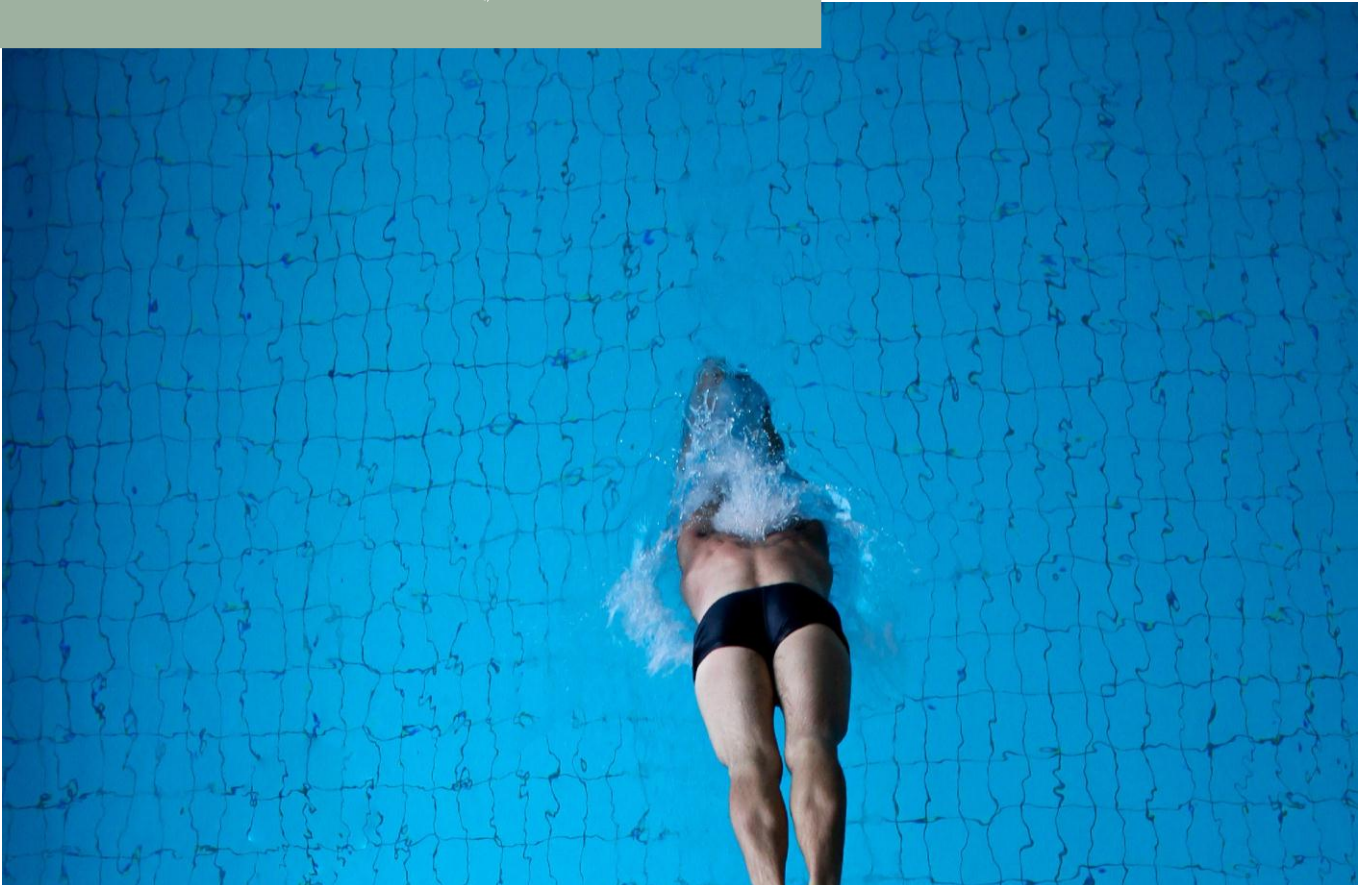


AQUA POOLS



# DISINFECTION

## INDEX

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# 01 AQUA SALT

## AQUA SALT™ SALT CHLORINATOR

### CONTEXT OF USE:

- For public and private pools
- Aqua salt control unit available in 4 versions:
  1. Standard model: internal/external time-controlled
  2. Model pH: same as standard model with additional control and dosing of acid/alkaline pH corrector/ via peristaltic pump;
  3. Model pH-Rx: same as model pH with additional Rx reading for modulation of Cell chlorine generation
  4. Model pH-CIJ: (mounted on a thermoformed panel): same as model pH with additional Cl reading (PPM) for modulation of Cell chlorine generation.

### TECHNICAL FEATURES:

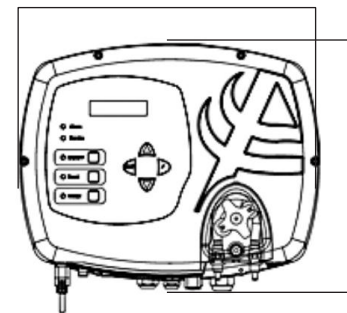
- Compatible with all sizes of electrolytic cells ADCEL
- IP65 protection
- Max working temperature 40°C
- Max chlorine production: 40 g/h\*\*
- Swimming pool dimension (Max)200mc\*
- Double safety on the presence of flow
- Language selection
- Pump feeding for salt concentration restoring
- Cell cleaning through polarity inversion
- Control of real use and maintenance alarms
- Approximate Salt level calculation with range alarms
- Additional timer for circulating pump
- Software for Windows-based management free for all models (RS232 port standard for all models)
- Power supply: 180÷260 Max consumption: 300 W
- Cell power supply: 24VDC 10 A
- Available upon request Bluetooth module for connection with APP for Android and Windows phone
- Available upon request MASTER/SLAVE version for parallel multiple connection for swimming pool bigger for 200m
- **PACKAGE SIZE (LXHXW):**  
405x200x311 mm



315mm



150mm



256mm

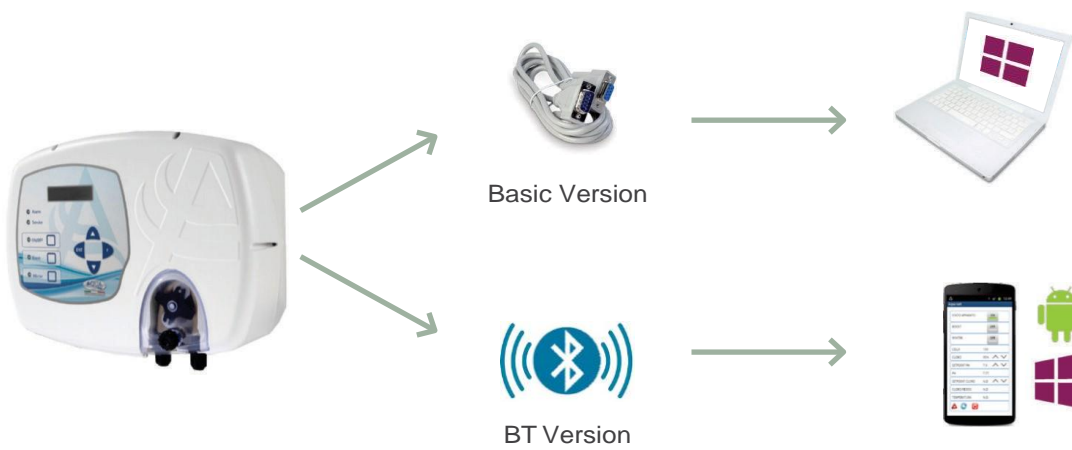
CODE	MODEL	SUITABLE FOR ADCEL	PERISTALTIC PH PUMP ACID/ALKALINE	PACKING	WEIGHT	VOLUME
					kg	m <sup>3</sup>
ADSAL110	AQUA SALT STANDARD	50-100-150-200	-	1	3.4	0.025
ADSAL210	AQUA SALT PH	50-100-150-200	1.4 lt/h - 1 BAR	1	3.4	0.025
ADSAL310	AQUA SALT PH-RX	50-100-150-200	1.4 lt/h - 1 BAR	1	3.4	0.025
ADSAL410	AQUA SALT PH-CLJ	50-100-150-200	1.4 lt/h - 1 BAR	1	3.4	0.025

\* The installer is in charge for the correct sizing of Chlorine capability that has to respect the country legislation.  
For intense use check Master-Slave option

\*\* If the production of 40g/h is not enough for your application you can evaluate the NEW Master/Slave configuration

ITEMS INCLUDED IN THE BOX

<b>STANDARD</b>		 ADSP6020156					
<b>PH</b>		 ADSP6020156	 ADELTPH05	 ADSPH05/7	 ADPSTC	 ADSP6000001	 ADSP6000551
<b>PH-RX</b>		 ADSP6020156	 ADELTPH05	 ADSPH05/7	 ADPSTC	 ADSP6000001	 ADSP6000551
	 ADELTX05G	 ADSRX	 ADSP6000111	 ADSPH05/7			
<b>PH-CLJ</b>		 ADFV3	 ADELTPH05	 ADSPH05/7	 ADSP6000049	 ADSP6000001	 ADSP6000551
	 ADELCLJ25S	 ADSP6000440	 ADSP5005002 ADSP5004002				



With Aqua Salt Bluetooth at any time, you can turn on and turn off the device, activate/deactivate boost, activate/deactivate winter mode, increase/decrease the percentage of chlorine in the pool, read the value of pH and Redox, check alarms, set setpoint of the measures of interest

## STABILIZED SALT

Stabilized salt for electrolysis cells, it is often said that common salt or softeners work just as fine. That's wrong! The specific salt for pool contains the stabilizer, which is necessary to keep "Strong" the bonds of the produced chlorine, otherwise very likely to break up due to UV rays. This is what actually guarantees water disinfection



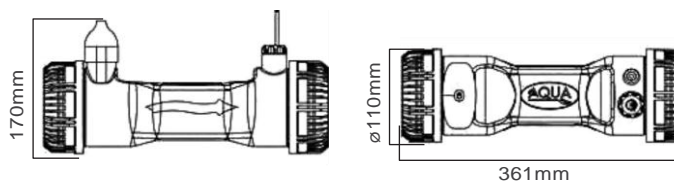
**DESCRIPTION:**

- NaCl
- Acid isocyanurate
- Magnesium

CODE	DESCRIPTION	WEIGHT	VOLUME
		kg	m <sup>3</sup>
700100085	Fine-grained stabilized salt -bags kg.25	18	0.25

## ADCEL ELECTROLYTIC CELL

The disinfectant chlorine is produced in the electrolytic cell thanks to an electrolytic reaction that gives sodium hypochlorite from an aqueous solution of sodium chloride. It contains the flow sensor, the titanium plates and a PT100 probe to measure the temperature. The correspondence between swimming pool dimension and cell model is indicative. Please refer to Chlorine production data.



