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Disinfection

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Disinfection

1- "AQUA SALT" SALT CHLORINATOR

AQUA SALT is a salt-chlorinator for swimming pools up to 200 m³; the main function of device is to produce chlorine which is the sanitizing agents used in swimming pools. Through the process of electrolysis, water passing over the chlorine generator cell produces chlorine that is instantaneously transformed into Hypochlorous acid. Simply utilize a chlorine generator instead of direct addition of traditional chemical product, so you do not have to purchase it, store it or handle it; Just add salt to water to reach the required concentration.

CONTROL DEVICE

AQUA SALT CONTROL UNIT AVAILABLE IN 4 VERSIONS:

- Basic Model.
- pH Model: With pH controller and acid/alkaline corrector dosage by integrated peristaltic pump. Control Unit provided with pH probe and installation/calibration relative kit.
- pH-Rx Model: With pH controller and acid/alkaline corrector dosage by integrated peristaltic pump and with Rx controller for the chlorine estimation and Cell chlorine generation modulation. Control Unit provided with pH-Rx probe and installation/calibration relative kit.
- pH-CIJ Model (Installed on thermoformed panel): With pH controller and acid/alkaline corrector dosage by integrated peristaltic pump. System assembled on a panel equipped with A-J probe for the PPM free residual chlorine measurement and Cell chlorine generation modulation.

IMPORTANT: Select Control Unit according to Cell dimension.

Two Control Unit Models are available:

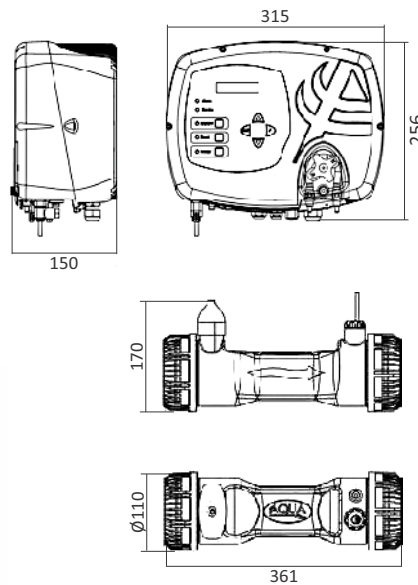
- For swimming pool up to 100 m³ to combine to 50/100 Cell
- For swimming pool up to 200m³ to combine to 150/200 Cell.



CONTROL DEVICE



ELECTROLYSIS CELL



TECHNICAL FEATURES

- Power supply: 180-260 VAC 50/60 Hz
- Max. consumption: 300 W
- Cell power supply: 24VDC 10 A
- Max chlorine production: 40 g/h
- Cell hydraulic connections: d.50 or d.63
- Max. working pressure: 3,75 bar
- Double safety on the presence of flow
- Indication of the saturation index
- IP65 protection
- Language selection
- Self-calibrating for automatic covers
- Replaceable body of electrolytic cell
- Pump feeding for salt concentration restoring
- Titanium plates
- Software for Windows-based management free for all models

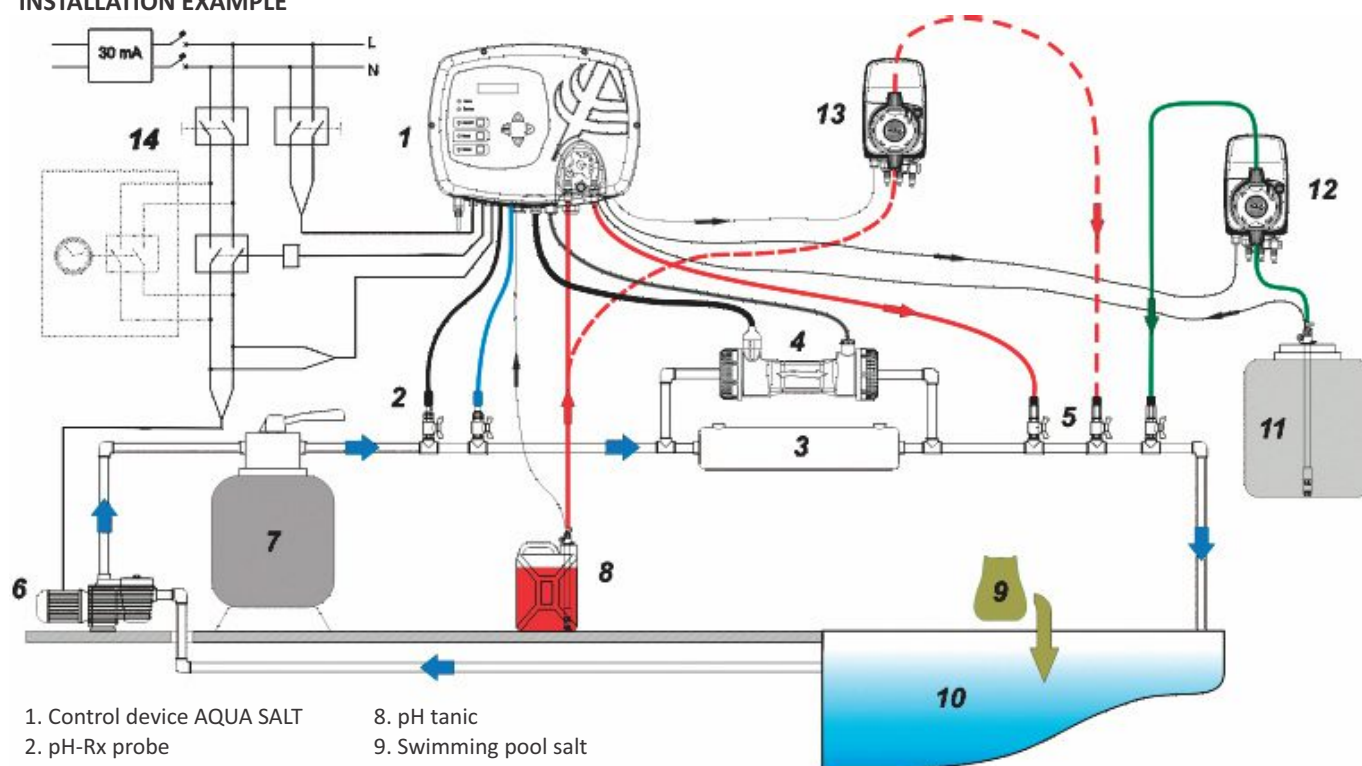
ELECTROLYSIS CELL

- In-line mounting
- Integrated flow sensor
- Integrated temperature probe
- Capacity from 50 to 200 m³

MODEL	STANDARD	pH	pH-CLJ	pH-RX
pH solenoid pump output	-	■	■	■
Brine solenoid pump output	-	■	■	■
Temperature probe	■	■	■	■
Electrolytic cell self cleaning	■	■	■	■
Replaceable electrolytic cell	■	■	■	■
Chlorine auto production	-	-	■	■
Chlorine production compensated by temperature and UV	■	■	-	-
Hyperchlorination mode (boost)	■	■	■	■
Cover mode	■	■	■	■
Winter mode (winter)	■	■	■	■
Password	■	■	■	■
RS232 e RS485 connection	■	■	■	■
Bluetooth® connection	□	□	□	□
Electrolytic cell estimated lifetime	5/7 years	5/7 years	5/7 years	5/7 years
Flow sensor	■	■	■	■
pH reading and pH pump	-	■	■	■
Chlorine reading through cell AJ	-	-	■	-
Chlorine reading through redox electrode	-	-	-	■

