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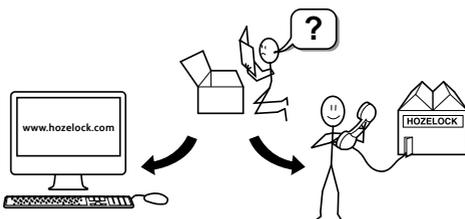


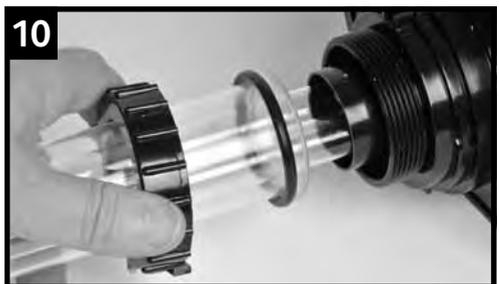
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33134-001





⚠️ INSTALLATION AND OPERATING INSTRUCTIONS. READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION. KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

This Vorton Ultra Violet Clarifier is electrically operated and designed to work with an existing pond filtration system. Typically this should consist of a mechanical and biological filter, filter pump and connecting hose. The unit is only suitable for outside use.

Attention: UV Caution

This appliance contains a UV-C emitter. Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in little doses, cause harm to the eyes and skin. The Lamp is fitted with an interlock that will turn the lamp off in the event that the housing is inadvertently opened. When switched on, the lamp can be checked for operation by looking for a bluish glow from the translucent hosietails, sight window. Do not run the Vorton UVC dry.

Important

The 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 this appliance is obviously damaged it must not be operated.

(Australia & NZ only). This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance.

Warning: Safety & Electrical Connections

- 1.1 **WARNING:** ALWAYS UNPLUG OR DISCONNECT ALL APPLIANCES IN THE POND FROM THE ELECTRICITY SUPPLY BEFORE PUTTING YOUR HANDS IN THE WATER WHILST EQUIPMENT IS BEING INSTALLED, REPAIRED, MAINTAINED OR HANDLED.
- 1.2 The clear tube inside the unit is made from quartz glass and care should be taken during installation and maintenance. We recommend the use of eye protection and suitable gloves.
- 1.3 The Vorton UVC is weatherproof but not submersible. Position the unit horizontally near the pond but not where it can fall into the water or become waterlogged.
- 1.4 **Important:** This product is designed to be permanently wired to the mains supply. For connection to the mains supply use only 3-core cable (ref H05 RN-F). This has a minimum copper cross-section of 0.75mm² with Polychloroprene-Rubber insulation. The termination to the mains supply should be:
 - a) Permanent.
 - b) Inside a dry weatherproof enclosure.
 - c) Through a double pole switched fused spur to BS 3676.

d) Fitted with a 3 or 5 amp fuse.

- 1.5 Exposed cable runs should be sensibly positioned and protected by armoured conduit, especially if there is a risk of contact with gardening equipment such as forks and lawnmowers, or children and domestic animals.
- 1.6 A 30mA maximum Residual Current Device (RCD) MUST be fitted to the mains supply.
- 1.7 Permanent installations to the mains supply (hard wiring), must conform to the National and Local wiring regulations. If in any doubt about wiring to the mains supply, consult a qualified electrician or local electricity authority.
- 1.8 Protect from frost. In cold winter weather (when fish are inactive and algae growth ceases) the unit may be switched off. It should then be removed, drained of water.

General Guidance

- 2.1 **Performance** - We recommend that for maximum performance this product should be used with a Hozelock Cyprio filter pump and filter. The unit should be run 24 hours a day throughout the feeding season. Failure to do this may result in green water and will invalidate the Clearwater Guarantee.
- 2.2 **Flow Rate** - For best results the entire contents of the pond should pass through the Vorton UVC every 1½ - 2½ hours. We recommend that your pump is sized to supply the required flow rate against the full hydraulic head (the vertical distance between the pond water surface and filter inlet, plus an allowance of 0.6-0.9m, (2-3ft), for hose friction losses).
- 2.3 **Pressure Rating** - These Vorton UVC models have a maximum pressure rating of 0.7bar (or 7m, 0.07Mpa). The unit is therefore unsuitable for filtration systems that produce high levels of back pressure such as sand filters.
- 2.4 **Pond Treatments** - Some medications/ treatments can degrade very quickly by UVC radiation. Switch off the unit during disease treatment.
- 2.5 Extra care should be taken with any hose connections as leaks will result in loss of water from the pond.
- 2.6 **Spare Parts** - Use only genuine Hozelock Cyprio replacement parts.