**TECHNICAL FEATURES:**

- Titanium plates
- Connection pins made in AISI 316
- In-built flow sensor
- PT100 temperature probe
- Max. operating pressure: 3.75 bar
- Max. chlorine production: 40 g/h\*\*
- Hydraulic connections of the cell: d.50 or d.63

- Max water hardness 30°F\*
- Transparent body of the replaceable cell
- Cell power supply: 24VDC
- Max. absorbed power: 240 W

Note: For water hardness higher than 30°F we recommend anti-scale devices (water softeners)

**PACKAGE SIZE (LXHXW):**

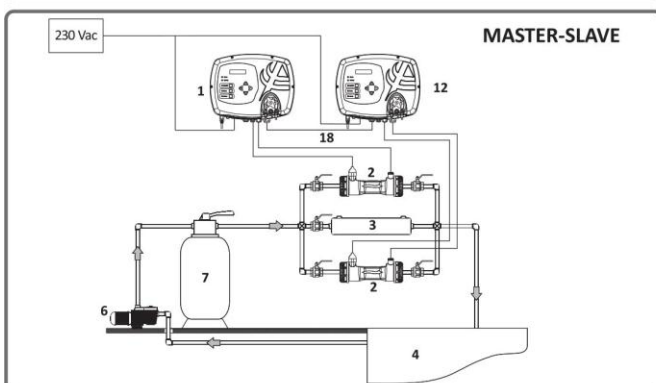
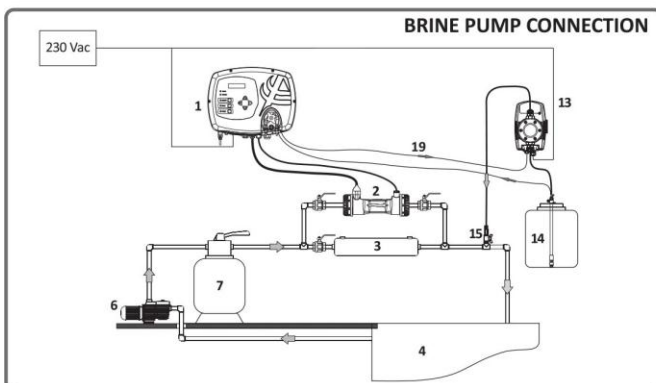
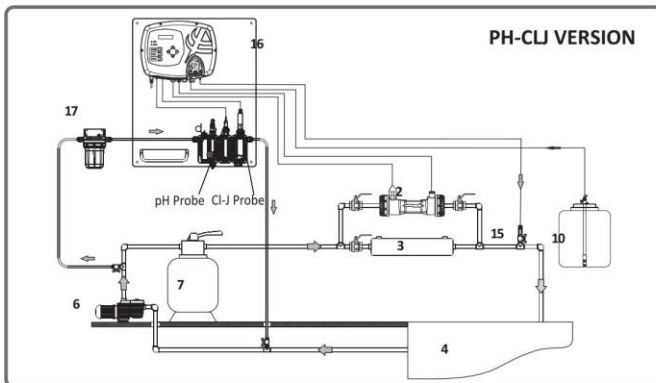
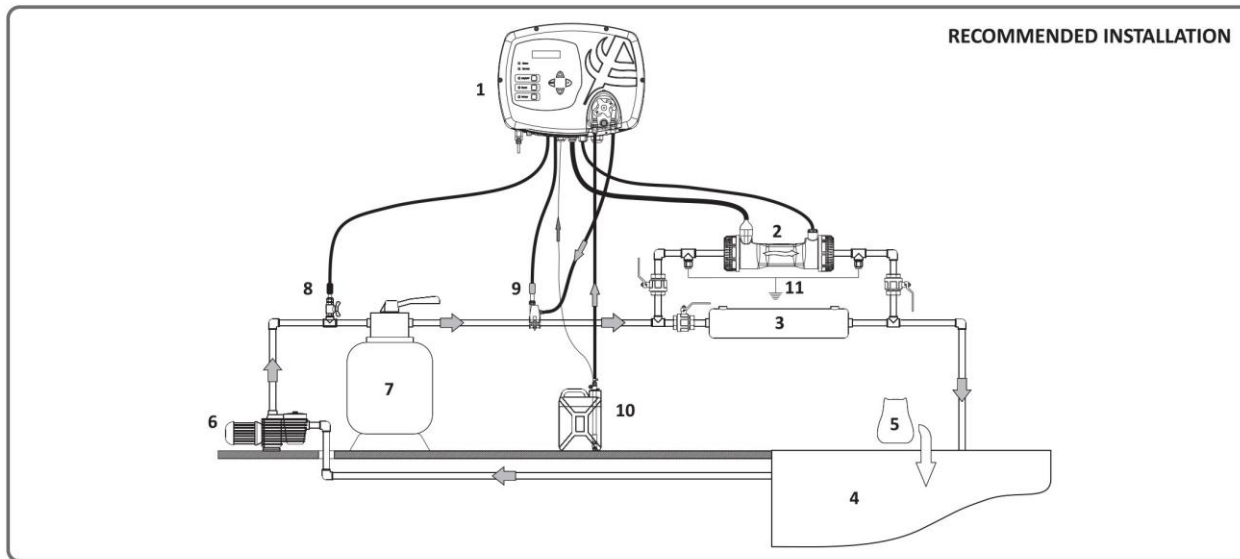
385x150x140 mm

CODE	MODEL	MAX. POOL DIMENSION	CHLORINE PRODUCTION	RECOMMENDED SALT LEVEL	MAX SALT LEVEL	PACKING	WEIGHT	VOLUME
		m <sup>3</sup>	g/h	g/lt	g/lt		kg	m <sup>3</sup>
ADCELSPA	SPA	Up to 5	Up to 0.8	3.5 - 4.5	8	1	1.9	0.008
ADCEL050	50	Up to 50*	Up to 10	3.5 - 4.5	8	1	1.9	0.008
ADCEL100	100	Up to 100*	Up to 20	3.5 - 4.5	8	1	1.9	0.008
ADCEL150	150	Up to 150*	Up to 30	3.5 - 4.5	8	1	1.9	0.008
ADCEL200	200	Up to 200*	Up to 40	3.5 - 4.5	8	1	1.9	0.008

\* The installer is in charge for the correct sizing of Chlorine capability that has to respect the country legislation. For intense use check Master-Slave option

\*\* If the production of 40g/h is not enough for your application you can evaluate the NEW Master/Slave configuration

## INSTALLATION EXAMPLE



1. Aqua Salt control unit (Master in Master/Slave system)
2. Electrolytic cell
3. Heater
4. Swimming pool
5. Salt
6. Recirculating pump
7. Sand filter
8. Collar with Rx probe
9. Collar 2 in 1 with pH probe and injection of pH corrector pH
10. pH corrector
11. Grounding kit connection
12. Aqua Salt Slave
13. HC899 pump for brine dosage
14. Brine tank with lance and level sensor
15. Collar with injection junction
16. Aqua Salt pH-CLJ panel with probe and probe holder
17. Prefilter for pH-CLJ panel
18. Connecting cable for Master-Slave
19. Connecting cable for brine pump

### NEW CONFIGURATION MASTER / SLAVE

Thanks to the new MASTER / SLAVE version available on request for 2016 you can now connect in parallel a desired number of AQUA SALT systems. In this way the chlorine generation capacity is not limited to 40g per hour but can reach any required value.

When connecting MASTER / SLAVE, the main system ( MASTER ) powers on the N secondary systems ( SLAVE ).

The Master System can be either Standard / PH / PH - RX / PH - CLJ, the SLAVE system is always a Standard type.

In order to select your MASTER / SLAVE system please contact the sales offices of AQUA SPA.

## 02 COMMERCIAL SALT CHLORINATOR

**AutoChlor**

### FRESH WATER ELECTROLYSERS CHLORINE GENERATOR



- Reverse polarity leads to reduction in maintenance by de-scaling calcium build-up on the electrode
- Powered by switch mode power supply (SMPS)
- Considerably more efficient than transformer powered electrolyzers/chlorine generators
- Expected electrode life – 45,000 hours
- Build-in cell cleaning function
- Sealed, internally cooled power supply (IP 44)
- Skid mounted modular design
- TDS Range: 1,200 – 4,000 ppm
- Warranty – 3 years

MODEL	CHLORINE g/h		POWER KW		MINIMUM WATER FLOW	DN	DIMENSION	PACKING	WEIGHT	VOLUME
	at 1200 mg/l TDS	at 2500 mg/l TDS	at 1200 mg/l TDS	at 2500 mg/l TDS			L x W x H (cm)		kg	m <sup>3</sup>
FDRCN-65	65	98	1.1	0.93	80	50	120 x 62 x 127	1	172	
FDRCN-100	98	147	1.66	1.39	120	50	120 x 62 x 127	1	178	
FDRCN-130	130	196	2.2	1.85	230	80	137 x 62 x 148	1	234	
FDRCN-200	195	294	3.31	2.78	230	80	137 x 62 x 148	1	238	
FDRCN-260	260	392	4.41	3.7	480	100	160 x 65 x 159	1	310	
FDRCN-325	325	490	5.51	4.63	480	100	160 x 65 x 159	1	320	
FDRCN-400	390	588	6.61	5.55	480	100	160 x 65 x 159	1	340	
FDRCN-550	552	833	9.36	7.86	750	125	140 x 100 x 159	1	470	
FDRCN-650	650	980	11.02	9.25	750	125	140 x 100 x 159	1	490	
FDRCN-800	780	1180	13.22	11.14	900	150	156 x 940 x 159	1	540	
FDRCN-1100	1105	1670	18.73	15.77	1280	150	166 x 118 x 159	1	740	
FDRCN-1300	1300	1742	22.03	16.45	1710	150	166 x 118 x 159	1	890	
FDRCN-1700	1660	2500	28.14	23.6	1920	200	175 x 160 x 159	1	1170	
FDRCN-2000	1950	2613	33.05	24.66	2250	250	175 x 160 x 159	1	1340	
FDRCN-2200	2210	3330	37.46	31.44	2580	250	186 x 185 x 159	1	1650	
FDRCN-2600	2600	3480	44.07	32.88	3000	250	186 x 185 x 159	1	1980	
FDRCN-2800	2760	4165	46.78	39.32	3200	300	256 x 203 x 159	1	2470	
FDRCN-3300	3315	4998	56.27	47.18	3750	300	270 x 203 x 159	1	2580	
FDRCN-4000	3900	5226	66.1	49.33	4500	300	270 x 203 x 159	1	2750	

