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WATER SYSTEMS



11

Disinfection



1- UV STERILIZER

- Water cooling for ballasts installed inside the cover.
- Indicator light for UV lamp state available.
- Watertight rate: IP56.
- Power supply: 220-240V/50Hz.
- Designed pressure resistance: 7 bar.
- Flow switch included.
- 304 stainless steel chamber (316 on demand).
- Easy installation and simple maintenance.

CODE	FLOW RATE m ³ /h	POWER CONSUMPTION W	LAMP W	LAMP LIFE hours	INLET & OUTLET DIAMETER	DRAIN VALVE	DIMENSIONS mm	PACKING	WEIGHT kg	VOLUME m ³
UV-75	10	78	75	9000	1¼"	No	101 x 920	1	10	0.1
UV-100	14	125	120	9000	1½"	No	101 x 920	1	10	0.1
UV-200	25	210	200	9000	2"	No	101 x 1210	1	15	0.2
UV-400	55	420	200x2	9000	3"	No	168 x 1210	1	25	0.3



2- SALT WATER CHLORINATOR

- 3500 - 4000 P.P.M. salt.
- LCD digital display.
- LED indicator lights.
- High and low salt fault lights.
- No flow sensor and fault light.
- Self regulating function if salt content is too high.
- Fully weather protected.
- Winter mode for cold water operation.
- Super chlore mode for boosting chlorine levels during peak times.
- Touch pad controls that provide easy setting.
- Fully automatic operation - even when the owner is away.
- Easy installation to new and existing pools.
- Reliable and durable for long lasting performance.
- Digital time clock with battery back up timer as standard.
- Cell has push on water proof connectors for simple exchange of cell.
- Advanced high grade UV stabilized plastic control unit.
- Large alloy heat sink for heat dissipation and corrosion resistance.

2 Year
Full Warranty
on
Power Pack

5 Year
Pro-rata
Warranty
On Cell

CODE	POOL VOLUME lts	PACKING	WEIGHT kg	VOLUME m ³
CPSC-08	10,000	1	8	0.05
CPSC-16	60,000	1	8	0.05
CPSC-24	80,000	1	8	0.05
CPSC-36	120,000	1	8	0.05

3- SPECTRUM UV POOL SYSTEM

FEATURES:

- Suitable for all pools up to 100,000-litres.
- Improves water quality and clarity.
- Destroys harmful chloramines.
- Controls bacteria, micro organisms and pathogens.
- Easily dismantled for maintenance / service.
- Easy installation.
- Robust, durable construction.
- 2 X 55W (110W total) output.
- 2 X 18W (36W total) UV-C output.
- "End of lamp life" indicator.
- Low maintenance / running costs.
- UV Lamps can be replaced without the need to drain the system.
- Supplied with mounting brackets for easy wall fixing.
- 2 years conditional warranty.



OPERATION:

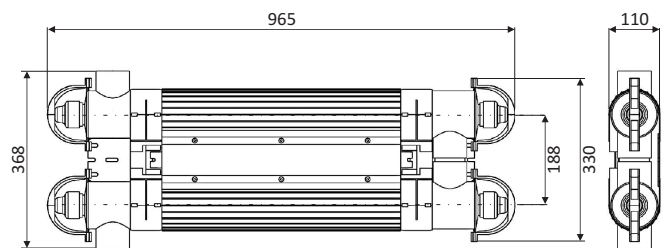
The Spectrum UV Pool System is designed for disinfection of residential pool and spa water, providing cost effective treatment and improved water quality. The system utilizes high output, low pressure UV lamps powered by electronic ballasts which are housed within the enclosure. The water is routed through a narrow diameter and long flow path, ensuring close and extended UV contact. This design also ensures that the Quartz Sleeves are continuously rinsed by water flow, avoiding the typical encrustation which would affect UV sanitizing performance.

The unit also features an 'End of lamp life' indicator which flashes 'Red' when the UV lamps are required to be changed. The inlet and outlet allow easy connection onto existing or new pipework systems. Suitable for flows rates of up to 36m³/h, the dose is sufficient for disinfection of the water providing complimentary protection against chlorine resistant organism, as well as enhanced algae control.