Installation

- 3.1 The Hozelock Cyprio Vorton UVC can be added to most filter systems before or after filtration, the effect is the same. The water must be pumped through the unit - not gravity fed. A typical installation is shown in fig. 1.
- 3.2 **Location** - the unit MUST be installed horizontally and on a solid surface. The lid of a filter may be suitable if sturdy enough.
- 3.3 To mount the unit, remove the electrical head. See 5.3 Using 2 suitable fixings, screw the base to the mounting surface. (See fig. 2).
- 3.4 Cut two universal hose tails (supplied) to suit the correct size of hose. Fit the hose tails to the inlet and outlet threaded connections using the seals and threaded nuts supplied (see fig. 3). Push the inlet and outlet hose onto the hose tails and secure with a suitable hose

clip. We recommend the use of Hozelock Cyprio Hose and Hose Clips (available separately). Avoid kinks and sharp bends. Keep hose lengths as short as possible to minimise losses in flow.

3.5 To fit the lamp refer to Section 5.1

3.6 **Warning.** This appliance must be earthed.

3.7 Refer to Section 1, Safety and Electrical Connections, for termination to the mains supply. The supply cable of this Vorton UVC cannot be Replaced, if the cable is damaged the UVC should be scrapped. We recommend that the pump and UVC are connected to the same supply so that they can be switched off together.

3.8 Switch the pump and Vorton on and check for leaks. Check the lamp is operating by looking for a bluish glow from the sight window.

User Instructions

4.1 Coupled to a Hozelock Cyprio pond filter and filter pump, a Vorton UVC should produce clear water within two weeks. However, UV light can delay filter maturation. When installing a new biological filter, allow 6 - 8 weeks before switching on the UVC. Speed up maturation by adding a maturing agent such as Hozelock Cyprio filter start. During maturation your pond may go green, but should be clear within two weeks of switching on your Vorton UVC. Ammonia and nitrite levels may initially rise due to decomposition of algae trapped in the filter. (Check these levels with Hozelock Cyprio test kits). Should this occur, stop feeding until ammonia and nitrite levels fall, whereafter feeding may be gradually increased to normal levels. Run the filter and Vorton UVC 24 hours a day during the feeding season. Should you need to switch off the pump and filter, also switch off the Vorton UVC. Continued filtration in winter is recommended. UVC treatment in winter is optional, but if there is any risk of freezing, the unit should be switched off, drained and removed. This will prevent damage to the product.

Maintenance

Always disconnect the electricity supply before starting to handle, maintain, repair or install any equipment in the pond. Read the relevant maintenance instructions before opening the appliance.

5.1 How well your Vorton UVC performs is related to the strength of the UV radiation produced. This will slowly decline from the day your lamp(s) are fitted. The UVC lamp has an effective life of 12 months. You need to change the lamp when there is a significant reduction in water clarity. Make sure this is due to an expired lamp and not a badly maintained filter or a dirty/limescaled quartz sleeve. Both can greatly reduce UV transmission into the water.

5.2 Change the lamp at the start of the new season. Even though the lamp still glows it may not be giving out any useful UV radiation.

5.3 **To fit a replacement lamp:**

i) Push the release button securing the electrical head (See fig. 4). Turn the head anti-clockwise, and pull out. The head should then pull gently away from the main body (See fig. 5).

- ii) Remove the quartz glass tube by removing or loosening the screw on the quartz tube locking ring (See fig. 6), rotating the plastic locking ring anticlockwise and pulling away from the body, (see fig. 7).
- iii) With the lamp holder now accessible, remove the old lamp and push the new lamp into position. The two black spacers that fit onto the lamp, must be fitted in order to prevent possible damage to the lamp/quartz tube (See fig. 8/9)
- iv) Re-assemble the quartz tube into position ensuring the O-ring is positioned over the end of the quartz tube (See fig. 10) before the locking ring is retightened and screw refitted/retightened. Do not attempt to operate the UV lamp when it is removed from the UV Clarifier enclosure.
- v) Re-assemble the head to the body. Using the reverse procedure stated in (i) above (see fig. 4 & 5). There should be an audible click from the release button mechanism when the electrical head and UVC housing are secured together correctly.

5.4 Especially in hard water areas, the quartz tube may become covered in limescale, which will reduce efficiency. To gain access to the tube and lamp refer to section 5.1. Clean the tube with a soft cloth and a gentle de-scaler, rinse in water before refitting. DO NOT SUBMERSE THE UNIT IN WATER.

5.5 Wash out the inside of the main body to remove dirt and debris.

5.6 Always check the system thoroughly for leaks when restarting.

Winter Storage

6.1 When not in use, the unit should be removed, thoroughly washed, dried and stored in a dry frost protected area.

Checklist

7.1 If your Vorton fails to produce clear water, please check the following table before contacting the Helpline.

CHECK	HOW
The UVC lamp is on and glowing	Make sure that the sight window is visible, so that you can see a bluish glow. This may be easier during late evening as it gets dark
The age of the lamp	Keep a record of the date the lamp was installed. We recommend a new lamp be fitted at the start of the new season
The Quartz Sleeve is clean	Refer to section 5.4
That the pump is delivering sufficient flow of water	All the pond water should pass through the Vorton UVC once every 1 ½ - 2 ½ hours. i.e. a 10,000 ltr pond needs a flow rate of between 4000 and 6000 ltr/hr, while trying to achieve as near to the upper limit as possible

