

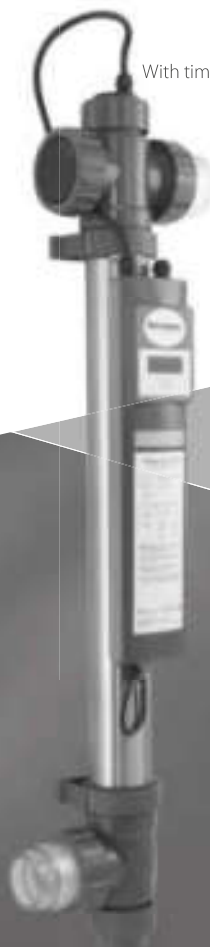
40/75/130W 4ALL UV-C

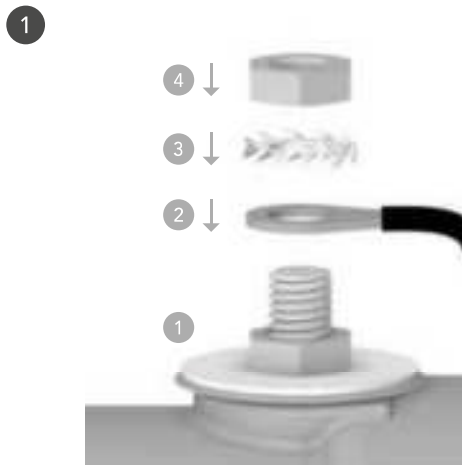
Manual

Without timer function



With timer function

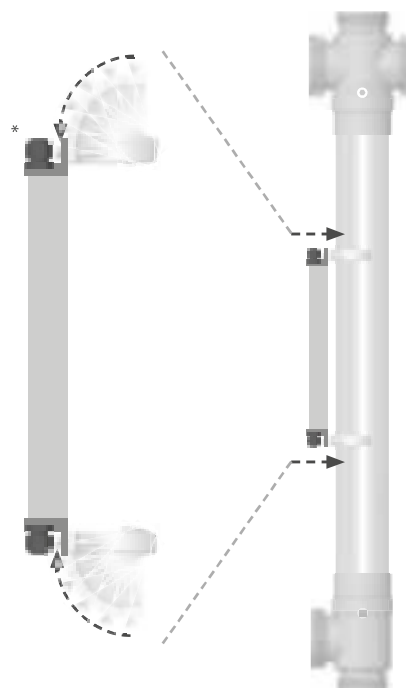




2

- EN Ballast attachment can be used optionally
 DE Optional kann eine Ballastbefestigung verwendet werden
 FR La fixation du ballast peut être utilisée en option
 NL Ballast bevestiging optioneel te gebruiken
 ES El accesorio de lastre se puede utilizar opcionalmente
 PT O acessório de lastro pode ser usado opcionalmente
 RU Опционально можно использовать балластное крепление.