■ Available - Not Available □ Optional

INSTALLATION EXAMPLE



1. Control device AQUA SALT
2. pH-Rx probe
3. Boiler
4. Electrolytic cell
5. pH injection valve
6. Recirculating pump
7. Sand filter
8. pH tank
9. Swimming pool salt
10. Swimming pool
11. Brine
12. Brine pump
13. pH additional pump
14. Wiring

CONTROL DEVICE

CODE	MODEL	MAX POOL DIMENSION m ³	POWER SUPPLY	POWER CONSUMPTION W	PACKING	WEIGHT kg	VOLUME m ³
ADSAL100	STANDARD	Up to 100	180-260 VAC 50/60 Hz	120 - 200	1	3	
ADSAL110	STANDARD	Up to 200	180-260 VAC 50/60 Hz	250 - 300	1	3	
ADSAL200	pH	Up to 100	180-260 VAC 50/60 Hz	120 - 200	1	3	
ADSAL210	pH	Up to 200	180-260 VAC 50/60 Hz	250 - 300	1	3	
ADSAL300	pH-RX	Up to 100	180-260 VAC 50/60 Hz	120 - 200	1	3	
ADSAL310	pH-RX	Up to 200	180-260 VAC 50/60 Hz	250 - 300	1	3	
ADSAL400*	pH-CLJ*	Up to 100	180-260 VAC 50/60 Hz	120 - 200	1	3	
ADSAL410*	pH-CLJ*	Up to 200	180-260 VAC 50/60 Hz	250 - 300	1	3	

*Installed on thermoformed panel

ELECTROLYSIS CELL

CODE	MODEL	CHLORINE PRODUCTION g/h	MAX POOL DIMENSION m ³	SALT LEVEL g/l	PACKING	WEIGHT kg	VOLUME m ³
ADCEL050	cella 50	10	Up to 50	3,5/4,5	1	1.5	
ADCEL100	cella 100	20	Up to 100	3,5/4,5	1	1.5	
ADCEL150	cella 150	30	Up to 150	3,5/4,5	1	1.5	
ADCEL200	cella 200	40	Up to 200	3,5/4,5	1	1.5	

• to be combined with control device

Disinfection



2- 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.
- Rated flow rate as per DIN/NSF/EPA at 30mj/cm2

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
UV-800	110	840	200x4	9000	3"	No	336 x 1210	1	50	0.6



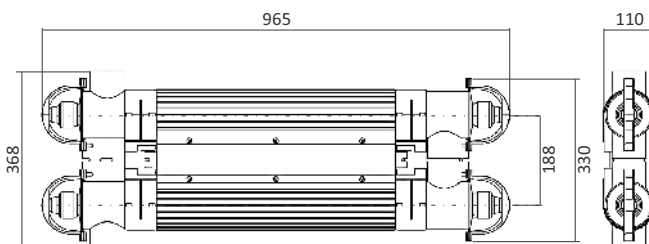
3- SPECTRUM UV POOL SYSTEM

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.



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

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

4- UV SYSTEM INDIUM

- Equipped by standard connections with BSP thread for maximum compatibility installation.
- Tubes of ultrapure quartz, obtained by extrusion, having a minimum permeability of 95%, to guarantee the maximum efficiency of germicidal lamps.
- The locking connectors as well the disinfection chamber are made by stainless steel AISI304 (on demand can be made by AISI316L).
- Germicidal lamps with new technology Indium+, high efficiency and long life. These lamps utilize a special combination of alloys to control the internal mercury vapor pressure across a wide temperature range. The result is maximum UV intensity for virtually all applications.



CODE	SH i+10	SH i+20	SH i+40	SH i+60	SH i+200
MAX. WORK TEMP	35°C	35°C	35°C	35°C	35°C
WORK PRESSURE	8 bar	8 bar	8 bar	8 bar	8 bar
FLOW RATE	10000 lt/h	20000 lt/h	40000 lt/h	60000 lt/h	200,000 lt/h
POWER ADSORBED	210 Watt	420 Watt	820 Watt	1220 Watt	2660 Watt
LAMPS	1x200W	2x200W	4x200W	6x200W	8x320W
LAMPS LIFE	16000 Hours	16000 Hours	16000 Hours	16000 Hours	16000 Hours
UV DOSE	>400 mw/cm ²	>400 mw/cm ²	>400 mw/cm ²	>400 mw/cm ²	>400 mw/cm ²
CHAMBER MATERIAL	S. Steel AISI304	S. Steel AISI304	S. Steel AISI304	S. Steel AISI304	S. Steel AISI304
DRAIN	1/4"	1/4"	1/2"	1/2"	1"
PORT SIZE IN-OUT	2" Gas M	2 1/2" Gas M	DN80	DN100	DN200
TOTAL HOUR COUNTER	Yes	Yes	Yes	Yes	Yes
UV METER	Optional	Optional	Optional	Optional	Optional
TEMPERATURE CONTROL	Yes	Yes	Yes	Yes	Yes
FAULTS ALERT	Yes	Yes	Yes	Yes	Yes
STATUS LAMP CONTROL	Yes	Yes	Yes	Yes	Yes
POWER SUPPLY	230VAC - 50/60HZ	230VAC - 50/60HZ	230VAC - 50/60HZ	230VAC - 50/60HZ	230VAC - 50/60HZ
IP CONTROL	IP 55	IP 55	IP 55	IP 55	IP 55
WIDTH	155 mm	340 mm	280 mm	280 mm	356 mm
HEIGHT	945 mm	945 mm	1130 mm	1130 mm	2000 mm
DEPTH	95 mm	95 mm	390 mm	390 mm	356 mm

Disinfection

UV-C DISINFECTION

UV-C Treatment

Over 100 years ago scientists discovered that the top surface of lake-water was sterile when exposed to sunlight. Investigation led to the discovery of Ultraviolet light. Situated in the electro-magnetic spectrum between X-rays and visible light, Ultraviolet (UV) light has many beneficial properties. UV light is split into four main categories, UV-A, UV-B, UV-C and Vacuum UV. The UV-C spectrum (200 to 280 nanometers) is the most lethal range of wavelengths for microorganisms. This range, with 254 nanometers being the peak germicidal wavelength, is known as the Germicidal Spectrum.

UV-C light has the ability to cause permanent damage to a wide variety of nuisance microorganisms in water. Certain species of microorganisms have now developed or adapted immunity to traditional disinfection techniques such as chlorine.