CHECK	HOW
The pump is at the opposite end of the pond to the outlet of the filter	Inspection - This is to prevent short-circuiting of the filtration system, the same water being filtered over and over again, while other areas of the pond remain static and unfiltered

Hozelock Cyprio Clearwater Guarantee

WE GUARANTEE YOU CLEAR WATER OR YOUR MONEY BACK for a Hozelock Cyprio Vorton UVC when used with a correctly sized Hozelock Cyprio filter. This guarantee runs for 12 months after purchase, provided that

- You have followed the installation and operating instructions.
- You are using equipment of the correct size, according to Hozelock Cyprio's sizing information.
- You consult our Helpline (0121 313 1122) early enough for any problems to be put right.
- The product has been returned undamaged.

A refund can only be authorised by Hozelock Cyprio and is made only at the place of purchase to the value of the purchase price of the UVC only. Please note that the Clearwater Guarantee does not cover loss of water clarity when blanketweed, as opposed to greenwater algae, is the cause.

Hozelock Cyprio 2 Year Guarantee

If this Vorton UVC (excluding Lamp) becomes unserviceable within 2 years of the date of purchase it will be repaired or replaced at our option free of charge, unless in our opinion it has been damaged. Liability is not accepted for damage due to accident, improper installation or use. Liability is limited to replacement of the faulty unit. This guarantee is not transferable. It does not affect your statutory rights. To obtain the benefits of this guarantee, firstly contact Hozelock Cyprio Consumer Services (0121 313 1122) who may request that the unit is sent along with proof of purchase directly to the address below.

Contact

www.hozelock.com



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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INSTRUCTIONS D'INSTALLATION ET D'UTILISATION. VEUILLEZ LIRE ATTENTIVEMENT CES INSTRUCTIONS AVANT DE PROCÉDER À L'INSTALLATION. CONSERVEZ CES INSTRUCTIONS POUR TOUTE RÉFÉRENCE ULTÉRIEURE.

Cet clarificateur à rayons ultraviolets Vorton électrique est conçu pour fonctionner avec un système de filtration de bassin existant. Ce système doit généralement consister en un filtre mécanique et biologique, une pompe de filtre et un flexible de raccordement. Cet appareil ne convient que pour une utilisation extérieure.

Attention ! Avertissement contre les UV

Cet appareil contient un émetteur d'UV-C. Toute utilisation inappropriée de l'appareil ou endommagement du boîtier peut entraîner la fuite de rayonnements UV-C dangereux. Les rayonnements UV-C peuvent, même à petites doses, causer des lésions des yeux et de la peau. L'ampoule est dotée d'un système de verrouillage qui met la lampe hors tension en cas d'ouverture accidentelle du boîtier. Lorsque la lampe est sous tension, il est possible de vérifier son bon fonctionnement en recherchant une lueur bleutée dans la fenêtre de contrôle translucide des embouts de tuyaux. Ne pas faire fonctionner le Vorton UVC à sec.

Important

Cet appareil n'est pas conçu pour être utilisé par des personnes (y compris les enfants) dont les capacités physiques, sensorielles ou mentales sont réduites ou qui manquent d'expérience ou de connaissances, sauf sous la supervision ou les instructions relatives à son utilisation par la personne responsable de leur sécurité. Les enfants doivent être surveillés afin de s'assurer qu'ils ne jouent pas avec l'appareil. Lorsqu'il est évident que cet appareil est endommagé, il ne doit pas être utilisé.

(Australie & Nouvelle-Zélande uniquement). Cet appareil n'est pas conçu pour être utilisé par de jeunes enfants ou des personnes déficientes, sauf sous la supervision adéquate d'une personne responsable qui doit s'assurer qu'ils peuvent utiliser l'appareil en toute sécurité. Les jeunes enfants doivent être surveillés afin de s'assurer qu'ils ne jouent pas avec l'appareil.

Warning: Safety & Electrical Connections

- 1.1 **AVERTISSEMENT : TOUJOURS DÉBRANCHER OU DÉCONNECTER TOUS LES APPAREILS QUI SE TROUVENT DANS LE BASSIN DE LEUR SOURCE D'ALIMENTATION AVANT DE PLONGER LES MAINS DANS L'EAU LORS DE L'INSTALLATION, LA RÉPARATION, L'ENTRETIEN OU LA MANIPULATION DE L'ÉQUIPEMENT.**
- 1.2 Le tube transparent à l'intérieur de l'appareil étant en verre de quartz, il faut prendre des précautions lors de l'installation et de l'entretien. Il est recommandé d'utiliser des lunettes de protection et des gants adaptés.
- 1.3 Le Vorton UVC résiste aux intempéries, mais ne doit pas être immergé. L'appareil doit être positionné à



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