UV treatment is compatible with all other sanitizers, including chlorine, bromine, active oxygen, peroxide, and copper based compounds, and allows for the levels of these to be significantly reduced. UV treatment introduces no by-products into the water, but also has no residual effect. Therefore a small background level of disinfectant should always be maintained.

Specifications:

Voltage and frequency:	120V ~ 240V 50/60Hz
Maximum operating pressure:	3 Bar
Lamp output:	2 X 55W (110W total)
UV-C output:	2 X 18W (36W total)
Lamp Pressure:	Low
Lamp life:	8,000 hours
Max flow rate:	36,000 litres per hour
IP Rating:	Ip64
Max pool size:	100,000 litres
Water connections:	2" BSP / 63 mm stepped
Approvals:	CE approved



CODE	PACKING	WEIGHT kg	VOLUME m ³
UVC-100	1	10	0.05



4- UV-C IONIZER

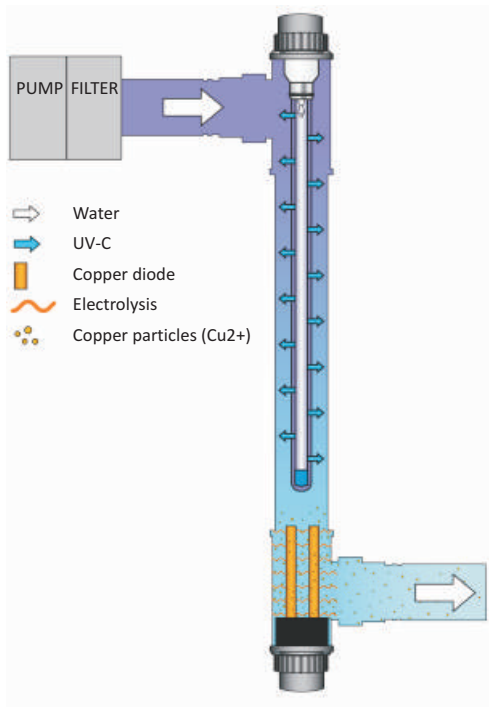
This revolutionary combination of UV-C and copper electrolysis means you can have a chlorine-free pool! With this UV-C Ionizer unit as part of your pool system you can keep your pool water fresh, crystal-clear and above all hygienically clean, without having to put chlorine or other chemicals in the water. Chlorine ensures that harmful bacteria cannot develop in your pool. Unfortunately chlorine also has unpleasant side-effects on the people who swim in the chlorinated water. Examples are irritated skin, stinging, blood-shot eyes, irritation of the bronchial tubes and of course the penetrating smell of chlorine. Children in particular do not realize that they must not get chlorinated water in their eyes because it will irritate them after swimming. Children with asthma also suffer greatly from chlorinated water, so that swimming can be less enjoyable for them. With the UV-C Ionizer this is completely a thing of the past.

ADVANTAGES OF UV-C TREATMENT:

- Ensures fresh, clean and clear water.
- Disinfects water efficiently and safely.
- Protects your pool from germs.
- Keeps the formation of mould, bacteria and algae under control.
- No more need for chlorine and other chemicals.
- More environmentally-friendly than traditional methods.

CHARACTERISTICS OF THE IONIZER:

- Enables swimming without the use of chlorine.
- Up to 80% disinfection by UV-C.
- Up to 20% disinfection by copper electrolysis.
- 316L stainless steel housing yields up to 35% more UV-C as a result of reflection.
- UV-C lamp and copper unit are sufficient for 2 swimming seasons.
- Easy installation and maintenance.
- 2-year guarantee with respect to manufacturing faults.
- The UV-C Ionizer is earthed.



OPERATION:

The UV-C Ionizer will clean the water in your swimming pool through copper electrolysis combined with UV-C radiation. The UV-C Ionizer is placed on the piping system after the swimming pool filter. The swimming pool water then flows through the housing of the UV-C Ionizer. A UV-C lamp and a copper unit, or ionizer, are positioned within the housing, and the copper unit discharges a minimal amount of copper into the water flowing through the housing. These copper ions (Cu^{2+}) in the water have a positive charge and destroy the cell walls of bacteria, viruses and other primitive organisms. As the cell wall is thereby damaged, these organisms are no longer able to take up any nutrients, and are therefore unable to multiply. The process of applying a positive charge to copper is called copper electrolysis. The copper in the water acts as a disinfecting buffer in your swimming pool and, in terms of results, can be compared with the effect of chlorine. The UV-C lamp that is positioned in the UV-C ionizer generates UV-C light. This UV-C light produces UV-C radiation with a wavelength of 253.7 nm, ensuring that bacteria, viruses and other primitive organisms are destroyed. Due to the length of the device, the water is exposed to this high level of radiation for a longer time, which destroys the DNA of bacteria, viruses and micro-organisms. The interior of the device made of 316L stainless steel, which ensures an additional reflection of the UV-C radiation, increasing the efficiency by up to 35%.