The Targeted Microorganism

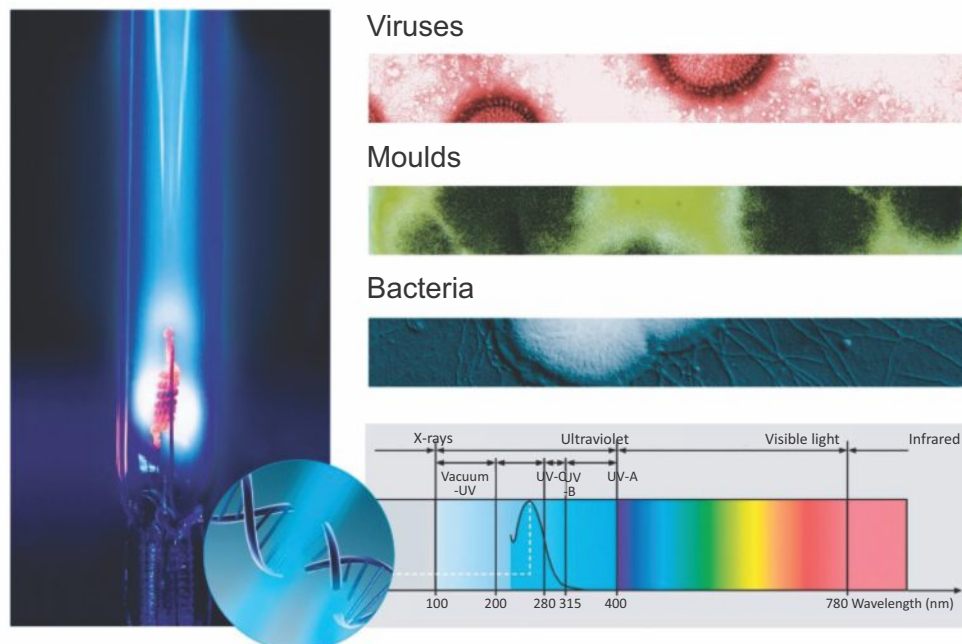
Each type of microorganism requires a specific UV-C radiation exposure rate to successfully complete the disinfection process. The targeted microorganism must be directly exposed to the UV-C radiation long enough for the radiation to penetrate the microorganism's cell wall. However, it takes only seconds for UV-C light rays to inactivate waterborne microorganisms by breaking through the microorganism's cell wall and disrupting their DNA. This often totally destroys the organism, or at the very least will impair its ability to reproduce.

UV-C Benefits

- Can reduce the use of chlorine and other chemicals up to 80%
- UV is effective against all micro-organisms
- Vastly improved water quality and a more pleasant bathing environment
- No red eyes or skin irritation
- No problems for people with asthma or allergies
- Crystal clear water and fresh clean air
- Breaks down chloramines and other organics
- Less use of other chemicals for water treatment
- No chemical byproducts created by the UV system
- Fully automatic and cannot be overdosed
- Lower cost in chemicals, energy and maintenance
- UV is a non hazardous, green technology

Flow-Dose Calculations

All parameters are kept the same except for the flow rate. The Flow dose relationship can be shown as follows:



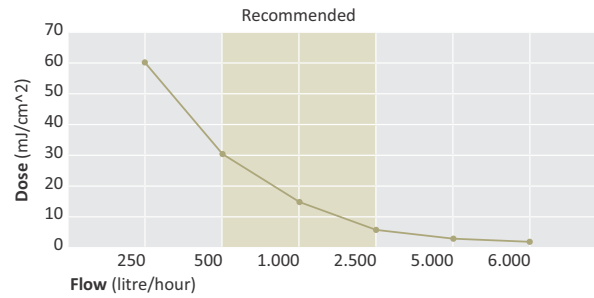
Flow - Dose Calculation

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The flow dose relationship can be shown as follows:

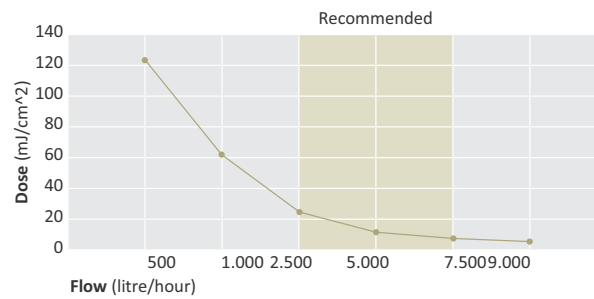
16W

Flow litre/hour	Dose mJ/cm ²	Exposure time (sec)
250	60,19	10,85
500	30,1	5,42
1.000	15,05	2,71
2.500	6,02	1,08
5.000	3,01	0,54
6.000	2,51	0,54



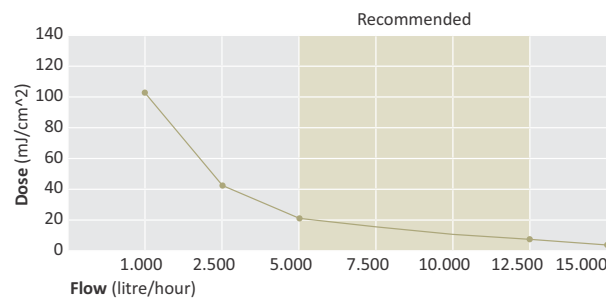
40W

Flow litre/hour	Dose mJ/cm ²	Exposure time (sec)
500	123,47	17,18
1.000	61,74	8,59
2.500	24,69	3,44
5.000	12,35	1,72
7.500	8,23	1,15
9.000	6,86	0,95



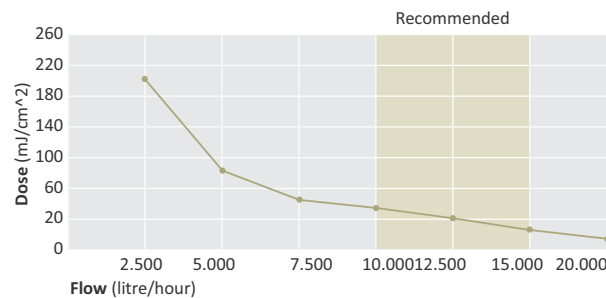
75W

Flow litre/hour	Dose mJ/cm ²	Exposure time (sec)
1.000	102,89	8,59
2.500	41,16	3,44
5.000	20,58	1,72
7.500	13,72	1,15
10.000	10,29	0,86
12.500	8,23	0,69
15.000	6,86	0,57



130W

Flow litre/hour	Dose mJ/cm ²	Exposure time (sec)
2.500	82,32	3,44
5.000	41,16	1,72
7.500	27,44	1,15
10.000	20,58	0,86
12.500	16,46	0,69
15.000	13,72	0,57
20.000	8,23	0,45



Disinfection



What is the disinfection mechanism of copper ionization?

Electrically charged copper ions (Cu^{2+}) in the water search

for particles of opposite polarity, such as bacteria, viruses and fungi. positively charged copper ions form electrostatic compounds with negatively charged cell walls of microorganisms. These compounds disturb cell wall permeability and cause nutrient uptake to fail. As a result, bacteria are no longer able to multiply and eventually die. The ions remain active until they are absorbed by a microorganism.

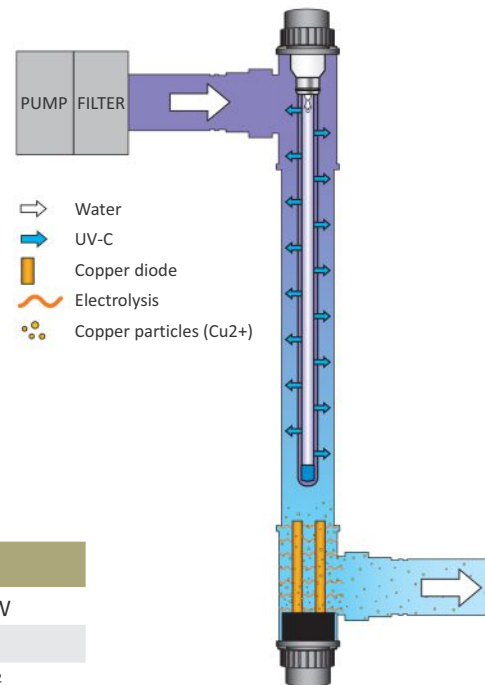


5- UV-C COPPER IONIZER

- A built-in electronic ballast to ensure a smooth power supply
- Enables swimming without the use of chlorine
- Up to 35% more UV-C yield as a result of reflection
- Easy installation and maintenance
- Comes with $\varnothing 63\text{mm}$ to $\varnothing 50\text{mm}$ fittings, 1 1/2" female threaded

OPERATION:

This revolutionary combination of UV-C and copper electrolysis means you can have a chlorine-free pool! With the UV-C Copper Ionizer you have to test your pool water once every two weeks. You only need to test your water values with the supplied test strips and, if necessary, adjust the device to the correct level. Other ionizer systems dose approximately 2 ppm copper in your pool water. With UV-C Copper Ionizer, a dose of 0,7 ppm will be enough to fully and safely disinfect your pool. This device is able to reduce the chlorine concentration up to 50-80%! Max. copper: 0,7 ppm. Connections: $\varnothing 63\text{mm}$. Please notice correct grounding!



