the unit.

REPLACING / CLEANING QUARTZ SLEEVE

DANGER: ULTRAVIOLET RADIATION. Disconnect Power Before Replacing Lamp
ALWAYS ISOLATE THE UNIT FROM ANY ELECTRICITY AND WATER SUPPLIES BEFORE CARRYING OUT MAINTENANCE ON THE UNIT.

TO REMOVE A QUARTZ SLEEVE:

PLEASE NOTE: Removing the quartz sleeve will cause water to flow out of the unit.

1. Remove the UV bulb as described on page 17.
2. With the electricity supply disconnected, evoUV isolated and UV Bulb removed, unscrew the locking nut at one end of the evoUV, ensuring the End Cap O-Ring remains in place.
3. Carefully remove the quartz sleeve O-Ring and keep safe.
4. Unscrew the locking nut from the other end, ensuring the End Cap O-Ring remains in place, and remove the quartz sleeve O-Ring and keep safe.
5. Carefully remove the quartz sleeve taking care not to allow it to drop inside the UV body.
6. To drain any water that may be left in the unit, we would recommend that you unscrew the mounting bracket(s), disconnect the unit from the pipework, and tilt the unit to drain the chamber of water.
7. Clean the sleeve and polish with a soft cloth or paper towel. *If you live in a hard water area, you may get limescale on the quartz sleeve; this can be easily removed by using vinegar or a cold water descaler.*

WARNING: If the end caps / electrical connections get wet during this procedure, please ensure that they are thoroughly dried before re-connecting.

TO RE-INSTALL A QUARTZ SLEEVE:

Follow the instructions on **pages 10 and 17** to re-install the quartz sleeve and UV bulb.

IMPORTANT: After checking all the fittings are correctly tightened you can switch your unit back on.

TROUBLESHOOTING

During this procedure or if you notice water leaking from around the end caps you should check the following:

1. Check the O-Ring is undamaged.
2. Check there are no cracks and breaks in the quartz sleeve.
3. Check that the locking nut is compressing the O-Ring to form a water tight seal.
4. Check that the end caps are sufficiently tight.
5. All components are clean and free from dirt and debris.

***Please note that service items are not subject to a claim under warranty. The service items listed on page 8 are available from your EA stockist.**

ELECTRICAL BALLAST BOX REPLACEMENT

The electrical box with ballast can be easily replaced in the event of any electrical issues. This easy to install box comes with a ballast enclosed, lamp connectors, end caps and mains cable so it can be easily swapped over in the event of any electrical issues.

Use the installation instructions provided with the spare part.

Spare electrical boxes are available to buy from your Evolution Aqua dealer or via our spare parts store on our website.

IN BUILT PROTECTION

The evoUV range of aquarium sterilisers have thermal overload protection which automatically shuts down and then enables a fast re-start when the problem has been cleared. This may be as a result of water in the end caps. Please see the troubleshooting section.

Thermal Overload Protection -

This will automatically switch off the unit should the temperature exceed the maximum operating temperature limits.

Automatic start up and shut down protection -

This protects the electrical components in the event of a power surge.

TROUBLESHOOTING

If the UV bulb is not lit, then you need to investigate the power to your unit.

- Has your RCD tripped? If yes, check your wiring and reset.
- Examine the UV bulb for signs of failure, and replace if necessary.
- Is the UV bulb fitted correctly? Unscrew the end caps and ensure correct fitting as per the instructions as described in this manual.
- Are the end caps dry? If not, allow to dry thoroughly. We recommend the use of a hair-dryer for this.
- Possible ballast failure. The ballast in your aquarium can easily be replaced, visit our website www.evolutionaqua.com and check the aquarium UV section for further information.

The unit is leaking from the bulb fittings

This could be caused by an incorrectly fitted, damaged or overtightened O-ring on the quartz sleeve. Please check the quartz sleeve O-ring, reposition it or if necessary replace it with a new one.

IMPORTANT: Do not fit the bulb socket or end cap until the issue is solved.

If water enters the bulb socket it can cause irreparable damage to bulb socket and ballast. Damage caused by improper fitting of the quartz sleeve, O-rings and locking nuts are not covered under warranty.

Since fitting the evoUV my pump flow is restricted

In order to be an effective steriliser the void space inside evoUV has been narrowed to force the water closer to the harmful UV. This is deliberate and a reduction in pump flow is expected. For greater flow capability connect multiple evoUV devices in parallel. Note high flow rates are not conducive to effective sterilisation results. For optimum sterilisation through an evoUV a small, restricted flow should always be used. This helps to ensure a long exposure to harmful UV, every time disease pathogens pass.

Water is dripping from the hosetails

This means that the hose used is not a perfect match in terms of its internal diameter and wall diameter. A marine safe hose clip (not supplied,) will prevent this by fitting one on each hosetail and tightening it.

Water is dripping from the hosetail nut

This means that the nut has not been correctly tightened, or has not properly threaded onto the male thread. Check that the rubber washer is inside the nut (important,) then refit it and do it up. PTFE tape can be added for a greater seal around the male thread (not supplied).

FREQUENTLY ASKED QUESTIONS

How often should I change the UV bulb?

For optimum sterilisation results change the bulb every six months.

Will it make my fish completely disease free?

No. The evoUV can only ever be effective on the water borne life stage of some disease pathogens. It is not effective on any disease which is already on the fish's body and does not have a mobile, water borne life stage. evoUV can be effective at lowering numbers of water borne pathogens and helping to prevent the spread of pathogens from tank to tank on centralised fish systems, if set up correctly.

It can only ever be effective on pathogens which pass inside the unit, and are directly exposed to the harmful UV rays emitted by the UV bulb. If this is the case, it can be a very effective at lowering pathogen numbers in the water and helping to spread water borne pathogens from tank to tank.

Do I need to turn it off if combining with medications?

Yes, this is because the Ultra Violet light may degrade the medication being administered to the water. Read the instructions provided with the medication and take the manufacturer's advice.

GUARANTEE

This product is guaranteed against defects in material and workmanship for 2 years from the date of purchase, under normal usage. The guarantee DOES NOT APPLY in case of improper use, negligence, lack of maintenance or accidental damage to the evoUV. If the evoUV fails due to a manufacturing fault within this period it will be either repaired or replaced free of charge. Liability is limited to replacement of the faulty product only; no other costs will be reimbursed. This guarantee is not transferable and does not affect your statutory rights. This guarantee does not confer any rights other than those expressly set out above. This guarantee does not cover the evoUV bulb or quartz sleeve.

The manufacturer or supplier shall not be responsible, or held liable for any damages caused by defective components or materials of this product; or for loss incurred by interruption of service; or any consequential/incidental damages and expenses arising from the production, sale use or misuse of this product or any other consequential loss.

IMPORTANT: Please keep your proof of purchase (sales receipt) safe for the duration of the warranty period, as this will be needed in the event of a warranty claim.

Evolution Aqua and its dealers shall not be held liable for any loss of fish, plants or any other livestock as a result of any failure or defect of this product.

The installation and use of your product outside of our recommendations as printed in this manual may also void the warranty.

REGISTER YOUR WARRANTY ONLINE

The easiest way to register your warranty is to visit our website online at
www.evolutionaqua.com/product-warranty

NOTES

VISIT OUR WEBSITE AND FOLLOW US ON SOCIAL MEDIA



For all the latest Evolution Aqua news sign up to our email newsletter to have the newest info delivered direct to your inbox. Keep up to date by following us on social media, join our Pond Owners Club on Facebook or check out our website for technical information and product advice at www.evolutionaqua.com.



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