## SALT WATER ELECTROLYSERS

- Reverse polarity leads to reduction in maintenance by de-scaling calcium build-up on the electrode
- Powered by switch mode power supply (SMPS)
- Considerably more efficient than transformer powered chlorine generators
- Expected electrode life – 45,000 hours
- Build-in cell cleaning function
- Sealed, internally cooled power supply
- Skid mounted design (Ip44)
- Salinity 4000ppm – 35000ppm / sea water
- Warranty – 3 years



MODEL	CHLORINE	POWER CONSUMPTION	MINIMUM WATER FLOW	PIPE DN	DIMENSION	PACKING	WEIGHT	VOLUME
	Grams/Hours	kW	Liters/Minute		L x W x H (cm)		kg	m <sup>3</sup>
SRC-100	100	0.58	150	50	92 x 78 x 113	1	140	
SRC-150	150	0.87	150	50	92 x 78 x 113	1	160	
SRC-200	200	1.16	150	50	100 x 97 x 112	1	190	
SRC-300	300	1.74	150	50	100 x 97 x 112	1	200	
SRC-400	400	2.32	150	50	101 x 102 x 123	1	210	
SRC-500	500	2.9	150	50	101 x 102 x 123	1	220	
SRC-625	625	3.63	150	50	101 x 102 x 123	1	200	
SRC-800	800	4.64	480	100	160 x 65 x 159	1	350	
SRC-1000	1000	5.8	390	80	140 x 100 x 159	1	400	
SRC-1250	1250	7.25	390	80	140 x 100 x 159	1	420	
SRC-1500	1500	8.7	390	80	140 x 100 x 159	1	450	
SRC-2000	2000	11.6	720	125	170 x 118 x 159	1	650	
SRC-2500	2500	14.5	720	125	170 x 118 x 159	1	700	
SRC-3000	3000	17.4	720	125	170 x 118 x 159	1	750	

## 03 “QUANTUM”

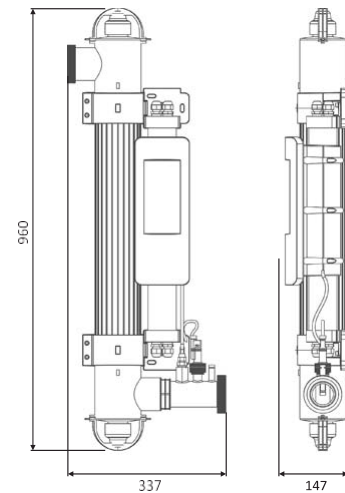
**ELEGR**  
ENGINEERING

### FEATURES:

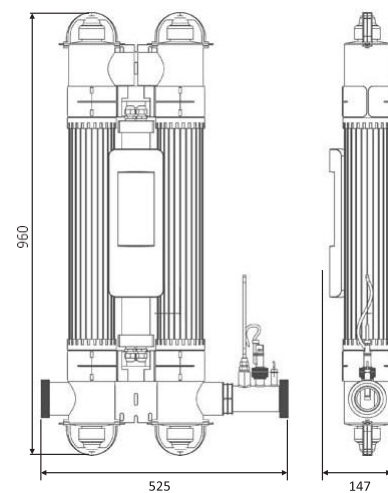
- Combined Photocatalytic & Hydroxyl Radical technology: most powerful, proven oxidizer
- The only water treatment technology available that breaks down organics such as sun tan oil and urea, converting them back into their harmless molecular form
- The powerful technology has the ability to instantly destroy all viruses, bacteria and pathogens
- Destroys harmful chloramine
- Two power options:
  - 55 Watts for flow rates up to 16m<sup>3</sup>/hour (65m<sup>3</sup> pool volume)
  - 110 Watts for flow rates up to 32m<sup>3</sup>/hour (130m<sup>3</sup> pool volume)
- Ensures a significant reduction in chemical consumption
- Reaction is contained within the chamber releasing only pure, fresh water
- Comes pre-assembled with all necessary sensors and control components
- Ultimate sterilization without compromise to health; eliminates sore eyes, itchy skin, discolored hair, strong odors whilst creating no risk to the health of pool users
- Sea water compatible
- 14,000-hour lamp life
- All Quantum units are supplied complete with flow switch, lamp life indicator (long-life 14,000 hour lamps) and reset switch



Q-65-UK



Q-130-UK



**OPERATION:**

The Quantum is a brand new technology to the swimming pool industry with the benefit of being used and approved by high profile industries such as hospitals and drinking water purification companies.

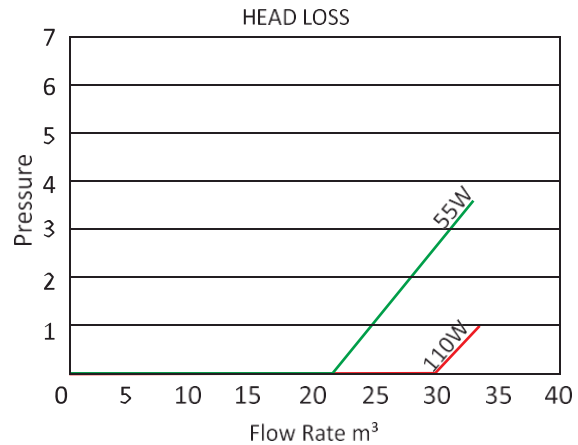
Quantum uses new Nano Crystal technology: a prime focus of the science world today; possessing the power to sterilize sewerage into drinking water without the use of chemicals.

In fact one of the many benefits of the Quantum is a significant reduction of residual chemicals such as chlorine or hydrogen peroxide.

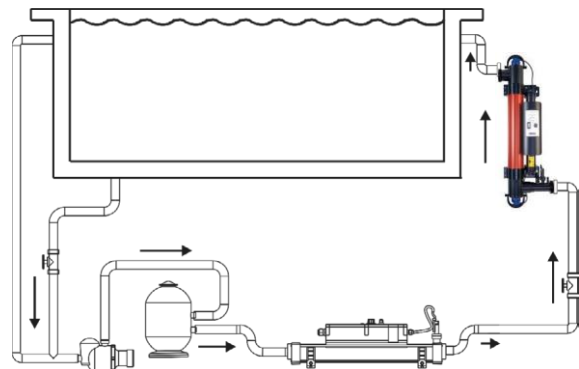
Built to be installed easily into your existing set-up, the Quantum is completely safe and significantly more powerful than chlorine, hydrogen peroxide, UV or ozone. Photocatalytic Oxidisation has an immensely powerful effect with the ability to instantaneously destroy viruses, bacteria and pathogens, and more astoundingly possessing the ability to convert suntan oil, urea and other contaminants back in to their harmless molecular form.

The first cost-effective photocatalytic oxidizer specifically for the swimming pool industry, for a toxic free swimming sensation. Not only does it eliminate undesirable side-effects such as sore eyes, itchy dry skin, discolored hair and strong odours, but it also makes water crystal clear, and most importantly it creates no risk to the lungs or health of bathers and swimming pool attendants.

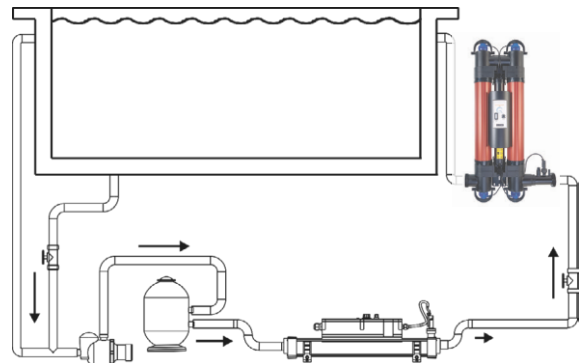
Quantum units are supplied complete with flow switch and a lamp life indicator (which flashes 'Red' when the UV lamps are required to be changed after 14,000 hours) and reset.