* ONLY 40 W / 75 W UNITS



3

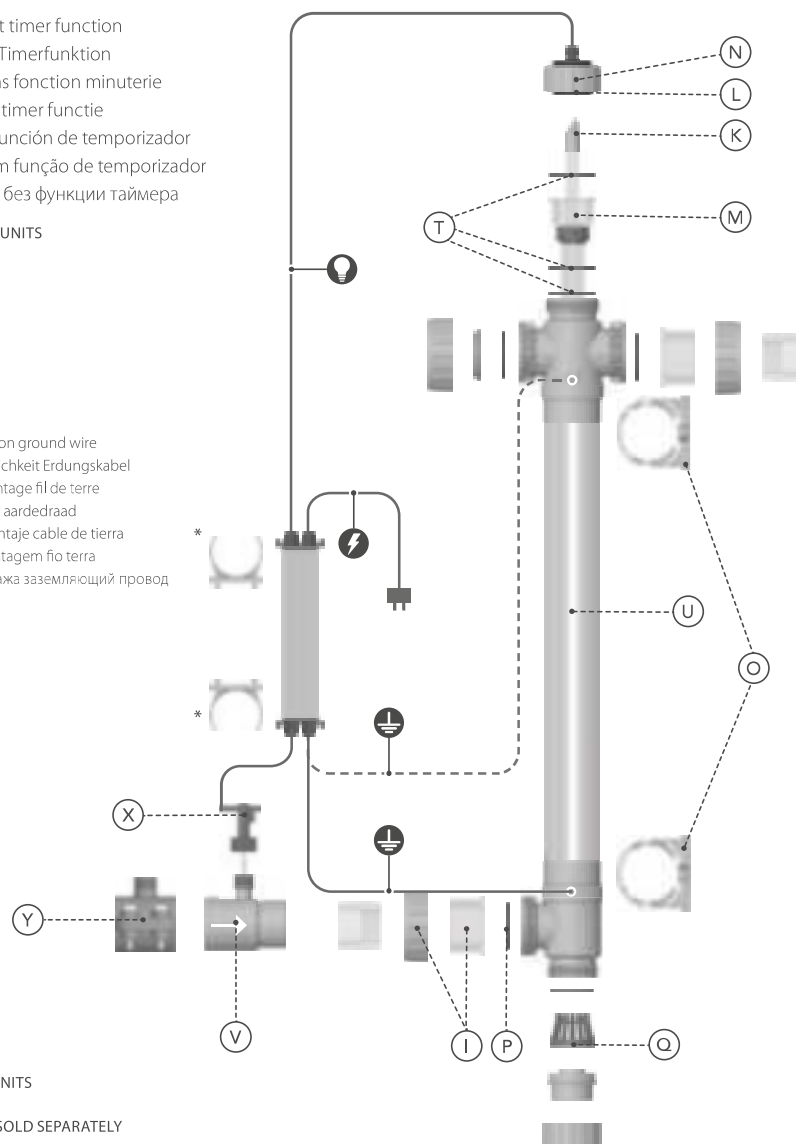
EN Unit without timer function
 DE Gerät ohne Timerfunktion
 FR Appareil sans fonction minuterie
 NL Unit zonder timer functie
 ES Unidad sin función de temporizador
 PT Unidade sem função de temporizador
 RU Устройство без функции таймера

* ONLY 40 W / 75 W UNITS

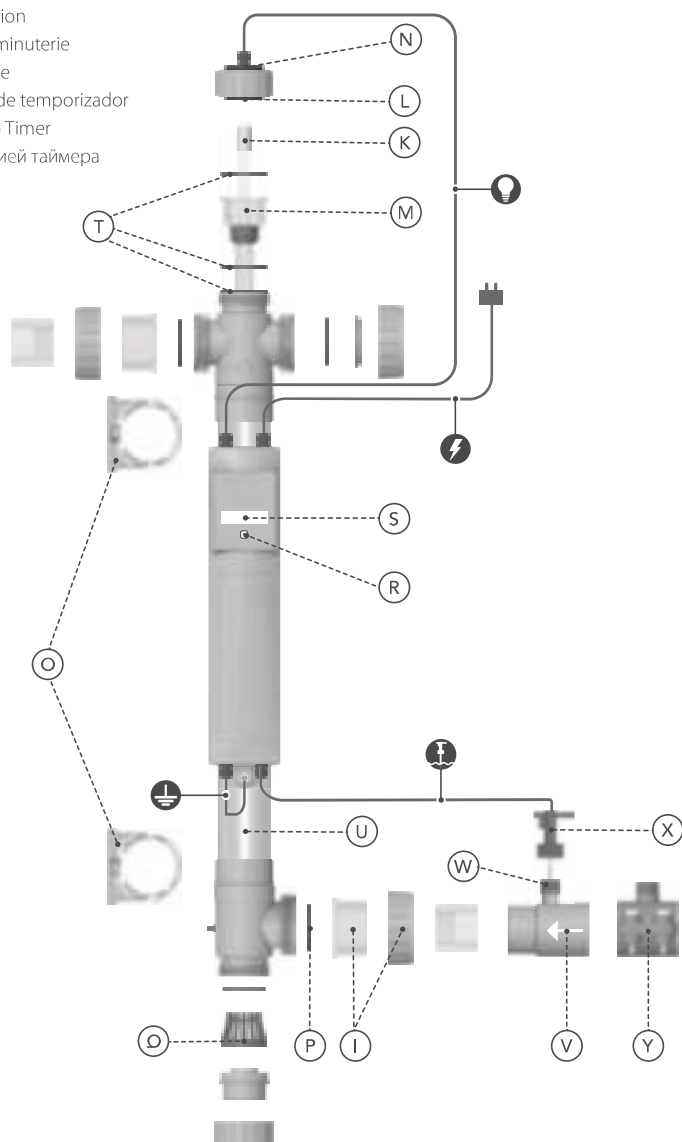
EN Mounting option ground wire
 DE Montagemöglichkeit Erdungskabel
 FR Option de montage fil de terre
 NL Montage optie aardedraad
 ES Opción de montaje cable de tierra
 PT Opção de montagem fio terra
 RU Вариант монтажа заземляющий провод