CODE	LAMP	UV-C	MAXIMUM FLOW	MAXIMUM PRESSURE	POOL VOLUME	CONNECTION	LENGTH	PACKING	WEIGHT	VOLUME
	W	W	l/h	bar	lts	mm	cm		kg	m ³
UVC-01	40	15	20,000	3	40,000	63	100	1	5	0.05
UVC-02	70	25	25,000	3	70,000	63	100	1	6	0.05

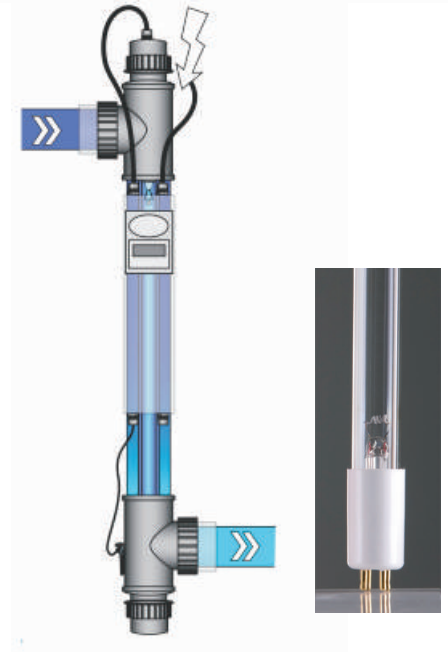
5- UVC TIMER

ADVANTAGES OF UV-C TREATMENT:

- Ensures fresh, clean and clear water.
- Disinfects water efficiently and safely.
- Bound chlorine is broken down by UV-C light.
- Protects your pool from germs.
- Keeps the formation of mould, bacteria and algae under control.
- Can reduce the use of chlorine and other chemicals up to 80%.
- Prevents the smell of chlorine and irritation to the skin and eyes (red eyes).
- More environmentally-friendly than traditional methods.

ADVANTAGES OF UV-C TIMER:

- Built-in electronic pre-selector to ensure a smooth power supply.
- Up to 35% more UV-C yield as a result of reflection.
- Includes a Philips UV-C lamp.
- Integrated adjustable time meter for the UV-C lamp.
- Digital indication when the lamp needs replacing.
- 316L stainless steel housing.
- Easy installation and maintenance.
- 2-year guarantee with respect to manufacturing faults.
- Earthed.
- Ø63mm to Ø50mm adapters included in delivery.



OPERATION:

In the UV-C Timer, a UV-C radiation with a wavelength of 253.7 nm is generated by the special Philips UV lamp, ensuring a lethal effect on bacteria (including Legionella bacteria). The UV-C Timer will ensure that your pool water is clean, fresh and clear in an efficient and environmentally-friendly manner. The water is led through the UV-C device via a pump. The UV-C radiation neutralizes bacteria, viruses and other primitive organisms and stops them from multiplying. The UV-C Timer has a built-in high-frequency electronic ballast, which absorbs current fluctuations, thereby protecting the lamp. In addition, the device contains an integrated time meter that accurately monitors the number of operating hours. You can therefore see exactly when the lamp must be replaced. In addition, the stainless steel interior ensures the reflection of the UV-C rays, thereby increasing the efficiency up to 35%. Thanks to the UV-C Timer, your swimming pool water will be disinfected efficiently and safely, and the quality of your water will remain excellent.