INSTALLATION OF Q-65-UK



INSTALLATION OF Q-130-UK



CODE	Q-65-UK	Q-130-UK
TYPE	Single Tube	Double Tube
VOLTAGE AND FREQUENCY	220V ~ 240V 50/60Hz or 110V ~ 120V 50/60Hz	
MAX. OPERATING PRESSURE	3 bar	3 bar
MAX. POWER CONSUMPTION	64 W	128 W
LAMP	Low pressure / High output	
LAMP LIFE	14,000 hours	14,000 hours
MINIMUM FLOW RATE	4 m <sup>3</sup> /h	4 m <sup>3</sup> /h
MAXIMUM FLOW RATE	16,000 litres per hour (16 m <sup>3</sup> /h)	32,000 litres per hour (32 m <sup>3</sup> /h)
MAXIMUM POOL SIZE	65 m <sup>3</sup>	130 m <sup>3</sup>
IP RATING	IP65	IP65
WATER CONNECTIONS	2" / 63 mm stepped and reducers 1 1/2" / 50 mm	
DOSING RATE	Exceeds the equivalent of 30mj/cm <sup>2</sup> at maximum flow rate	
SALT WATER	100% sea water safe	
APPROVALS	CE approved	
OXIDISATION PROCESSES	Quantum photocatalytic oxidiser (PCO) & hydroxyl radicals (OH)	

## 04 PRO POOL

**ELEGR**  
ENGINEERING

### FEATURES:

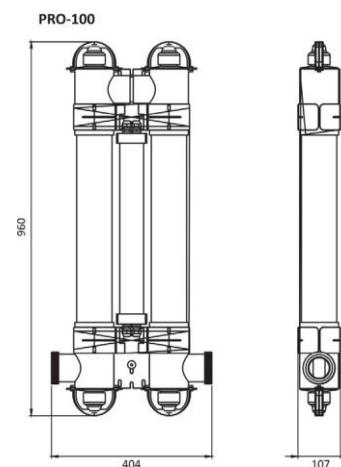
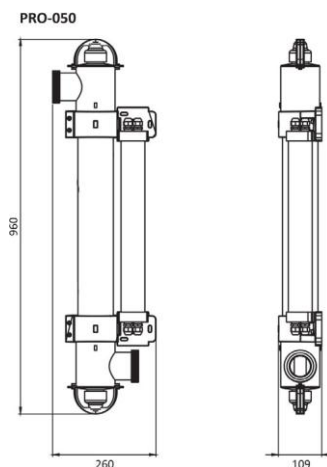
- Suitable for all pools as follows:
  - 55 Watts for flow rates up to 16m<sup>3</sup>/hour (65m<sup>3</sup> pool volume)
  - 110 Watts for flow rates up to 32m<sup>3</sup>/hour (130m<sup>3</sup> pool volume)
- Improves water quality
- Reduces harmful chloramines
- Controls bacteria, micro-organisms and pathogens
- Easily dismantled for maintenance / service
- Easy installation
- Robust, durable construction
- Low maintenance / running costs
- UV Lamps can be replaced without the need to drain the system
- Supplied with mounting brackets for easy wall fixing

### OPERATION:

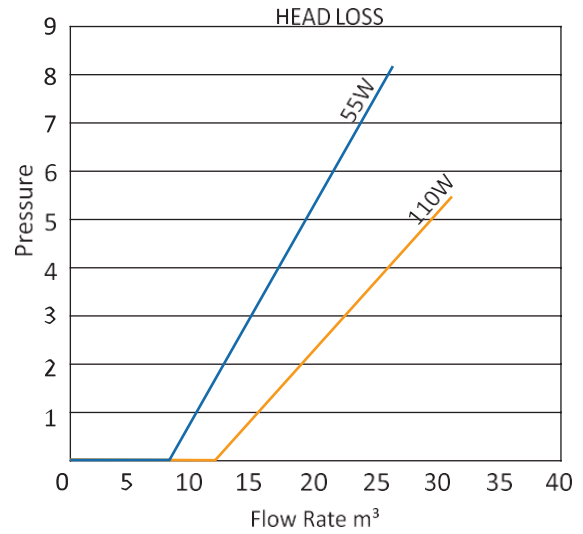
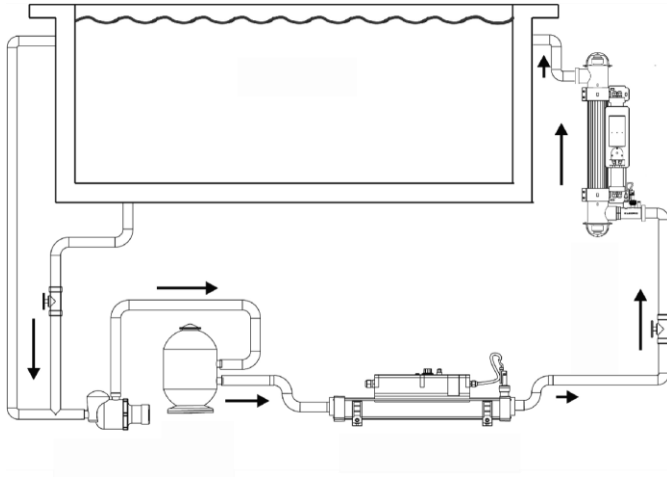
The PRO POOL UV is designed for disinfection of residential pool and spa water, providing cost effective treatment and improved water clarity. The system utilises high output, low pressure UV lamps powered by electronic ballasts which are housed within the center enclosure. The water is routed through 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 the water flow, avoiding the typical encrustations which would affect UV sanitizing performance.

The inlet and outlet allow easy connection onto existing or new pipework systems and provides complimentary protection against chlorine resistant organisms, 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.

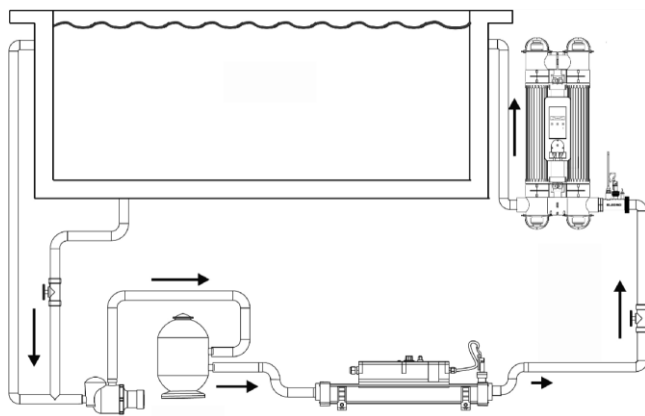
UV treatment introduces no by-products into the water, but also has no residual effect and therefore a small background level of disinfectant should always be maintained.



### INSTALLATION OF PRO-050



### INSTALLATION OF PRO-100



CODE	PRO-050	PRO-100
TYPE	Single Tube	Double Tube
VOLTAGE AND FREQUENCY	220V ~ 240V 50/60Hz or 110V ~ 120V 50/60Hz	
MAX. OPERATING PRESSURE	3 bar	3 bar
LAMP OUTPUT	55 W	110 W (2 x 55 W)
LAMP	Low pressure / High output	
UV-C OUTPUT	18 W	36 W
LAMP LIFE	8,000 hours	8,000 hours
MINIMUM FLOW RATE	4 m³/h	4 m³/h
MAXIMUM FLOW RATE	16,000 litres per hour (16 m³/h)	32,000 litres per hour (32 m³/h)
MAXIMUM POOL SIZE	65 m³	130 m³
IP RATING	IP65	IP65
WATER CONNECTIONS	2" / 63 mm stepped and reducers 1 1/2" / 50 mm	
DOSING RATE	Exceeds the equivalent of 30mj/cm² at maximum flow rate	
SALT WATER	100% sea water safe	
APPROVALS	CE approved	

## 05 HR UVC STERILISER

**ELEGRO**  
ENGINEERING

### FEATURES:

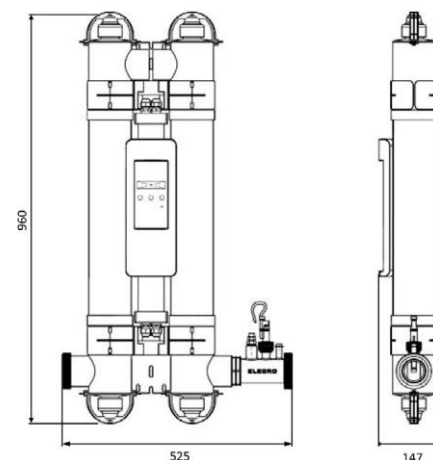
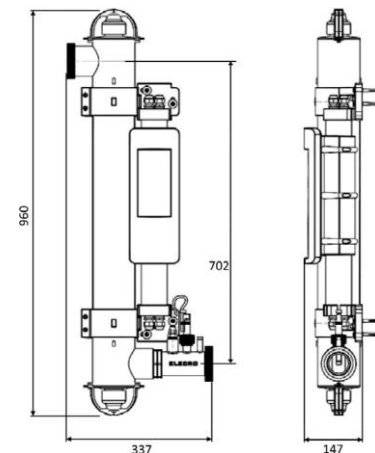
- Unrivalled reflection - up to 95% reflection is achieved drastically improving the efficiency.
- Compatible with and compliments all traditional treatment methods including; Chlorine, Bromine, Active Oxygen Hydrogen Peroxide and Salt electrolysis
- Narrow and extended chamber ensures maximum exposure to the powerful UV-C
- Long lamp life up to 9,000 hours
- Easy to use and install, can be retro-filled to any existing pool system.
- A self-cleaning system, reducing the need for maintenance.
- Intelligent lamp life indicator - signals when the lamps are no longer producing sufficient UV-C and need to be changed. Ensuring your unit is always performing optimally
- Supplied with T-Piece and flow switch

### OPERATION:

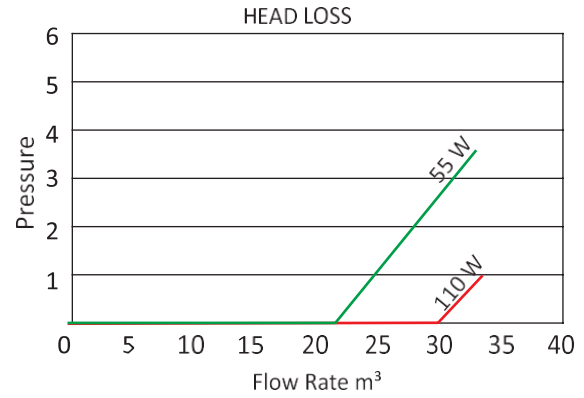
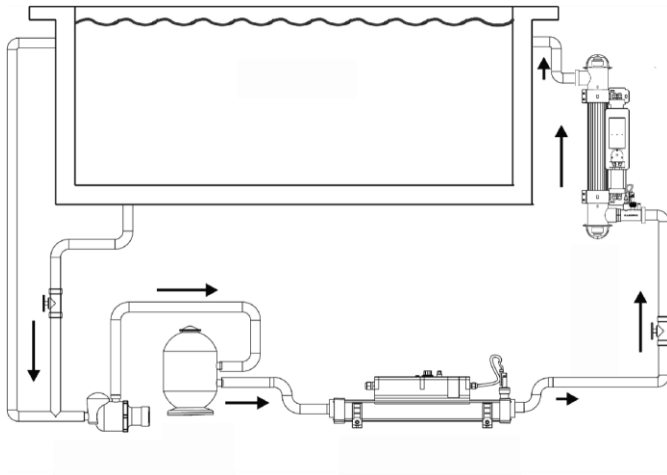
With the H.R.UV-C, up to 95% reflectivity is achieved (if you compare this to stainless steel reactors only 20 to 28% reflection is typically achieved). The H.R.UV-C is 100% sea and saltwater compatible, unlike stainless steel units that suffer corrosion issues.