CODE	UVC-01	UVC-02
TYPE	40.000/40W	75.000/75W
REC. FLOW	11 m ³ /h	16 m ³ /h
PERFORMANCE AT REC. FLOW ²	30 MJ/cm ²	30 MJ/cm ²
MAX. FLOW	23 m ³ /h	23 m ³ /h
MAX. PRESSURE	2 bar	2 bar
DIAMETER UNIT \varnothing	72 mm	72 mm
LENGTH UNIT	100 cm	100 cm
DIAMETER IN-OUTLET \varnothing	63 mm	63 mm
STAINLESS STEEL	316L	316L
ELECTRONIC BALLAST	230V AC 50/60Hz	230V AC 50/60Hz
MAXIMUM CURRENT	0,29A	0,57A
LAMP WATTAGE	40W	75W
LAMP TYPE	UV-C 40W	UV-C 75W
COPPER IONIZER	√ -0,7 ppm	√ -0,7 ppm
OZONE	-	-
TIMER	-	-
REPLACE LAMP ALERT	√	√
WEIGHT	5,0Kg	5,2Kg
PACKING SIZE	28x15x101 cm	28x15x101 cm
QUANTITY FULL PALLET	25 pcs	25 pcs

6- UVC TIMER

- Timer function that indicates the remaining lifetime of the lamp
- A built-in electronic ballast to ensure a smooth power supply
- Up to 35% more UV-C yield as a result of reflection by the Stainless Steel interior
- 316L stainless steel housing
- Easy to install and easy to maintain
- Comes with Ø63mm to Ø50mm fittings, 1½" female threaded

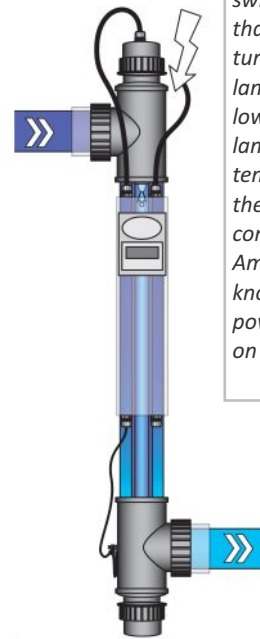
OPERATION:

The UV-C Timer has a built in Highfrequency electronic ballast. This ballast will capture current electronic fluctuations to protect the lamp. In addition, the device contains an integrated timer that accurately monitors the number of operating hours. You can therefore see exactly when the lamp must be replaced. Thanks to UV-C Timer your swimming pool water will be disinfected efficiently, safely, and the quality of your water will remain excellent.

The UV-C radiation neutralizes bacteria, viruses and other primitive organisms and stops them from multiplying. This device is able to reduce the chlorine concentration up to 50-80%!

Max. pressure:2 bar. Connections: Ø63mm. The amalgam version includes a flow switch that will turn off the lamp when the flow is too low. Amalgam UV-C light is known as being the most powerful UV-C light available on the UV-C market.

Please notice the correct grounding!



The amalgam version includes a flow switch that will turn off the lamp when the flow is too low. The UV-C Amalgam lamp is not affected by temperature fluctuations in the water and generates a constant, powerful radiation. Amalgam UV-C light is known as being the most powerful UV-C light available on the UV-C market.

CODE	UVC-04	UVC-05	UVC-06
TYPE	40.000/40W	75.000/75W	105.000/130W
REC. FLOW	11 m³/h	16 m³/h	22 m³/h
PERFORMANCE AT REC. FLOW ²	30 MJ/cm ²	30 MJ/cm ²	30 MJ/cm ²
MAX. FLOW	23 m³/h	23 m³/h	23 m³/h
MAX. PRESSURE	2 bar	2 bar	2 bar
DIAMETER UNIT Ø	72 mm	72 mm	72 mm
LENGTH UNIT	100 cm	100 cm	100 cm
DIAMETER IN-OUTLET Ø	63 mm	63 mm	63 mm
STAINLESS STEEL	316L	316L	316L
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
LAMP TYPE	Philips TUV 36T5 4P-SE	Philips TUV 36T5 HO 4P-SE	Philips TUV 4P-SE Amalgam lamp
COPPER IONIZER	-	-	-
OZONE	-	-	-
TIMER	√	√	√
REPLACE LAMP ALERT	√	√	√
DOSING PUMP	-	-	-
FLOW SWITCH	-	-	√
WEIGHT	4,1Kg	4,3Kg	4,5Kg
PACKING SIZE	28x15x101 cm	28x15x101 cm	28x15x101 cm
QUANTITY FULL PALLET	25 pcs	25 pcs	25 pcs

Disinfection



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 optimal life-span of the T5 lamp regarding UV-C is ± 9000 hours. For the ozone producing part this is about 4000 hours. After this period of time the intensity decreases. When you replace the lamp (for example) in March there will be enough ozone-production for the whole season (for example March to September) and there will be enough UV-C radiation for a whole year.

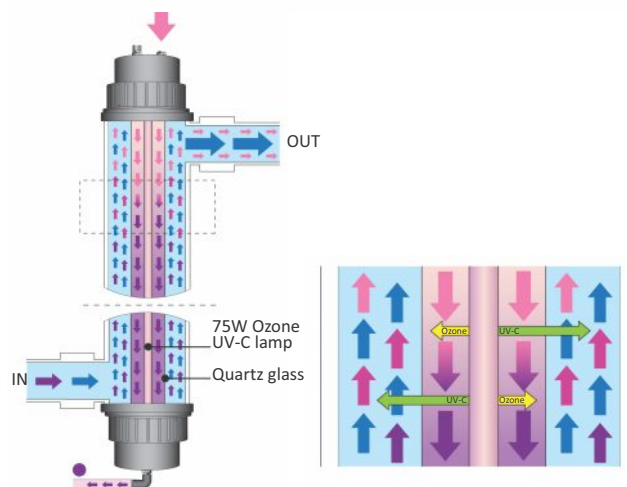
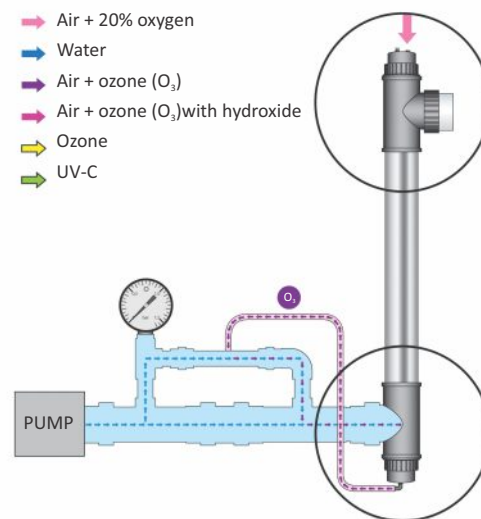
7- OZONE UV-C