(V) ONLY 130 W UNITS

(Y) TAP SADDLE SOLD SEPARATELY



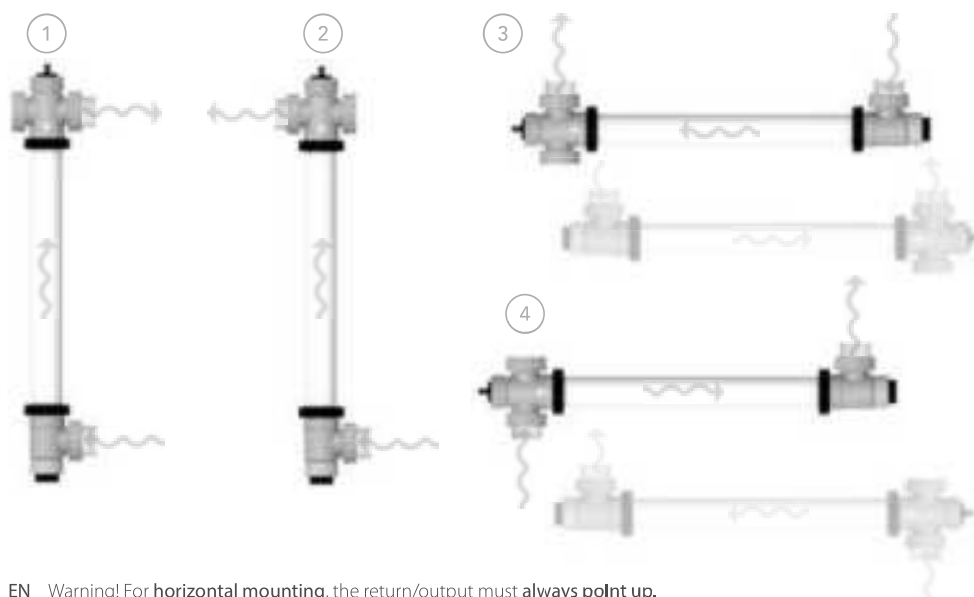
EN Unit with timer function
 DE Gerät mit Timerfunktion
 FR Unité avec fonction minuterie
 NL Unit met timer functie
 ES Unidad con función de temporizador
 PT Unidade com função Timer
 RU Устройство с функцией таймера



(V) ONLY 130 W UNITS
 (Y) TAP SADDLE SOLD SEPARATELY



FLEXIBLE CONNECTION OPTIONS AND POSSIBLE FLOW DIRECTIONS:



EN Warning! For **horizontal mounting**, the return/output must **always point up**.