CODE	LAMP	UV-C	MAXIMUM FLOW	MAXIMUM PRESSURE	POOL VOLUME	CONNECTION	LENGTH	PACKING	WEIGHT	VOLUME
	W	W	l/h	bar	lts	mm	cm		kg	m ³
UVC-04	40	15	20,000	3	40,000	63	100	1	5	0.05
UVC-05	75	25	25,000	3	75,000	63	100	1	6	0.05



6- OZONE UV-C

The UV-C is a revolutionary combination of ozone (atom O₃) and UV-C (ultraviolet radiation with a wavelength of 253.7 nanometres), which reduces the use of chlorine in your swimming pool to a minimum! The installation of this Ozone UV-C unit as part of your swimming pool system will keep your swimming pool water fresh, crystal clear and, above all, hygienically clean.

How does ozone work?

Ozone has been used for decades in the disinfection of drinking water and in air purification. The substance has a very strong oxidation and sterilization effect on all organic substances and also removes unpleasant odors. For this reason, it is one of the most effective sterilization agents to be used in water treatment. UV-C radiation and ozone are the perfect combination to keep your swimming pool water crystal clear, clean and rich in oxygen. The ozone atom, O₃, oxidises micro-organisms, such as moulds, (Legionella) bacteria, parasites, algae and viruses. Ozone not only destroys micro-organisms but also breaks down urine, transpiration, cosmetics and suntan lotion particles. After the ozone has completed its function, it disappears from the water without leaving any by-products.

ADVANTAGES OF THE UV-C & OZONE TREATMENT:

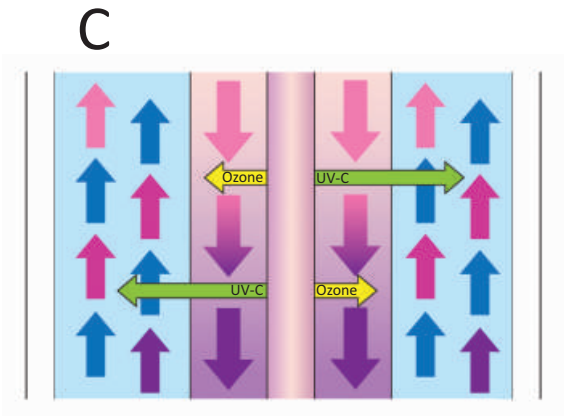
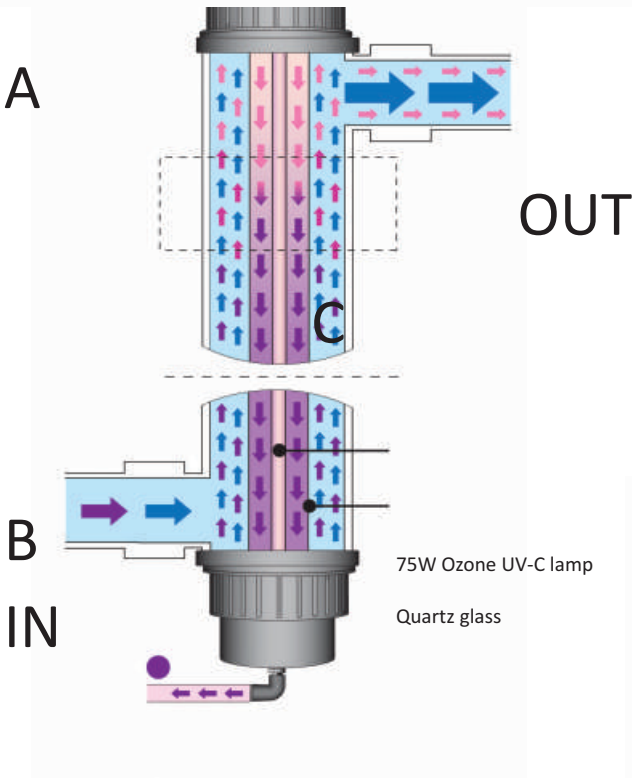
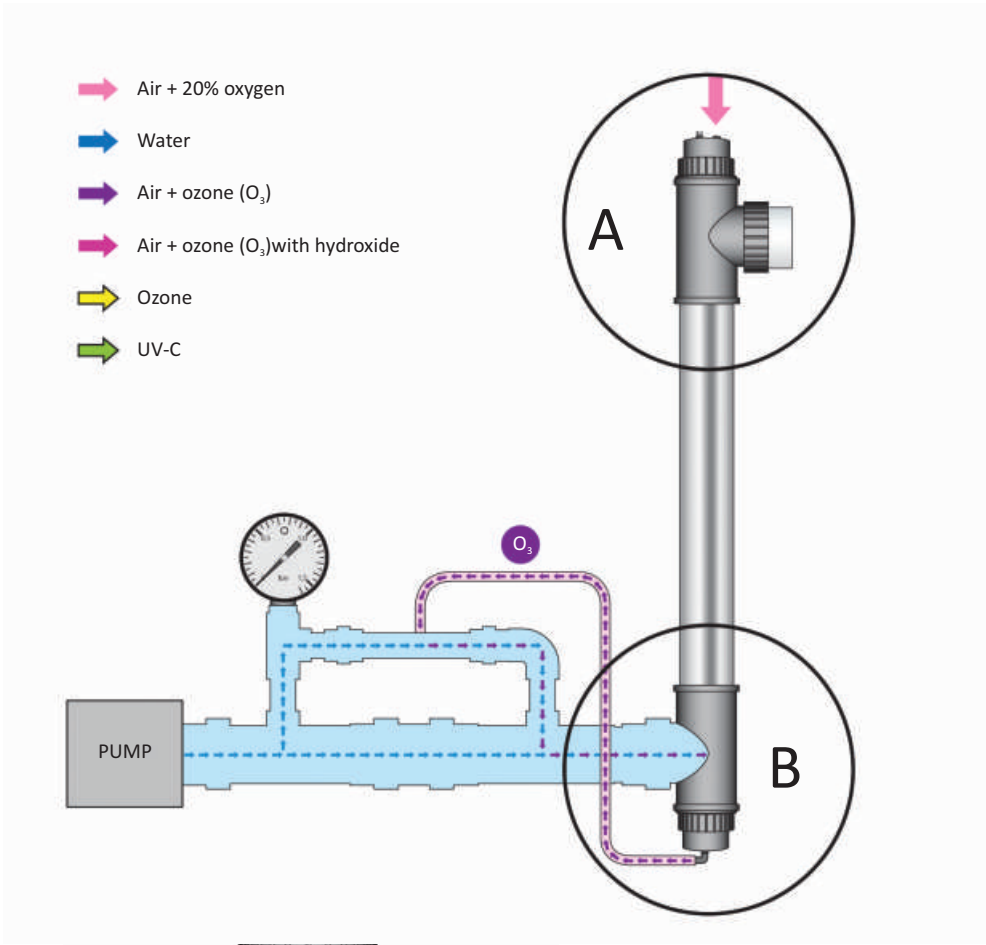
- Ensures fresh, clean and crystal clear water.
- Less maintenance and more carefree use of your swimming pool.
- Suntan lotion, cosmetics, urine and transpiration are broken down by ozone.
- Bound chlorine is broken down by UV-C light.
- Disinfects water efficiently and safely.
- Protects your pool from germs.
- Keeps the formation of mould, bacteria and algae under control.
- Can reduce the use of chlorine by up to 90% immediately after the installation.
- Disinfection is user-friendly and safe.
- More environmentally-friendly than traditional methods.
- Cost-saving.

FEATURES OF THE OZONE UV-C:

- Up to 35% more UV-C yield as a result of reflection
- 100% efficient and constant operation.
- 316L stainless steel interior.
- The Ozone UV-C is earthed.
- Ozone UV-C lamp operates for 4,500 hours (± 2 swimming seasons).
- The device indicates when the lamp needs replacing.
- Easy installation and maintenance- 2-year guarantee covering manufacturing faults.

OPERATION:

The "Ozone UV-C" must be connected to your swimming pool system. Using a pump, the water is pumped into the unit through the supplied reactor. Through the water pressure in the reactor, air is sucked in via the Venturi system. The pressure in the reactor can be read on the manometer, and can be adjusted using the ball valve. The ideal pressure is between 0.4 and 0.7 bar. Air is sucked into the unit via the air valve and flows through the area between the quartz glass and the ozone UV-C lamp. Because air enters the unit via the lamp, it becomes loaded with ozone particles that were generated in the special ozone UV-C lamp, which produces 0.6 grams of ozone. After it has passed the ball valve, the ozone enriched air is then mixed with water in the reactor. The oxidation and sterilization take place here, and a powerful disinfection process is achieved. The water-ozone mixture is then exposed to the 25 watt UV-C output generated by the lamp in the stainless steel housing. The lamp has a double function, producing ozone and UV-C light at the same time. The ozone particles in the water are completely broken down again by the UV-C device immediately after they have completed their function. This takes place because the ozone is mixed with water as it passes through the lamp for the second time. The 316L stainless steel housing provides an additional UV-C light reflection of up to 35%. The device produces ozone that is 100% safe; and the water that flows out no longer contains any ozone. What remains is fully disinfected, crystal clear swimming pool water that is free from bacteria. A minimal quantity of chlorine is recommended in your swimming pool water, as this will act as a buffer in the swimming pool. It will be necessary to collect the pool water for the period that the pump requires to process the full content of the pool. In this way, new micro-organisms will have no chance to develop.



CODE	LAMP	UV-C	MAXIMUM FLOW	MAXIMUM PRESSURE	POOL VOLUME	CONNECTION	LENGTH	PACKING	WEIGHT	VOLUME
	W	W	l/h	bar	lts	mm	cm		kg	m ³
UVC-03	75	25	25,000	3	75,000	63	100	1	8	0.1



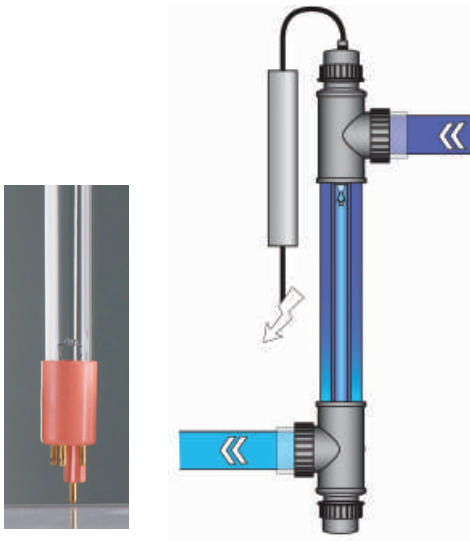
7- UV-C TECH

ADVANTAGES OF UV-C TREATMENT:

- Ensures fresh, clean and clear water.
- Disinfects water efficiently and safely.
- Bound chlorine is broken down by UV-C light.
- Protects your pool from germs.
- Keeps the formation of mould, bacteria and algae under control.
- Can reduce the use of chlorine and other chemicals up to 80%.
- Prevents the smell of chlorine and irritation to the skin and eyes (red eyes).
- More environmentally-friendly than traditional methods.

ADVANTAGES OF THE UV-C TECH:

- Built-in electronic pre-selector to ensure a smooth power supply
- Up to 35% more UV-C yield as a result of reflection
- 316L stainless steel housing
- Easy installation and maintenance
- 2-year guarantee with respect to manufacturing faults
- Earthed
- Ø63mm to Ø50mm adapters included in delivery.



OPERATION

In the UV-C Tech, a UV-C radiation with a wavelength of 253.7 nm is generated, ensuring a lethal effect on bacteria (including Legionella bacteria). The UV-C Tech will ensure that your pool water is clean, fresh and clear in an efficient and environmentally-friendly manner. The water is led through the UV-C device via a pump. The UV-C radiation neutralizes bacteria, viruses and other primitive organisms and stops them from multiplying. The UV-C Tech has a built-in high-frequency electronic ballast, which absorbs current fluctuations, thereby protecting the lamp. In addition, the stainless steel interior ensures the reflection of the UV-C rays, thereby increasing the efficiency up to 35%. Thanks to the UV-C Tech, your swimming pool water will be disinfected efficiently and safely, and the quality of your water will remain excellent.