- A built-in electronic ballast to ensure a smooth power supply
- Up to 35% more UV-C yield as a result of reflection
- 100% effective in constant operation
- 316L Stainless steel housing
- The Ozone UV-C lamp will last 4.000 hours (appr. 2 swimming seasons)
- The device will indicate when the lamp needs replacing
- Easy installation and maintenance

OPERATION:

This revolutionary combination of ozone and UV-C makes a pool with a minimal amount of chlorine possible! With the Ozone UV-C unit on your pool system you're able to keep your pool water fresh, crystal clear and especially hygienic clean. This device is able to reduce the chlorine concentration up to 50-80%! You connect the Ozone UV-C on to your swimming pool system. Using a pump, the water is pumped into the unit through the supplied reactor. Because of the water pressure in the reactor, air is sucked through the Venturi system. 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 by 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 UV-C radiation of the lamp. 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. Connections: $\varnothing 63$ mm. Please notice the correct grounding!

CODE	UVC-03
TYPE	75.000/75W
REC. FLOW	18m ³ /h
PERFORMANCE AT REC. FLOW ²	30 MJ/cm ²
MAX. FLOW	23 m ³ /h
MAX. PRESSURE	2 bar
DIAMETER UNIT \varnothing	72 mm
LENGTH UNIT	100 cm
DIAMETER IN-OUTLET \varnothing	63 mm
STAINLESS STEEL	316L
ELECTRONIC BALLAST	230V AC 50/60Hz
MAXIMUM CURRENT	0,57A
LAMP WATTAGE	75W
LAMP TYPE	Ozone lamp 75W
COPPER IONIZER	-
OZONE	v-0,6 gr/h
TIMER	√
REPLACE LAMP ALERT	√
DOSING PUMP	-
FLOW SWITCH	-
WEIGHT	6,0Kg
PACKING SIZE	37x13x111 cm
QUANTITY FULL PALLET	25 pcs



8- UV-C TECH

- A built-in electronic ballast to ensure a smooth power supply
- Up to 35% more UV-C yield as a result of reflection by the interior
- 316L stainless steel housing
- Easy to install and easy to maintain
- Including adapters Ø 63mm to Ø 50mm, 1½" female threaded

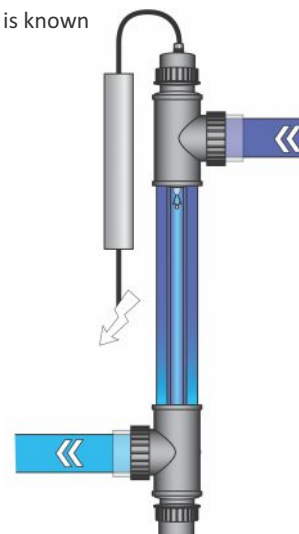
OPERATION:

The UV-C Tech will ensure that your pool water is clean, fresh and clear in an efficient and environmentally-friendly manner. The UV-C radiation neutralizes bacteria, viruses and other primitive organisms and stops them from multiplying. This device is able to reduce the chlorine concentration up to 50-80%! 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. The UV-C Tech 16W, 40W and 75W are equipped with a special T5 UV lamp with a unique socket. The amalgam version (UV-C Tech 130W) includes a flow switch that will turn off the lamp when the flow is too low. The UV-C Amalgam lamp is not affected by temperature fluctuations in the water and generates a constant, powerful radiation. Amalgam UV-C light is known as being the most powerful UV-C light available on the UV-C market.

Max. pressure: 2 bar. Please notice the correct grounding!



The amalgam version includes a flow switch that will turn off the lamp when the flow is too low. The UV-C Amalgam lamp is not affected by temperature fluctuations in the water and generates a constant, powerful radiation. Amalgam UV-C light is known as being the most powerful UV-C light available on the UV-C market.



CODE	UVC-07	UVC-08	UVC-09	UVC-10
TYPE	15.000/16W	40.000/40W	75.000/75W	150.000/130W
REC. FLOW	5 m ³ /h	11 m ³ /h	16 m ³ /h	22 m ³ /h
PERFORMANCE AT REC. FLOW ²	30 MJ/cm ²	30 MJ/cm ²	30 MJ/cm ²	30 MJ/cm ²
MAX. FLOW	23 m ³ /h	23 m ³ /h	23 m ³ /h	23 m ³ /h
MAX. PRESSURE	2 bar	2 bar	2 bar	2 bar
DIAMETER UNIT Ø	72 mm	72 mm	72 mm	72 mm
LENGTH UNIT	56 cm	100 cm	100 cm	100 cm
DIAMETER IN-OUTLET Ø	63 mm	63 mm	63 mm	63 mm
STAINLESS STEEL	316L	316L	316L	316L
ELECTRONIC BALLAST	230V AC 50/60Hz	230V AC 50/60Hz	230V AC 50/60Hz	230V AC 50/60Hz
MAXIMUM CURRENT	0,29A	0,29A	0,57A	1,1A
LAMP WATTAGE	16W	40W	75W	130W
LAMP TYPE	UV-C Tech 16W	UV-C Tech 40W	UV-C Tech 75W	130 Amalgam lamp
DOSING PUMP	-	-	-	-
FLOW SWITCH	-	-	-	√
UL CERTAIFIED	√	√	√	-
WEIGHT	2,8Kg	3,6Kg	3,9Kg	5,0Kg
PACKING SIZE	32.5x12x55 cm	28x12x99 cm	28x12x99 cm	28x12x99 cm
QUANTITY FULL PALLET	40 pcs	30 pcs	30 pcs	30 pcs

Disinfection



9- UV-C PRO

- A built-in electronic ballast to ensure a smooth power supply
- Up to 35% more UV-C yield as a result of reflection
- Philips UV-C lamp
- A flow switch will turn off the lamp at insufficient water flow
- Integrated adjustable time meter for the UV-C lamp
- Digital indication when the lamp needs replacing
- Complete 316L stainless steel housing
- Easy installation and maintenance

The UV-S PRO includes a flow switch that will turn off the lamp when the flow is too low.

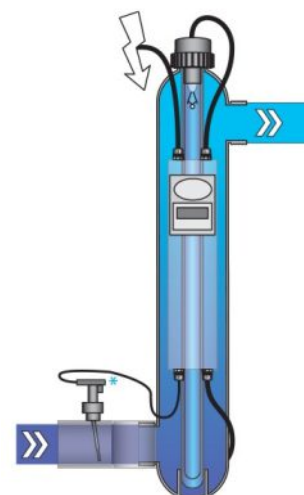


The UV-C Amalgam lamp is not affected by temperature fluctuations in the water and generates a constant, powerful radiation. Amalgam UV-C light is known as being the most powerful UV-C light available on the UV-C market.

OPERATION:

The UV-C Pro has a built-in high frequency electronic ballast, which absorbs current fluctuations, thereby protecting the lamp. Thanks to the UV-C Pro, your swimming pool water will be disinfected efficiently and safely, and the quality of your water will remain excellent. The UV-C radiation neutralizes bacteria, viruses and other primitive organisms and stops them from multiplying. This device is able to reduce chlorine concentration up to 50-80%! The UV-C Pro includes a flow switch that will turn off the lamp when the flow is too low. Amalgam UV-C light is known as being the most powerful UV-C light available on the UV-C market.