DE ACHTUNG! Bei einer **horizontalen Montage** muss der Auslauf/Ausgang des Wassers **Immer nach oben zeigen**.

FR Attention ! En cas de **montage horizontal**, le retour/la sortie doit toujours être dirigé(e) vers le haut.

NL Let op! Bij **horizontale montage** dient de retour/uitgang **altijd naar boven te wijzen**.

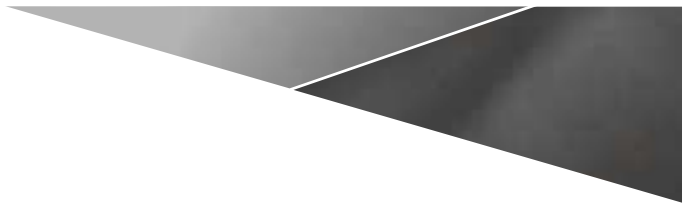
ES ¡Atención! En el **montaje horizontal**, el retorno y la salida **deben estar siempre hacia arriba**.

PT Atenção! No caso de **montagem numa posição horizontal**, o retorno/a saída **deve estar sempre virado/a para cima**.

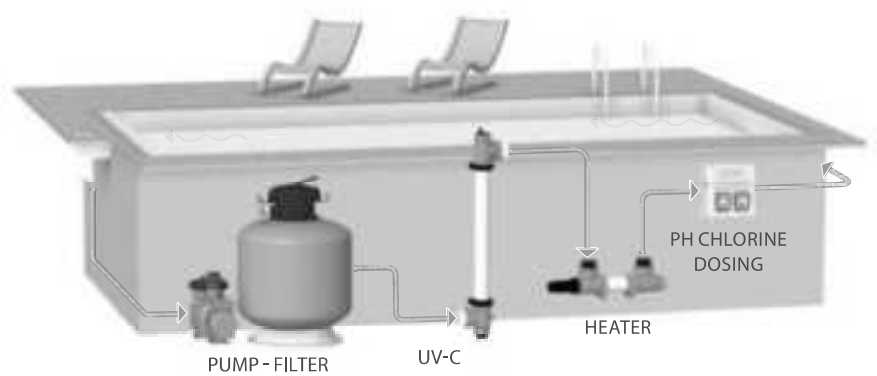
RU Внимание! При **горизонтальном монтаже** возвратный/выходной патрубок должен быть обращен вверх.



- EN: Do not disassemble!** The quartz glass connection cannot and may not be dismantled. Disassembly attempts can lead to leakage, glass breakage or personal injury. Damage to the UV-C device as a result of dismantling is not covered by the warranty.
- DE: Nicht zerlegen!** Die Quarzglasverbindung kann und darf nicht zerlegt werden. Demontageversuche können zu Undichtigkeiten, Glasbruch oder Verletzungen führen. Schäden am UV-C-Gerät durch Demontage fallen nicht unter die Garantie.
- FR: Ne démontez pas!** La connexion en verre de quartz ne peut pas et ne peut pas être démontée. Les tentatives de démontage peuvent entraîner des fuites, des bris de verre ou des blessures. Les dommages à l'appareil UV-C résultant du démontage ne sont pas couverts par la garantie.
- NL: Niet demonteren!** De kwartsglasverbinding kan en mag niet worden gedemonteerd. Demontagepogingen kunnen leiden tot lekkage, glasbreuk of persoonlijk letsel. Schade aan het UV-C apparaat als gevolg van demontage valt niet onder de garantie.
- ES: No desarme!** La conexión de vidrio de cuarzo no puede y no puede desmontarse. Los intentos de desmontaje pueden provocar fugas, rotura de cristales o lesiones personales. El daño al dispositivo UV-C como resultado del desmantelamiento no está cubierto por la garantía.
- PT: Não desmonte!** A conexão de vidro de quartzo não pode e não pode ser desmontada. Tentativas de desmontagem podem causar vazamento, quebra de vidro ou ferimentos pessoais. Danos ao dispositivo UV-C como resultado da desmontagem não são cobertos pela garantia.
- RU: Не разбирать!** Соединение из кварцевого стекла не может и не может быть демонтировано. Попытки разборки могут привести к утечке, поломке стекла или травме. Повреждение устройства UV-C в результате демонтажа не покрывается гарантией.