The super reflective properties of the H.R.UV-C optimizes the UV-C radiation and dramatically increases the performance. The inside surface casing is extremely repellent and therefore self-cleaning.

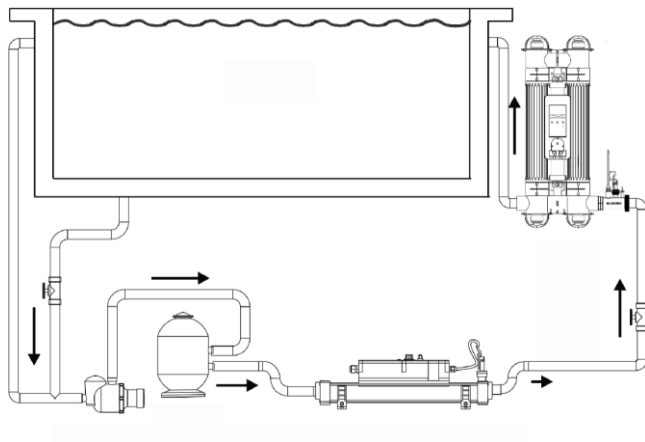
Intelligent electronics indicate when the lamps are not producing sufficient UV-C and need to be changed. Ensuring your unit is always performing optimally.



### INSTALLATION OF HR-550UK



### INSTALLATION OF HR-110-UK



CODE	HR-55-UK	HR-110-UK
TYPE	Single Tube	Double Tube
VOLTAGE AND FREQUENCY	220V ~ 240V 50/60Hz or 110V ~ 120V 50/60Hz	
MAX. OPERATING PRESSURE	3 bar	3 bar
LAMP OUTPUT	55 W	110 W (2 x 55 W)
LAMP	Low pressure / High output	
UV-C OUTPUT	64 W	128 W
LAMP LIFE	9,000 hours	9,000 hours
MINIMUM FLOW RATE		
MAXIMUM FLOW RATE	14 m³/h	28 m³/h
MAXIMUM POOL SIZE	65 m³	130 m³
IP RATING	IP65	IP65
WATER CONNECTIONS	2" / 63 mm stepped and reducers 1 1/2" / 50 mm	
DOSING RATE	Exceeds the equivalent of 30mj/cm² at maximum flow rate	
SALT WATER	100% sea water safe	
APPROVALS	CE approved	

## 06 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 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.
- Power supply: 230VAC -50/60 Hz



CODE	SH i+10	SH i+20	SH i+40	SH i+60	SH i+100	SH i+200
MAX. WORK TEMP	35°C	35°C	35°C	35°C	35°C	35°C
WORK PRESSURE	8 bar	8 bar	8 bar	8 bar	8 bar	8 bar
FLOW RATE	10000 lt/h	20000 lt/h	40000 lt/h	60000 lt/h	100,000 lt/h	200,000 lt/h
POWER ABSORBED	210 Watt	420 Watt	820 Watt	1220 Watt	1600 Watt	2660 Watt
LAMPS	1x200W	2x200W	4x200W	6x200W	4x330W	8x320W
LAMPS LIFE	16000 Hours	16000 Hours	16000 Hours	16000 Hours	16000 Hours	16000 Hours
UV DOSE	>400 mw/cm <sup>2</sup>	>400 mw/cm <sup>2</sup>	>400 mw/cm <sup>2</sup>	>400 mw/cm <sup>2</sup>	>400 mw/cm <sup>2</sup>	>400 mw/cm <sup>2</sup>
CHAMBER MATERIAL	S.Steel AISI316	S.Steel AISI316	S.Steel AISI316	S.Steel AISI316	S.Steel AISI316	S.Steel AISI316
DRAIN	1/4"	1/4"	1/2"	1/2"	1"	1"
PORT SIZE IN-OUT	2" Gas M	2 1/2" Gas M	DN80	DN100	DN125	DN200
TOTAL HOUR COUNTER	Yes	Yes	Yes	Yes	Yes	Yes
UV METER	Optional	Optional	Optional	Optional	Optional	Optional
TEMPERATURE CONTROL	Yes	Yes	Yes	Yes	Yes	Yes
FAULTS ALERT	Yes	Yes	Yes	Yes	Yes	Yes
STATUS LAMP CONTROL	Yes	Yes	Yes	Yes	Yes	Yes
IP CONTROL	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
WIDTH	155 mm	340 mm	280 mm	280 mm	280 mm	356 mm
HEIGHT	945 mm	945 mm	1130 mm	1130 mm	2000 mm	2000 mm
DEPTH	95 mm	95 mm	390 mm	390 mm	280 mm	356 mm

## 07 AQUA PRO UV

The AQUA Pro assortment consists of a complete range of industrial UV-C equipment.

The units provide healthy, clear and safe water. AQUA Pro UV-C purifiers are the driving force in an installation; they have the ability to keep the water free of algae, bacteria and fungi.

It is essential that the UV-C purifier seamlessly connects to the design and the components used in the filter installation.

- Each unit is equipped with a 316E Stainless Steel reactor.
- Each unit is equipped with a UV-C control unit.
- Each unit is equipped with transparent parts to monitor the UV-C light.
- Reactor length is exclusive lamp parts or/and connections.



CODE	RECOMMENDED FLOW	RECOMMENDED FLOW	RECOMMENDED FLOW
	at 30mj/cm <sup>2</sup> m <sup>3</sup> /h	at 40mj/cm <sup>2</sup> m <sup>3</sup> /h	at 60mj/cm <sup>2</sup> m <sup>3</sup> /h
AQUA PRO UV-75-114	7	5.1	3.5
AQUA PRO UV-140-114	12	8.5	6
AQUA PRO UV-420-168	33*	33*	26
AQUA PRO UV-200-154	24	18	12
AQUA PRO UV-400-204	50**	49	33
AQUA PRO UV-600-219	104	77	52

\* Maximum flow 30 m<sup>3</sup>/h

\*\* Maximum flow 50 m<sup>3</sup>/h

CODE	UV-C LAMP POWER CONSUMPTION	REACTOR Ø	REACTOR LENGTH	REACTOR SHAPE	CONNECTION	PACK-ING	WEIGHT	VOLUME
	W	mm	mm				kg	m <sup>3</sup>
AQUA PRO UV-75-114	75	114	850	U	2" male thread	1		
AQUA PRO UV-140-114	140	114	850	U	2" male thread	1		
AQUA PRO UV-420-168	3 x 140	168	850	U	3" male thread	1		
AQUA PRO UV-200-154	200	154	1100	U	90 mm DN85 flange	1		
AQUA PRO UV-400-204	2 x 200	204	1100	U	110 mm DN100 flange	1		
AQUA PRO UV-600-219	3 x 200	219	1100	U	140 mm DN125 flange	1		

## SMART PIN TECHNOLOGY

The VGE Pro UV-C Purifiers are equipped with the unique Smart Pin Technology (SPT).

This innovative system is a reliable way to integrate the UV-C lamp(s) in a safe, efficient and smart way in a reactor.

The SPT makes it possible to replace the lamp safely, although the system remains filled with water. If the lamp is mistakenly not turned off during the replacement, it will switch off automatically as soon as it is removed from the socket. Due to the seal between the lamp socket and lamp, the system can be used in situations where IPx4 is required.

The high-quality ceramic is an excellent electrical insulator and is resistant to corrosion.

A visual observation of the operation of the lamp is no problem through various transparent parts.



### **BENEFITS:**

- Prevents the release of harmful UV-C radiation
- Changing the UV-C lamp with water in the system
- Resistant to corrosion
- Splash proof
- Visual inspection for operation of the lamp
- Clamping system for optimal seal function
- Lamp replacement without tools



## AQUA PRO CONTROL UNITS

Each AQUA Pro UV-C purifier is equipped with a control cabinet.  
The following overview provides the advantages per control unit for a AQUA Pro UV-C purifier.

CONTROL UNIT	AQUA PRO Control Monitor	AQUA PRO Control Monitor Plus
		
APPLICABLE FOR THE FOLLOWING UNITS	AQUA PRO UV-75-114 AQUA PRO UV-140-114 AQUA PRO UV-420-168 AQUA PRO UV-200-154	AQUA PRO UV-400-204 AQUA PRO UV-600-219
ELECTRICAL BALLAST	<input type="checkbox"/>	<input type="checkbox"/>
MICROPROCESSOR CONTROLLED FUNCTIONS	<input type="checkbox"/>	<input type="checkbox"/>
UV MONITORING BY SENSOR	<input type="checkbox"/>	<input type="checkbox"/>
LAMP HOUR COUNTER	<input type="checkbox"/>	<input type="checkbox"/>
SWITCH-ON CYCLE COUNTER	<input type="checkbox"/>	<input type="checkbox"/>
INTERLOCK INPUT FOR EXTERNAL FLOW SWITCH	<input type="checkbox"/>	<input type="checkbox"/>
LCD DISPLAY & BUTTONS MOUNTED IN THE FRONT	<input type="checkbox"/>	<input type="checkbox"/>
MAIN SWITCH	<input type="checkbox"/>	<input type="checkbox"/>
MULTI COLOR DISPLAY	<input type="checkbox"/>	<input type="checkbox"/>
STEEL POWDER COATED DISPLAY		<input type="checkbox"/>
DIMENSIONS	350 x 100 x 180 mm	450 x 300 x 210 mm

## 08 OXYGENATION AND IONIZATION



- Chlorine free /Salt free water Sanitizer
- Implementing oxygen protection, copper ionization technology
- Sanitization through a propriety method of electrolysis whereby the water molecule is split to produce powerful oxidizers and secondary sanitation by releasing of copper ions into the water stream.
- Vastly reduce chemical costs-no chlorine / salt additions to water.
- No chemical / by products -major improvement to human health
- Easy maintenance -weekly check of PH and copper residual only
- 2 yearslimited warranty on electronics and oxygen plates
- Only consumable are: copper Ionization Electrodes-Life span of 12-24 months on average use.
- Free smart phone app detailing installation / maintenance and problem solving guide
- App featuring one touch service contact.