Connection: 2" male threaded. Please notice the correct grounding!



CODE	UVC-15	UVC-16
TYPE	75.000/75W	150.000/130W
REC. FLOW	18 m ³ /h	22 m ³ /h
PERFORMANCE AT REC. FLOW ²	30 MJ/cm ²	30 MJ/cm ²
MAX. FLOW	23 m ³ /h	23 m ³ /h
MAX. PRESSURE	5 bar	5 bar
DIAMETER UNIT Ø	120 mm	120 mm
LENGTH UNIT	100 cm	100 cm
DIAMETER IN-OUTLET Ø	2" male thread	2" male thread
STAINLESS STEEL	316L	316L
ELECTRONIC BALLAST	230V AC 50/60Hz	230V AC 50/60Hz
MAXIMUM CURRENT	0,57A	1,1A
LAMP WATTAGE	75W	130W
LAMP TYPE	Philips TUV 36T5 HO 4P-SE	Philips TUV 36T5 HO 4P-SE Amalgam
COPPER IONIZER	-	-
OZONE	-	-
TIMER	√	√
REPLACE LAMP ALERT	√	√
DOSING PUMP	-	-
FLOW SWITCH	√	√
WEIGHT	7,2Kg	7,3Kg
PACKING SIZE	26,5x19x106,5 cm	26,5x19x106,5 cm
QUANTITY FULL PALLET	20 pcs	20 pcs

10- UV-C PRO BUSTER

- A built-in electronic ballast to ensure a smooth power supply
- Up to 35% more UV-C yield as a result of reflection
- 3 powerful 130 Watt Amalgam lamps
- A flow switch will turn off the lamp at insufficient water flow
- Integrated adjustable timer for the UV-C lamp
- Digital indication when the lamp needs replacing
- Complete 316L stainless steel housing
- Easy installation and maintenance

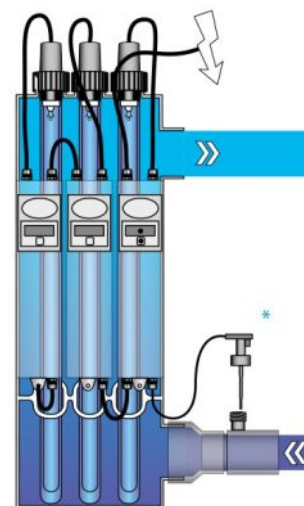
OPERATION:

The UV-C Pro Buster exists of 3 powerful 130 Watt UV-C Amalgam lamps and is therefore suitable for large pools. The Pro Buster includes a flow switch that turns off the lamp at too low flow. Amalgam UV-C is known as the most powerful UV-C light on the UV-C market! Thanks to UV-C Pro Buster your water will be disinfected in an efficient and safe way and you'll retain an excellent water quality. This device is able to reduce the chlorine concentration up to 50-80%!

Connection: 3" male threaded. Please notice the correct grounding!

SPECIFICATIONS	UVC-17
TYPE	150.000/3x130W
REC. FLOW	35m ³ /h
PERFORMANCE AT REC. FLOW ²	30 MJ/cm ²
MAX. FLOW	37 m ³ /h
MAX. PRESSURE	10 bar
DIAMETER UNIT Ø	158 mm
LENGTH UNIT	95 cm
DIAMETER IN-OUTLET Ø	3" male thread
STAINLESS STEEL	316L
ELECTRONIC BALLAST	230V AC 50/60Hz
MAXIMUM CURRENT	3x1,1A
LAMP WATTAGE	3x130W
LAMP TYPE	Philips TUV 36T5 HO 4P-SE Amalgam
COPPER IONIZER	-
OZONE	-
TIMER	√ (3x)
REPLACE LAMP ALERT	√ (3X)
DOSING PUMP	-
FLOW SWITCH	√
WEIGHT	16,7Kg
PACKING SIZE	115x36,5x36,5 cm
QUANTITY FULL PALLET	8 pcs

The amalgam version includes a flow switch that will turn off the lamp when the flow is too low. The UV-C Amalgam lamp is not affected by temperature fluctuations in the water and generates a constant, powerful radiation. Amalgam UV-C light is known as being the most powerful UV-C light available on the UV-C market.



11- 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



Disinfection

12- AQUA OZONE EQUIPMENT "POP-I & II"

AQUA POP-I & II are wall-mountable, air-cooled, very ultraviolet (VUV) radiation type ozone generator packages specifically designed for swimming pool applications. The package incorporates VUV type ozone generator(s), vacuum trigger box, PVDF check valve & venturi injector manifold. The ozone contacting vessel and degas valve are optional. These packages are capable of producing ozone in 2g/hr & 4g/hr.

DESIGN FEATURES

- Very Ultraviolet (VUV) Radiation
- Aluminum UV Bulb Housing
- 10,000.00hr UV Bulb Arc Life
- Universal Voltage Electronic Ballast(s)
- UV Bulb Failure indicator(s)
- Venturi Manifold Equipped
- Vacuum Trigger Box Equipped

BENEFITS

- Clearer, cleaner water
- Complete sanitation
- Superior oxidation
- No harmful by-products
- No or reduce chlorine usage
- Neutral PH of water



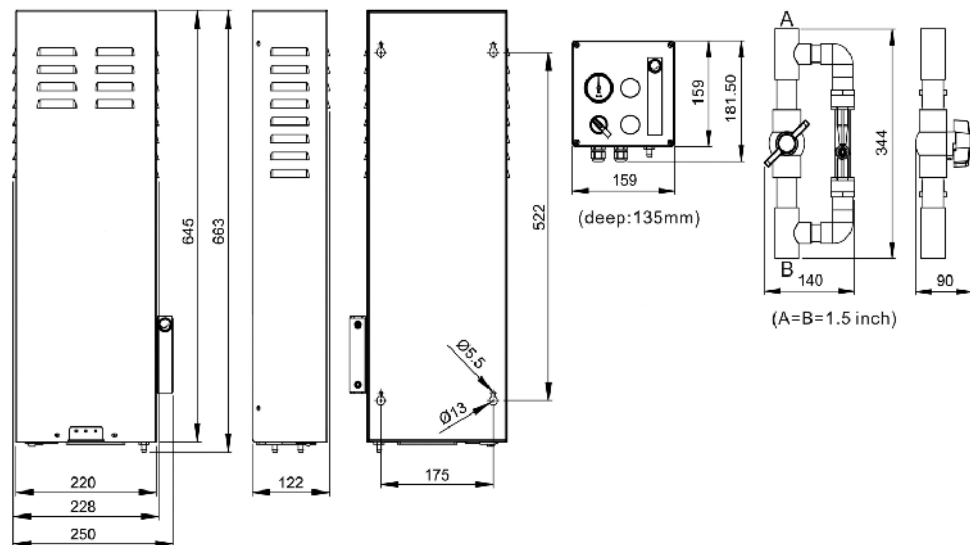
Vacuum Trigger Box



Injector Manifold



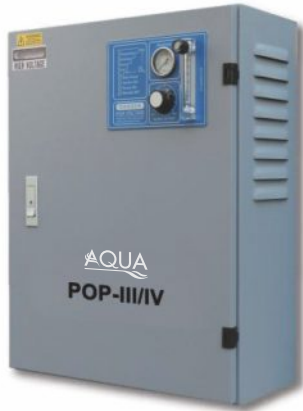
Ozone Generator



CODE	POP I	POP II
OZONE OUTPUT	2g/hr	4g/hr
MATCHED POOL VOLUME *	Up to 180m ³	Up to 360m ³
EQUIPPED GENERATOR QTY.	One	Two
VENTURI MANIFOLD CONNECTION SIZE	Inlet: 1.5"/50mm Outlet: 1.5"/50mm	Inlet: 1.5"/50mm Outlet: 1.5"/50mm
POWER REQUIREMENT ** (SINGLE PHASE)	120/240V 60/50HZ - 550W	120/240V 60/50HZ - 650W
OPTIONAL WATER BOOST PUMP REQUIREMENT	5m ³ @ 25m Head	5m ³ @ 25m Head
OPTIONAL ORP CONTROLLED	n/a	n/a
WEIGHT NET/GROSS	13/18 kg	22/32 kg