POSSIBLE INSTALLATION



TECHNICAL SPECIFICATIONS

	UV-C 40W	UV-C 75W	UV-C 130W Amalgam
Type	40.000 /40W	75.000 /75W	150.000 /130W
Rec. flow for 30 mJ/cm ²	11 m ³ /h	16 m ³ /h	22 m ³ /h
Max. pressure	2 bar	2 bar	2 bar
Max. flow	23 m ³ /h	23 m ³ /h	23 m ³ /h
Diameter unit Ø	70 mm	70 mm	70 mm
Length unit	100 cm	100 cm	100 cm
Diameter in-outlet Ø	63mm / 50mm / 1 ½"	63mm / 50mm / 1 ½"	63mm / 50mm / 1 ½"
Housing	Stainless steel/DUPLEX	Stainless steel/DUPLEX	Stainless steel/DUPLEX
Electronic ballast	230V AC 50/60Hz	230V AC 50/60Hz	230V AC 50/60Hz
Maximum current	0,29A	0,57A	1,1A
Lamp wattage	40W	75W	130W
Lifespan lamp	9.000 h	9.000 h	12.000 h
Flow switch	-	-	✓

Extra specs for unit with timer function

Timer	✓	✓	✓
Replace lamp alert	✓	✓	✓



Important Please read carefully through these instructions for use before installing this device.



CAUTION:

Carefully read these instructions before installing this device.



Always make sure to have a correct grounding. When in doubt about the grounding of the electrotechnical installation in general, always consult a licensed electrotechnical mechanic. Faulty grounding can be dangerous, and/or lead to corrosion of stainless steel or aluminium reactors.



It's not permitted to flow a liquid through the reactor or to add additions to the water that has to be treated, which can have a negative effect on corrosion or degradation on the used materials. This to avoid dangerous situations or damage to the reactor and surrounding installations and/or to the flora and fauna.



Radiation of this ultraviolet lamp is dangerous for eyes and skin.



Always free the device of tension first during maintenance! Risk of an electric shock. Connect only to a grounding type receptacle protected by a ground-fault circuit-interrupter (GFCI). Do not use an extension cord.



The quartz glass and the UV-C lamp will stay warm for quite some time after the device has been switched off. It has a cooling time of at least 15 minutes.



Wear gloves to protect the quartz glass and UV-C lamp against fingerprints. Fingerprints can burn into the quartz glass and UV-C lamp while turned on, causing reduction of the disinfection.



The UV-C lamp should never be turned on when there's no flow.



Wear safety glasses during maintenance and installation.

HOW IT WORKS

Inside the reactor a UV-C lamp produces radiation with a wavelength of 253.7 nm. Radiation of this type kills bacteria, viruses, algae and fungi (e.g. Legionella and Cryptosporidium). The UV-C unit produces clean, fresh, clear water in an efficient, environmentally friendly way. The water is fed through the UV-C device by a pump. The UV-C radiation neutralizes bacteria, viruses and other micro-organisms and prevents them from reproducing. Floating algae is also destroyed by this radiation, which greatly improves the clarity of the water. The UV-C unit is equipped with an electronic ballast. This ballast ensures optimum performance of the lamp.

Thanks to the UV-C unit, the water is disinfected efficiently and safely, providing you with excellent water quality. Overdosing with UV-C is not possible.

INSTALLATION OF EARTHING (DRAWING 1)

1. Place the eye (2) of the cable over the earthing bolt (1) attached to the housing.
2. Then insert a serrated washer (3).
3. Finally, place the nut (4) on the earthing bolt.
4. When the parts have been placed on the earthing bolt in the correct order, it can be tightened with a wrench number 8.