CODE	POWER	CAPACITY	FLOW RATE	MAX PRESSURE	CONSUMPTION	WEIGHT	VOLUME
		m <sup>3</sup>	m <sup>3</sup> /h	(Bar)	A	kg	m <sup>3</sup>
MK-75	220V	75	20	8	2.5	7	0.05
MK-150	220V	150	40	8	2.5	10	0.06
MK-250	220V	250	60	8	7	35	0.16
MK-500	220V	500	120	8	14	70	0.16
MK-750	220V	750	160	8	21	105	0.16
MK-1000	220V	1000	240	8	28	140	0.16

**MK7/CF1-75**

**FOR POOLS UP TO 75000 L**

63 mm electrodes chamber with 1 set of oxygen stack electrodes and 1 set of copper ionization electrodes



Digital Controller

OR



Touchscreen Controller

**MK7/CF1-150**

**FOR POOLS UP TO 150000 L**

90 mm electrodes chamber with 1 set of oxygen stack electrodes and 1 set of copper ionization electrodes



Digital Controller

OR



Touchscreen Controller

**MK7/CF1-250**

**FOR POOLS UP TO 250000 L**

3 x 90mm oxygen stack electrode chambers  
1 x 90mm double copper ionization electrode chamber



Digital Controller

Optional Touchscreen Controller



For Pools up to 250 000L

**MK7/CF1-500**

**FOR POOLS UP TO 500000 L**

6 x 90mm oxygen stack electrodes chambers  
2 x 90mm double copper ionization electrode chambers



Digital Controller

Optional Touchscreen Controller

**MK7/CF1-750**

**FOR S POOLS UP TO 750000 L**

9 x 90 mm oxygen stack electrode chambers  
3 x 90 mm double copper ionization electrode chambers



Optional Touchscreen Controller

Digital Controller

Digital Controller

**MK7/CF1-1000**

**FOR S POOLS UP TO 1 MILLION L**

12x90mm oxygen stack electrodes chambers  
4 x 90mm double copper ionization electrodes chambers



Digital Controller

Optional Touchscreen Controllers

## 09 COPPER IONIZER UV



- This revolutionary combination of UV-C and copper electrolysis in one disinfection system, minimizing the use of chlorine
- A built-in electronic ballast to ensure an efficient and stable 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 63mm to 50mm fittings, 1.5" female threaded

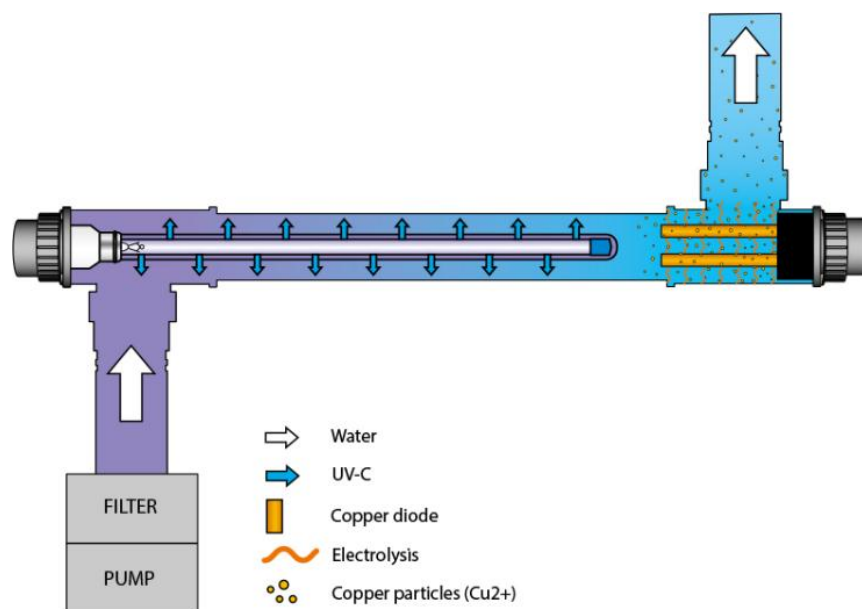


### OPERATION:

This revolutionary combination of UV-C and copper electrolysis means you can have a chlorine-free pool! With the Blue Lagoon Copper Ionizer UV-C 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 Blue Lagoon Copper Ionizer UV-C, 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 100%! Max. copper: 0,7 ppm. Connections: Ø63mm / 50mm / 1.5".



**WHAT IS THE DISINFECTION MECHANISM OF COPPER IONIZATION?**

Electrically charged copper ions( $Cu^{2+}$ )in the water search for particle of opposite polarity, such as bacteria, virus 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 result,bacteria are no longer able to multiply and eventually die. The ions remain active until they absorbed by a microorganism.



Please notice the correct grounding

CODE	UV-C-01	UV-C-02
TYPE	40,000/ 40 W	75,000/ 75 W
REC.FLOW FOR 30 MJ/CM2	11 m3/h	16 m3/h
MAX.PRESSURE	2	2
MAX.FLOW	23	23
DIAMETER UNIT	70 mm	70 mm
LENGTH UNIT	100 cm	100 cm
DIAMETER IN -OUTLET	63 mm/50 mm/1.5"	63 mm/50 mm/1.5"
STAINLESS STEEL	316 L	316 L
ELECTRONIC BALLAST	230V AC 50/60Hz	230V AC 50/60Hz
MAXIMUM CURRENT	0.29A	0.29A
LAMP POWER	40 W	75 W
LAMP	T5 40 W Ionizer	T5 75 W Ionizer
LIFESPAN LAMP	9.000 h	9.000 h
COPPER IONIZER	0.7 ppm	0.7 ppm
REPLACE LAMP ALERT	YES	YES
WEIGHT	5 KG	5.2 KG
PACKING VOLUME	0.042	0.042

# 10 AQUA COMPACT OZONE & UV-C



- This unit provides triple disinfection: ozone, OH radicals and UV-C!
- A built-in electronic ballast to ensure an efficient and stable power supply
- Up to 35% more UV-C yield as a result of reflection
- 100% effective and constant operation
- 316L Stainless steel housing
- The ozone UV-C lamp produces ozone for 4.500 hours and produces UV-C for 9.000 hours
- The device will indicate when the lamp needs replacing
- Easy installation and maintenance

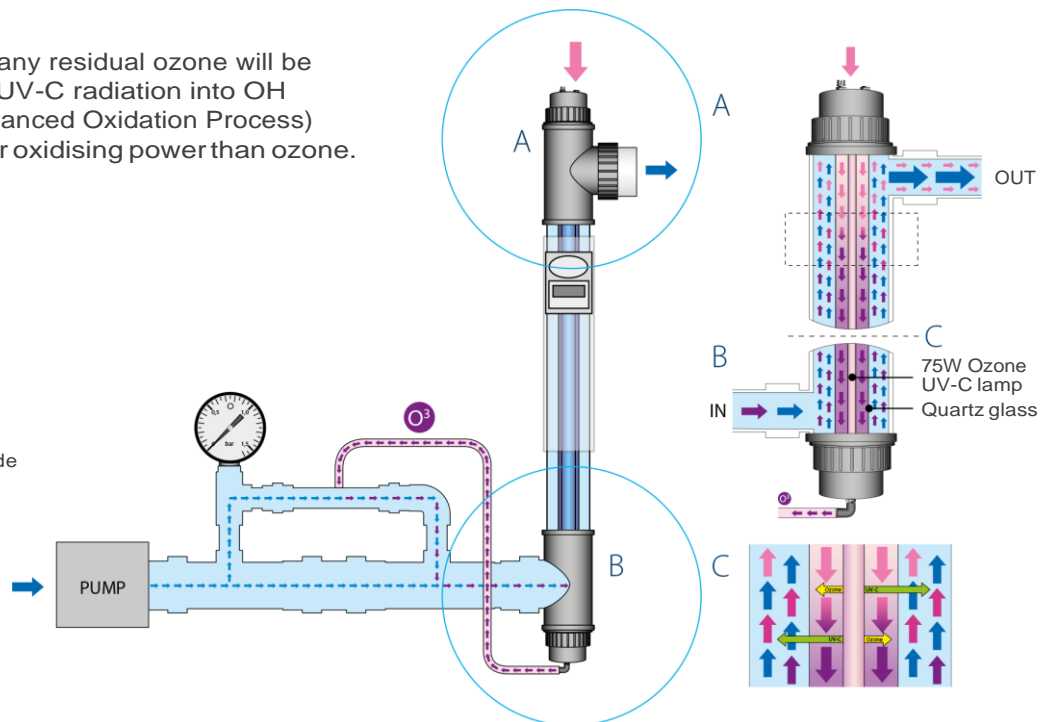


**OPERATION:**

This revolutionary combination of ozone and UV-C makes it possible to have a pool with minimal chloride usage. Through the supplied venturi, air is sucked in from the outside into the space between the UV-C lamp and the quartz sleeve. The special UV-C lamp generates radiation of both 254nm and 185nm. The 185nm radiation converts the available oxygen into ozone. The produced ozone (max. 0,6 g/h) is mixed with water through the venturi to perform its disinfecting/oxidising job.

Inside the UV-C housing, any residual ozone will be converted by the 254nm UV-C radiation into OH radicals (the so called Advanced Oxidation Process) that have an even stronger oxidising power than ozone.

- Air
- Water
- Air + ozone (O<sub>3</sub>)
- Air + ozone (O<sub>3</sub>) with hydrozide
- Ozone producing radiation
- UV-C



The lamp has a double function, producing ozone and UV-C light at the same time. The ozone in the water will be completely broken down by the UV-C light, because of this so called OH-radicals are being produced which have a high oxidation potential. This result in oxidation of the organic pollution in the water and the UV-C light will also disinfect the water at the same time.