Note: " * " For indoor hotel pool with middle bather load & chlorine as secondary sanitizer only.

"**" Not include ozone boost water pump's power consumption.



Ozone Generator



Injector Manifold Auto Drain Valve

13- AQUA OZONE EQUIPMENT "POP-III & IV"

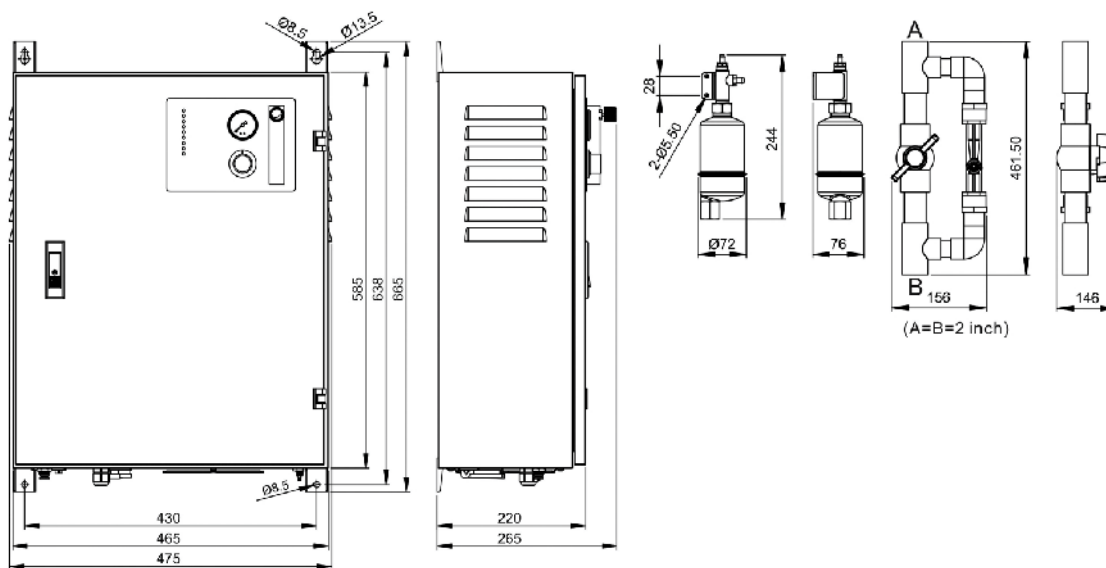
The POP-III & IV are wall-mountable, air-cooled, CD type ozone generator packages specifically designed for swimming pool applications. The package incorporates CD type ozone generator with internal PSA oxygen module and with the main function of vacuum triggered system On/Off control & ozone safe interlock, external oil-less compressor, water backflow prevention device and venturi injector manifold. The ozone contacting vessel, degas valve and ORP controller are optional. These packages are capable of producing ozone in 10g/hr & 20g/hr.

DESIGN FEATURES

- Corona Discharge (CD)
- Integrated PSA Module
- External Oil-less Compressor
- Automatic Vacuum Trigger
- Ozone ON/OFF Control
- 4-20 ma Ozone Control
- Venturi Injector Manifold
- Auto Drain Valve

BENEFITS

- Clearer, cleaner water
- Complete sanitation
- Superior oxidation
- No harmful by-products
- No or reduce chlorine usage
- Neutral PH of water



CODE	POP III	POP IV
OZONE OUTPUT	10g/hr	20g/hr
MATCHED POOL VOLUME *	Up to 450m ³	Up to 900m ³
EQUIPPED COMPRESSOR QTY. (FLOW @ PRESSURE)	One (60LPM @ 2bar)	One (60LPM @ 2bar)
VENTURI MANIFOLD CONNECTION SIZE	Inlet & Outlet: 1.5"/50mm (MIC: #1078)	Inlet & Outlet: 1.5"/50mm (MIC: #1078)
POWER REQUIREMENT ** (SINGLE PHASE)	120/240V 60/50HZ - 450W	120/240V 60/50HZ - 550W
OPTIONAL WATER BOOST PUMP REQUIREMENT	5m ³ @ 20m Head	5m ³ @ 20m Head
ORP CONTROLLED	Option	Option
WEIGHT NET/GROSS	24/30 kg	28/34 kg
EXTERNAL OIL-LESS COMPRESSOR WEIGHT NET/GROSS	11.5/13.5 kg	11.5/13.5 kg

Note: " * " For indoor commercial pool with middle bather load & chlorine as secondary sanitizer only.
 " ** " Not include water boost water pump's power consumption

Disinfection

14- AQUA OZONE EQUIPMENT "POS"

The POS series are turn-key, skid-mount, air-cooled, VUV or CD type ozone/water contacting systems specifically designed for swimming pool applications.

The system incorporates complete VUV or CD type ozone generator, oil-less compressor(s), system operation & function indicating control panel, ozone injector with bypass valve, water backflow prevention device, PVC contacting vessel with degas valve, gray epoxy powder coated mild steel cabinet with stainless steel mounting base and with the main function of vacuum triggered system On/Off control & ozone safe interlock both for VUV & CD type, ORP controlled ozone output auto adjusting only for CD type.