CODE	LAMP	UV-C	MAXIMUM FLOW	MAXIMUM PRESSURE	POOL VOLUME	CONNECTION	LENGTH	PACKING	WEIGHT	VOLUME
	W	W	l/h	bar	lts	mm	cm		kg	m ³
UVC-07	16	3.9	7,200	3	15,000	63	56	1	3	0.03
UVC-08	40	15	20,000	3	40,000	63	100	1	4	0.05
UVC-09	75	25	25,000	3	75,000	63	100	1	5	0.05

8- UV-C TIMER AMALGAM

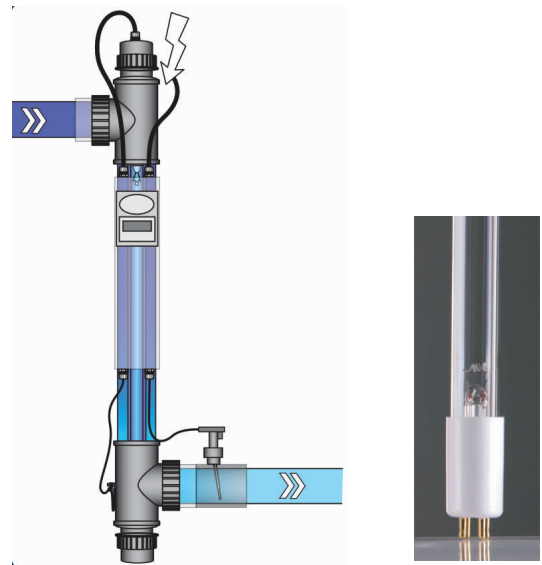
ADVANTAGES OF UV-C TREATMENT:

- Ensures fresh, clean and clear water.
- Disinfects water efficiently and safely.
- Bound chlorine is broken down by UV-C light.
- Protects your pool from germs.
- Keeps the formation of mould, bacteria and algae under control.
- Can reduce the use of chlorine and other chemicals up to 80%.
- Prevents the smell of chlorine and irritation to the skin and eyes (red eyes).
- More environmentally-friendly than traditional methods.



ADVANTAGES OF THE UV-C TIMER:

- Built-in electronic pre-selector to ensure a smooth power supply
- Has a flow switch that switches the machine off as soon as no water flow-through is detected.
- Up to 35% more UV-C yield as a result of reflection
- Has a 50 Watt UV-C output.
- Includes a Philips UV-C lamp.
- Integrated adjustable time meter for the UV-C lamp.
- Digital indication when the lamp needs replacing.
- 316L stainless steel housing.
- Easy installation and maintenance.
- 2-year guarantee with respect to manufacturing faults.
- Earthed.
- Ø63mm to Ø50mm adapters included in delivery.



OPERATION:

In the UV-C Timer, a UV-C radiation with a wavelength of 253.7 nm is generated by the special Philips UV lamp, ensuring a lethal effect on bacteria (including Legionella bacteria). The UV-C Timer will ensure that your pool water is clean, fresh and clear in an efficient and environmentally-friendly manner. The water is led through the UV-C device via a pump. The UV-C radiation neutralises bacteria, viruses and other primitive organisms and stops them from multiplying. The amalgam lamp is not affected by changes in the temperature of the water, and has a constant, powerful radiation output of 50 Watt UV-C. Amalgam UV-C is recognized as the strongest UV-C light that can be obtained in the UV-C market. The UV-C Timer has a built-in high-frequency electronic ballast, which absorbs current fluctuations, thereby protecting the lamp. In addition, the device contains an integrated time meter that accurately monitors the number of operating hours. You can therefore see exactly when the lamp must be replaced. In addition, the stainless steel interior ensures the reflection of the UV-C rays, thereby increasing the efficiency up to 35%. Thanks to the Blue Lagoon UV-C Timer, your swimming pool water will be disinfected efficiently and safely, and the quality of your water will remain excellent. Fitted with universal connectors. The device can be connected by means of a PVC tube (Ø63mm to Ø50mm).

CODE	LAMP	UV-C	MAXIMUM FLOW	MAXIMUM PRESSURE	POOL VOLUME	CONNECTION	LENGTH	PACKING	WEIGHT	VOLUME
	W	W	l/h	bar	lts	mm	cm		kg	m ³
UVC-10	130	50	30,000	3	150,000	63	100	1	7	0.05



9- POOLMAG

- It works effectively without the need for electricity or chemicals.
- This permanent magnet prevents lime scale on pipe walls, tiles, foil, etc, and even ensures that lime deposit formed previously in the pipes will come off.

CODE	CONNECTION	PACKING	WEIGHT		VOLUME	
			kg	m ³		
UVC-11	½"	1	0.5	0.01		
UVC-12	¾"	1	0.75	0.01		
UVC-13	1½"	1	1	0.02		
UVC-14	2"	1	1.5	0.02		