DEVICE INSTALLATION (FIGURE 3)

Decide where you want to mount the device. The best place to install the UV-C device is directly after the filter(s). See the schematic diagram in the operating instructions. Make sure there is always water flowing through the device when the lamp is on. Never install the device in direct sunlight.

Install the device in a dry, well-ventilated area. The device can be installed either horizontally or vertically, provided that the water flow is from bottom to top (see schematic diagram at the beginning of the instructions for use), with 30 cm of unobstructed space on the side opposite the lamp connection for future maintenance. At least one metre of unobstructed space must be left on the side with the lamp connection for convenient future replacement of the lamp (K) without having to disconnect the entire device.

CAUTION: All connections and couplings must be hand-tight. Do not tighten them with tools. Otherwise damage may occur.

1. Unscrew the nut (N) from the housing (U). Remove the UV-C lamp (K) from the supplied tube (see packaging) and carefully slide the lamp into the quartz sleeve (M). Place the lamp (K) with the contact pins in the lamp fitting (L) and then tighten the nut (N) on the housing (U).
2. Fit the supplied pipe clamps (O). Then insert the unit into the pipe clamps. Tighten the three-piece coupling (I) firmly, while ensuring the correct position of the sealing rings (P), both at the connections and the quartz sleeve (see figure 3).
3. Mount the unit in the circuit by means of the three-piece coupling (I). The glue connections of the three-piece coupling are Ø63 mm or 2". A hose tail adapter can also be used. ATTENTION: Allow the glued parts to evaporate for 8 hours.
4. Insert the plug of the UV-C device into an earthed wall socket that is protected by a residual current device.
5. Look through the transparent parts of the device to make sure the lamp is lit.
6. The device is shut off when power is disconnected from the device.

*FOR 130 W AMALGAM ONLY

- The glue coupling for the flow switch (V) must be positioned on the three-piece coupling (I) with the screw thread (W) facing up (see figure 3). The glue coupling (V) can be glued to a three-piece coupling (I). Mount the flow switch (X) which is attached to the electrical section (S) directly to the screw thread (U) of the glue coupling (V) (see figure 2). If the flow switch is mounted differently, the device will not work. The arrow on top of the flow switch (X) must always point in the direction of water flow. If it points in the direction opposite the water flow, the UV-C device will remain off.
- When no water is flowing through the device, the flow switch automatically switches the unit off.

DISASSEMBLY/MAINTENANCE

Always disconnect the power supply during maintenance/disassembly of the device.

The device must be cleaned at least twice a year. When there is a significant amount of algae growth and/or lime build-up in the unit the quartz sleeve (M) must be cleaned.

The special lamp must be replaced after the number of hours of operation has elapsed. The inside of the reactor can be cleaned with a soft brush.

1. Let the water flow out of the device.
2. Unscrew the nut (N) and remove the lamp (K) from the fitting (L). Remove the lamp from the quartz sleeve, and replace the special lamp (K) if necessary. Caution is advised as these are very delicate parts.
3. Carefully remove the quartz sleeve (M) (see figure 3). Never use force! **CAUTION:** Always wear protective gloves and glasses.
4. Clean the quartz sleeve with an appropriate cleanser. Always use a soft cloth to clean the sleeve and avoid scratches.
5. Carefully replace the quartz glass (M) (see drawings 4 and 5). Never force it! And carefully put the end of the quartz glass into the inlet (Q).
6. Carefully place the lamp back in the quartz sleeve, fit the O-ring (T) back onto the quartz sleeve and connect the lamp (K) to the fitting (L). Screw the nut (N) back onto the housing.

If the housing or the electrical section must be replaced, the earthing must first be disconnected from the housing. Please read the Installation and Disassembly section before installing a new housing or electrical section. Make sure you save the various separate parts for the earth connection. These are not supplied with a new housing or electrical section. If in doubt about the connection, consult a qualified installer.