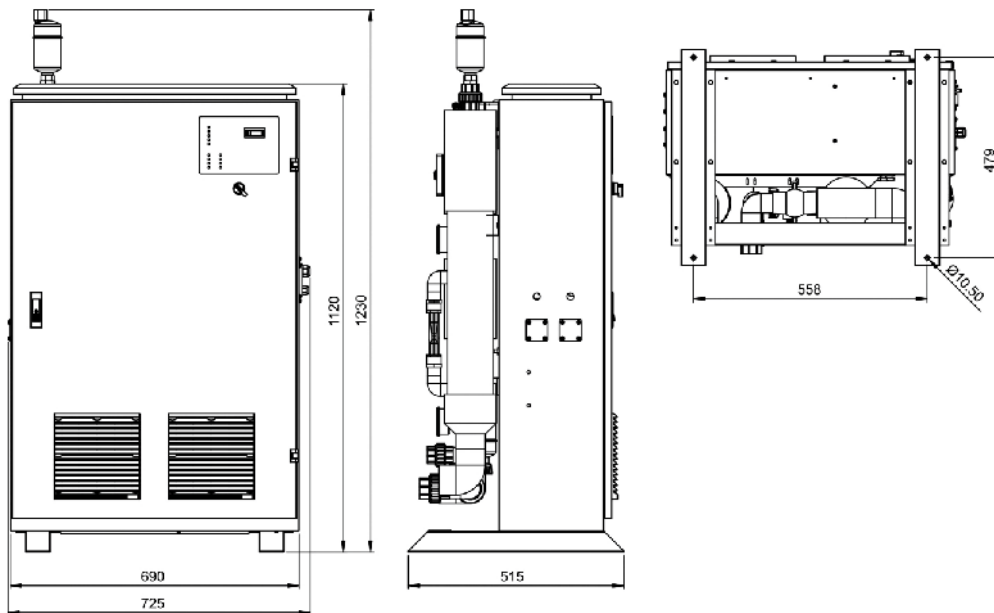
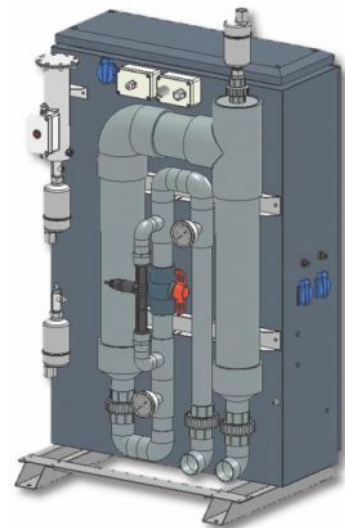
The water boost pump, ORP controller & ozone destructor are optional. POS in VUV type produces ozone in 4g/hr, 6g/hr & 8g/hr; POS in CD type produces ozone in 10g/hr, 20g/hr, 30g/hr & 40g/hr.

DESIGN FEATURES

- Corona Discharge (CD) or Very UV (VUV) radiation
- Integrated PSA Module(s)
- Contacting Vessel Combined
- Degas & Auto Drain Valves
- Oil-less Compressor(s) Equipped
- Automatic Control
- Ozone Boost Pump Optional
- ORP Controller Optional
- Ozone Destructor Optional

BENEFITS

- Clearer, cleaner water
- Complete sanitation
- Superior oxidation
- No harmful by-products
- No or reduce chlorine usage
- Neutral PH of water

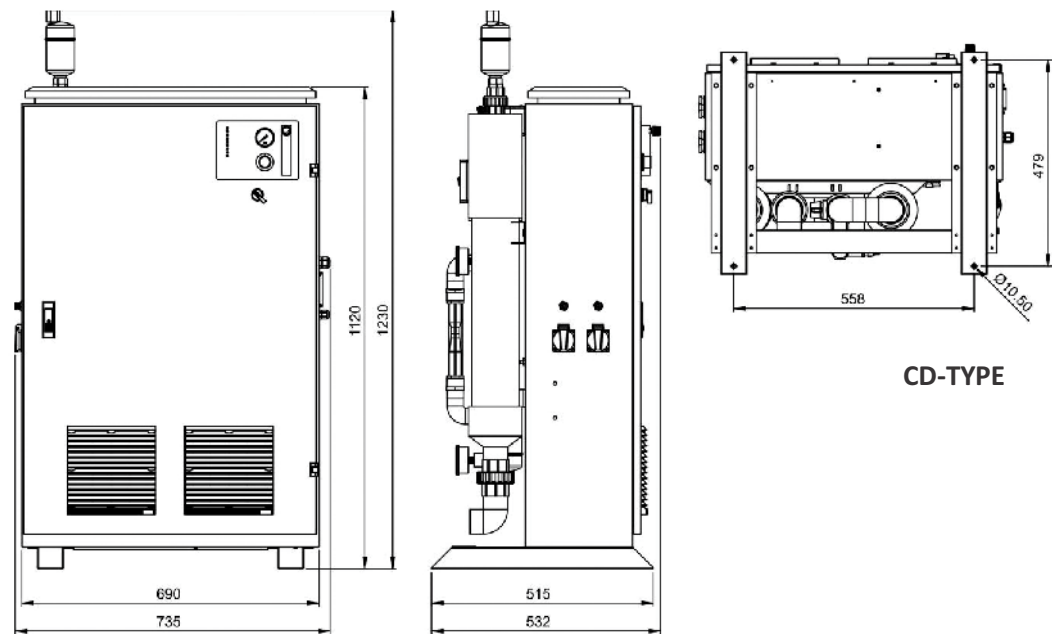


UV-TYPE

CODE	POS-4UV	POS-6UV	POS-8UV
OZONE OUTPUT	4g/hr	6g/hr	8g/hr
MATCHED POOL VOLUME *	Up to 360m ³	Up to 540m ³	Up to 720m ³
EQUIPPED COMPRESSOR QTY. (FLOW @ PRESSURE)	One (20LPM @ 0.05bar)	Two (20LPM @ 0.05bar)	Two (20LPM @ 0.05bar)
WATER CONNECTION SIZE	Inlet: 1.5"/50mm Outlet: 1.5"/50mm	Inlet: 1.5"/50mm Outlet: 1.5"/50mm	Inlet: 1.5"/50mm Outlet: 1.5"/50mm
POWER REQUIREMENT ** (SINGLE PHASE)	120/240V 60/50HZ - 450W	120/240V 60/50HZ - 550W	120/240V 60/50HZ - 650W
OPTIONAL WATER BOOST PUMP REQUIREMENT	3m ³ @ 20m Head	5m ³ @ 20m Head	5m ³ @ 20m Head
OPTIONAL ORP CONTROLLED	n/a	n/a	n/a
WEIGHT NET/GROSS	80/100 kg	80/100 kg	80/100 kg

Note: " * " For indoor hotel pool with middle bather load & chlorine as secondary sanitizer only.

"**" Not include ozone boost water pump's power consumption.



CD-TYPE

CODE	POS-10	POS-20	POS-30	POS-40
OZONE OUTPUT	10g/hr	20g/hr	30g/hr	40g/hr
MATCHED POOL VOLUME *	Up to 450m ³	Up to 900m ³	Up to 1350m ³	Up to 1800m ³
EQUIPPED COMPRESSOR QTY. (FLOW @ PRESSURE)	One (60LPM @ 2bar)	One (60LPM @ 2bar)	Two (120LPM @ 2bar)	Two (120LPM @ 2bar)
WATER CONNECTION SIZE	Inlet: 1.5"/50mm Outlet: 1.5"/50mm	Inlet: 1.5"/50mm Outlet: 1.5"/50mm	Inlet: 1.5"/50mm Outlet: 1.5"/50mm	Inlet: 1.5"/50mm Outlet: 1.5"/50mm
POWER REQUIREMENT ** (SINGLE PHASE)	120/240V 60/50HZ 450W	120/240V 60/50HZ 600W	120/240V 60/50HZ 1050W	120/240V 60/50HZ 1200W
OPTIONAL WATER BOOST PUMP REQUIREMENT	5m ³ @ 20m Head	5m ³ @ 20m Head	9m ³ @ 20m Head	9m ³ @ 20m Head
ORP CONTROLLED	Option	Option	Option	Option
WEIGHT NET/GROSS	95/115 kg	95/115 kg	95/115 kg	95/115 kg
OIL-LESS COMPRESSOR WEIGHT NET/GROSS	12.5/15 kg	12.5/15 kg	12.5/15 kg	12.5/15 kg

Note: " * " For indoor hotel pool with middle bather load & chlorine as secondary sanitizer only.

"**" Not include ozone boost water pump's power consumption.