TIMER FUNCTION CONTROL

When the UV-C device is switched on, the program will perform a self-diagnostic test. The display shows the following indications automatically, one after the other: 8888 (display test); r and software version number; 50H or 60H indication of the network frequency. Then the display switches to the hour meter mode.

When the UV-C lamp is switched on for the first time, or after the reset function is used, the value 9,000 will appear on the display. A decimal point flashes beside the rightmost digit on the display every second to indicate that the counter is running. The display is automatically set to the factory hour meter reading of 9,000 hours. Up to 9,000 hours the UV-C lamp produces its rated radiation level. After 9,000 hours the radiation diminishes. The radiation may then be insufficient to achieve the desired results. If the UV-C lamp has been in use for some time and has been switched on before, each time it is switched on the display will show the value it had before the UV-C lamp was switched off. If the count of the hour meter is increased or decreased, the reading it had before the display was switched off will be shown.

The hour meter settings can be changed if desired. This can be done as follows: After holding in the switch (R) located below the display for 5 seconds, the display shows 'rSt' indicating that the user menu has been selected. After releasing the switch (R) the counter and 'rSt' alternate on the display. Now each brief press of the button will step through the menu options. There are three setting options in the menu: 'rSt', 'up' and 'dn'.

•

- **'rSt'** means (reset): this resets the counter to the factory settings of 9,000 hours. This selection is confirmed by the counter and 'rSt' alternating on the display. If the switch (R) is held for 5 seconds, after which the hour meter reading 9,000 is displayed, and then released, the hour meter starts counting down from 9,000 hours. This option is used, for example, when a lamp is replaced or when the counter mode has been changed and it must be reset to the factory settings.
- **'up'** means (up): this allows you to increase the hour meter reading to the value you want. This selection is confirmed by the selected user setting 'up' and the hour meter reading alternating on the display. Now hold the switch (R) for 5 seconds. After 5 seconds the display will only show 'up'. Then release the switch. By briefly pressing the switch the counter value can be increased from 9,000 in 500-hour increments to a maximum value of 9,999. The increased value alternates with 'up' on the display. Once the desired hour reading is selected, wait 10 seconds. After 10 seconds the selected hour meter reading appears on the display and the timer countdown begins. If an error has been made while increasing the hour meter reading, for example, the hour meter can be reset to 9,000 by holding the switch for 5 seconds. The hour meter reading is then reset to 9,000 and a new value can be set.
- **'dn'** means (down): this allows you to decrease the hour meter reading to the desired value. This selection is confirmed by the selected user setting 'dn' and the hour meter reading alternating on the display. Now hold the switch (R) for 5 seconds. After 5 seconds the display will only show 'dn'. Then release the switch. By briefly pressing the switch the counter value can be decreased from 9,000 in 500-hour increments to a minimum value of 0000. The decreased value alternates with 'dn' on the display. Once the desired hour reading is selected, wait 10 seconds. After 10 seconds the selected hour meter reading appears on the display and the timer countdown begins. If an error has been made while decreasing the hour meter reading, for example, the hour meter can be reset to 9,000 by holding the switch for 5 seconds. The hour meter reading is then reset to 9,000 and a new value can be set.

The hour meter indicates that the lamp must be replaced as follows:

1. **From hour meter reading 0672** the display flashes each second. The lamp should be **replaced within 4 weeks**.
2. **From hour meter reading 0336** the display flashes each half second. The lamp should be **replaced within 2 weeks**.
3. **From hour meter reading 0168** the display flashes each second. The lamp should be **replaced within 1 week**.
4. **When the hour meter reading reaches 0000**, the numbers will flash quickly and the counter will no longer count down. **The lamp must be replaced.**

For the safety instructions and terms of guarantee we would like to refer to the general UV-C manual.