**WHAT IS AOP?**

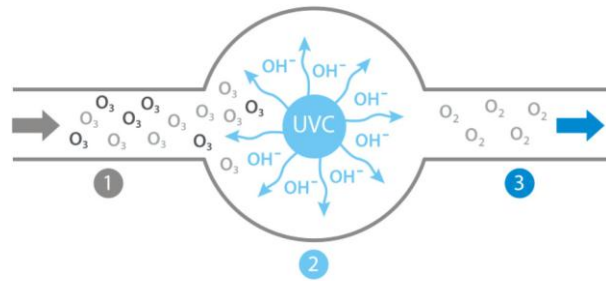
The Advanced Oxidation Process (AOP) combines the benefits of ozone and UV-C into one device. When ozone is used in combination with UV-C light in water, hydroxyl radicals (OH<sup>-</sup>) are created. These radicals are very effective in oxidizing the water and therefore reduction the organic pollution in the water, also chlorine disinfection by-products such as THM and chloramines are being reduced. The UV-C light not only disinfects the water very effectively (also chlorine resistant organism like Cryptosporidium and Giardia are being inactivated) but it also reduces the chloramines in the water. Because UV-C light will destroy the residual ozone in the water, there is no deozonation device needed. AOP is a very effective and efficient way of sanitizing and disinfecting your pool. As a result the amount of chlorine in a pool can be kept to a minimum.

**BENEFITS AOP:**

- Strong combination of ozone (oxidation) and UV-C (disinfection)
- Improves the disinfection efficiency
- Makes a pool with a minimal amount of chlorine possible
- Effective against chlorine-resistant microorganisms
- Prevents skin and eye irritation
- Can be quickly added to existing filtration



Please notice the correct grounding



CODE	UVC-03
TYPE	75.000/ 75 W
REC.FLOW FOR 30 MJ/CM2	18 m3/h
MAX.PRESSURE	2
MAX.FLOW	23
DIAMETER UNIT	70 mm
LENGTH UNIT	100 cm
DIAMETER IN -OUTLET	63 mm/50 mm/1.5"
STAINLESS STEEL	316 L
ELECTRONIC BALLAST	230V AC 50/60Hz
MAXIMUM CURRENT	0.57A
LAMP POWER	75 W
LAMP	VGE T5 75 W Ozone
LIFESPAN LAMP	4.500 HOURS OZONE - 9.000 HOURS UVC
OZONE	0.6 gr/h
REPLACE LAMP ALERT	YES
TIMER	YES
WEIGHT	6 KG
PACKING VOLUME	0.053

# 11 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

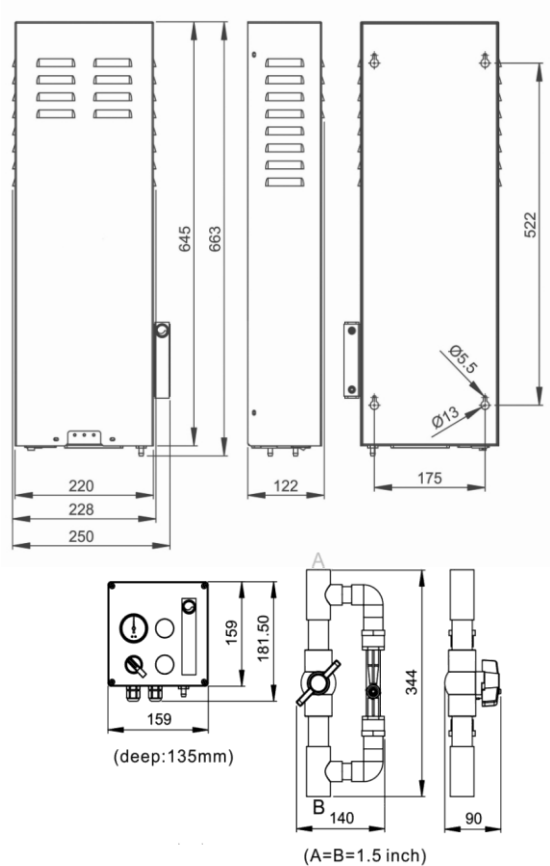


### DESIGN FEATURES

- 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

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



CODE	POP I	POP II
OZONE OUTPUT	2 g/hr	4 g/hr
MATCHED POOL VOLUME *	Upto 180 m <sup>3</sup>	Upto 360 m <sup>3</sup>
EQUIPPED GENERATOR QTY.	One	Two
VENTURI MANIFOLD CONNECTION SIZE	Inlet: 0.75"/ 25 mm Outlet: 0.75"/ 25 mm	Inlet: 0.75"/ 25 mm Outlet: 0.75"/ 25 mm
POWER REQUIREMENT ** (SINGLE PHASE)	120/240V 60/50Hz -550 W	120/240V 60/50Hz -650 W
OPTIONAL WATER BOOST PUMP REQUIREMENT	2 m <sup>3</sup> @ 30 m Head	2 m <sup>3</sup> @ 30 m Head
OPTIONAL ORP CONTROLLED	n/a	n/a
WEIGHT NET/GROSS	13/18 kg	22/32 kg
PACKING	1	1

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

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

# 12 AQUA OZONE EQUIPMENT “CT-10 & CTO-20”

The CTO-10 & CTO-20 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.

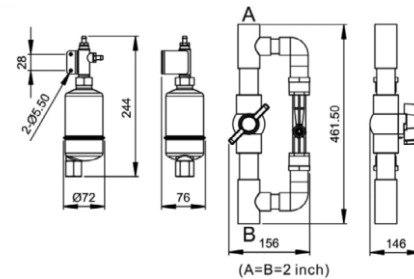
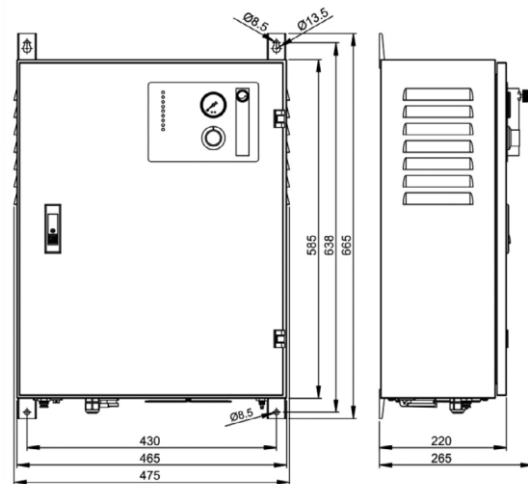
These packages are capable of producing ozone in 10g/hr & 20g/hr.

### 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	CTO-10	CTO-20
OZONE OUTPUT	10 g/hr	20 g/hr
MATCHED POOL VOLUME *	Upto 450 m <sup>3</sup>	Upto 900 m <sup>3</sup>
EQUIPPED COMPRESSOR QTY. (FLOW @ PRESSURE)	One (60 LPM @ 2 bar)	One (60 LPM @ 2 bar)
VENTURI MANIFOLD CONNECTION SIZE	Inlet & Outlet: 1"/ 32 mm	Inlet & Outlet: 1"/ 32 mm
POWER REQUIREMENT ** (SINGLE PHASE)	120/240V 60/50Hz -450 W	120/240V 60/50Hz -550 W
OPTIONAL WATER BOOST PUMP REQUIREMENT	2 m <sup>3</sup> @ 30 m Head	2 m <sup>3</sup> @ 30 m 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
PACKING	1	1

\* For indoor commercial pool with middle bather load & chlorine as secondary sanitizer only.

\*\* Not include water boost water pump's power consumption.

# 13 AQUA OZONE EQUIPMENT "POS"

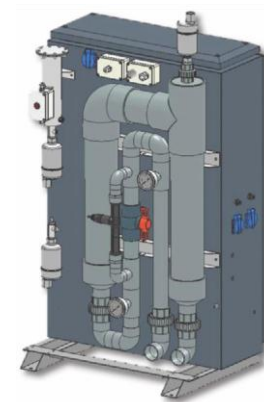
The POS series are turn-key, skid-mount, air-cooled, VUV or CD type ozone/water contacting systems specifically designed for swimming pool applications. The system incorporates complete VUV or CD type ozone generator, oil-less compressor(s), system operation & function indicating control panel, ozone 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

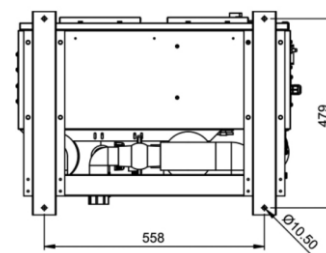
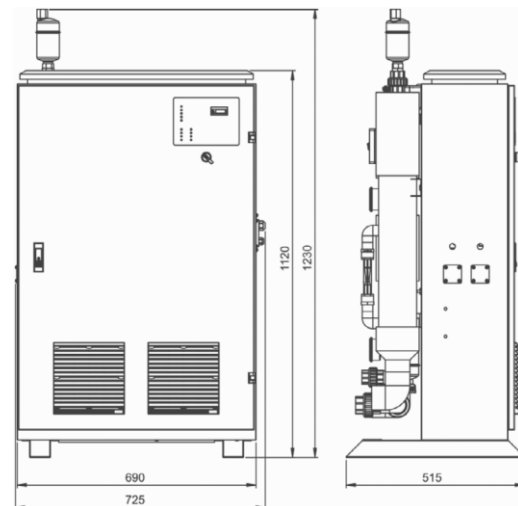
- Corona Discharge (CD) or Very UV (VUV) radiation
- Integrated PSA Module(s)
- Contacting Vessel Combined
- Degas & Auto Drain Valves
- Oil-less Compressor(s) Equipped
- Automatic Control
- Ozone Boost Pump Optional
- ORP Controller Optional
- Ozone Destructor Optional

## BENEFITS

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



UV-TYPE:

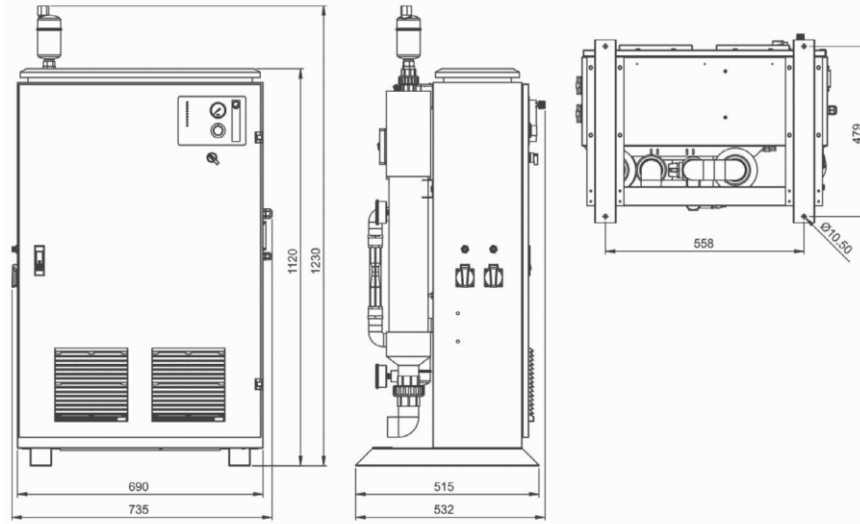


UV-TYPE:

CODE	POS-4UV	POS-6UV	POS-8UV
OZONE OUTPUT	4 g/hr	6 g/hr	8 g/hr
MATCHED POOL VOLUME *	Upto 360 m <sup>3</sup>	Upto 540 m <sup>3</sup>	Upto 720 m <sup>3</sup>
EQUIPPED COMPRESSOR QTY. (FLOW @ PRESSURE)	One (20 LPM @ 0.05 bar)	Two (20 LPM @ 0.05 bar)	Two (20 LPM @ 0.05 bar)
WATER CONNECTION SIZE	Inlet: 1.5"/ 50 mm Outlet: 1.5"/ 50 mm	Inlet: 1.5"/ 50 mm Outlet: 1.5"/ 50 mm	Inlet: 1.5"/ 50 mm Outlet: 1.5"/ 50 mm
POWER REQUIREMENT ** (SINGLE PHASE)	120/240V 60/50Hz -450 W	120/240V 60/50Hz -550 W	120/240V 60/50Hz -650 W
OPTIONAL WATER BOOST PUMP REQUIREMENT	2 m <sup>3</sup> @ 30 m Head	2 m <sup>3</sup> @ 30 m Head	2 m <sup>3</sup> @ 30 m Head
OPTIONAL ORP CONTROLLED	n/a	n/a	n/a
WEIGHT NET/GROSS	80/100 kg	80/100 kg	80/100 kg
PACKING	1	1	1

\* 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	10 g/hr	20 g/hr	30 g/hr	40 g/hr
MATCHED POOL VOLUME*	Upto 450 m <sup>3</sup>	Upto 900 m <sup>3</sup>	Upto 1350 m <sup>3</sup>	Upto 1800 m <sup>3</sup>
EQUIPPED COMPRESSOR QTY. (FLOW @ PRESSURE)	One (60 LPM @ 2 bar)	One (60 LPM @ 2 bar)	Two (120 LPM @ 2 bar)	Two (120 LPM @ 2 bar)
WATER CONNECTION SIZE	Inlet: 1.5"/ 50 mm Outlet: 1.5"/ 50 mm	Inlet: 1.5"/ 50 mm Outlet: 1.5"/ 50 mm	Inlet: 1.5"/ 50 mm Outlet: 1.5"/ 50 mm	Inlet: 1.5"/ 50 mm Outlet: 1.5"/ 50 mm
POWER REQUIREMENT** (SINGLE PHASE)	120/240V 60/50Hz -450 W	120/240V 60/50Hz -600 W	120/240V 60/50Hz -1050 W	120/240V 60/50Hz -1200 W
OPTIONAL WATER BOOST PUMP REQUIREMENT	2 m <sup>3</sup> @ 30 m Head	2 m <sup>3</sup> @ 30 m Head	2 m <sup>3</sup> @ 30 m Head	2 m <sup>3</sup> @ 30 m 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
PACKING	1	1	1	1

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

# 14 AQUA OZONE EQUIPMENT “ CTO 50, 100, 150, & 200”

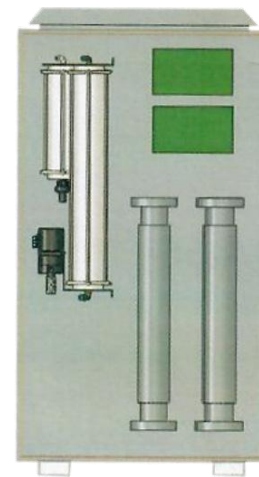
The CTO-30W, 40W & 60W are cabinet, water-cooled, corona discharge type ozone generators specifically designed for industrial applications. The system incorporates water-cooled quartz glass/stainless steel ozone cell, solid state high frequency power supplies, PSA oxygen concentration modules, manual adjusting & function indicating control panel, gray epoxy powder coated mild steel cabinet with mounting legs and with the main function of dozone ON/OFF, 4-20 ma remote controls & ozone safe interlock. These systems can be fed by customer supplied tank type oil-less compressor or multi small oil-less air compressor supplies by us. These models ozone generator produce ozone in 50g/hr, 100g/hr, 150g/hr & 200g/hr

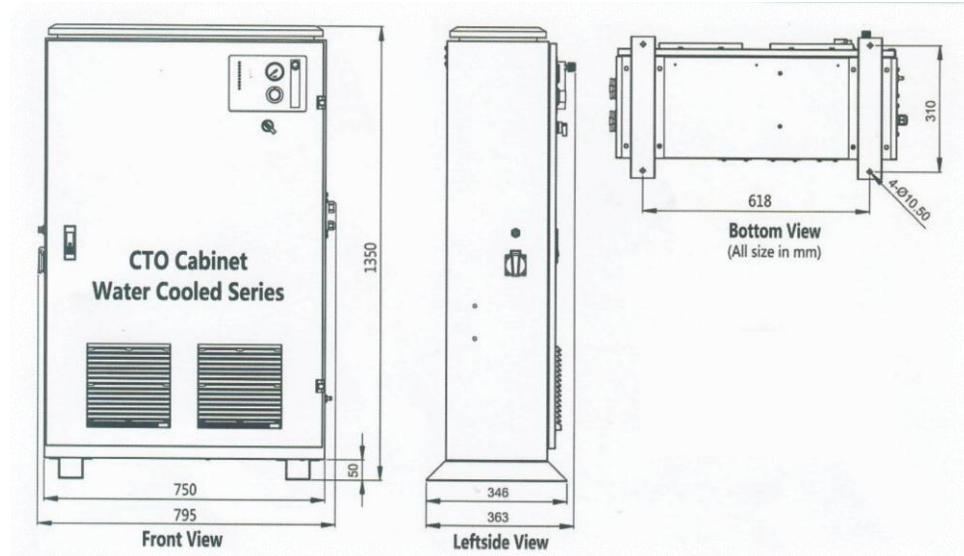
## DESIGN FEATURE

- Corona discharge (CD)
- Integrated PSA Module(s)
- Ozone ON/Off remote control
- 40-20ma Ozone remote control
- Modular design, water cooled
- Cabinet, floor mount
- Feed gas 3-in-1 Pneumatic device
- Anti water backflow solenoid valve optional

## BENEFITS

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





CODE	CTO-50 W	CTO-100 W	CTO-150 W	CTO-200 W
OZONE OUTPUT	50 g/hr	100 g/hr	150 g/hr	200 g/hr
OZONE OUTPUT FLOW	7.5L/min	10L/min	15L/min	20L/min
OZONE OUTPUT PRESSURE	0.4 bar (6 psi)	0.4 bar (6 psi)	0.4 bar (6 psi)	0.4 bar (6 psi)
COMPRESSED AIR REQUIREMENT (FLOW @ PRESSURE)	120 LPM @ 2 bar	120 LPM @ 2 bar	240 LPM @ 2 bar	240 LPM @ 2 bar
POWER REQUIREMENT (SINGLE PHASE )	120/240V 60/50Hz - 500 W	120/240V 60/50Hz -950 W	120/240V 60/50Hz -1450 W	120/240V 60/50Hz -1800 W
OZONE OUTPUT ON/OFF REMOTE CONTROL	Yes	Yes	Yes	Yes
OZONE OUTPUT 4-20MA REMOTE CONTROL	Yes	Yes	Yes	Yes

Note: \* Not include oil-less compressor's power consumption.

# 15 OZONE DESTRUCTOR

- The OD-3 is wall-mountable, thermal-catalytic method ozone destructor specifically designed for destruction of ozone oil-gas vent from contacting vessel. The unit incorporates stainless steel housing, high efficiency manganese/copper catalyst, silicon rubber heating band and fuse protected switch box with power cord. The featured micro-thermal heating design ensures water vapor does not condense on catalyst to extend catalyst service life. The unit is capable of destruction ozone gas up to 3 SCFM in 99.9% efficiency



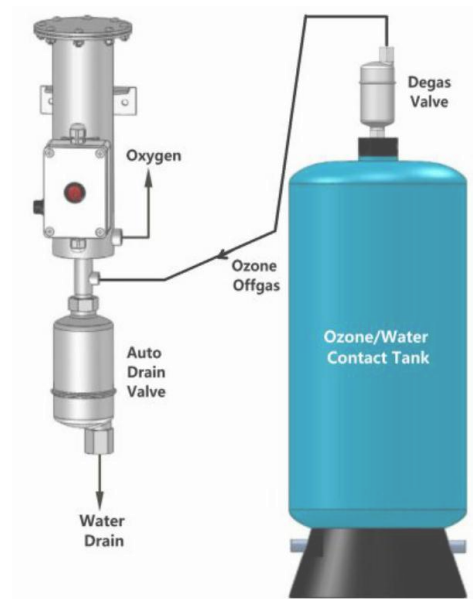
- Pressure drop: less than 1 PSI
- Destruct efficiency: 99.9%
- Power required: 25 watts, 120v/60Hz or 240/50Hz

**FEATURES**

- Catalyst reaction type
- Constructed of 304 stainless steel Integrated heater band
- Excellent ozone destruct efficiency
- Wall mountable

**APPLICATION**

- Catalyst reaction type
- Constructed of 304 stainless steel
- Integrated heater band
- Excellent ozone destruct efficiency
- Wall mountable



CODE	FLOW RATE	DIMENSIONS	WEIGHT	VOLUME
	m <sup>3</sup> /Hr		kg	
OD-3	5.1	105 X 325 X 150 mm	2.2	

# 16 OZONE MIXING DEGAS VESSEL

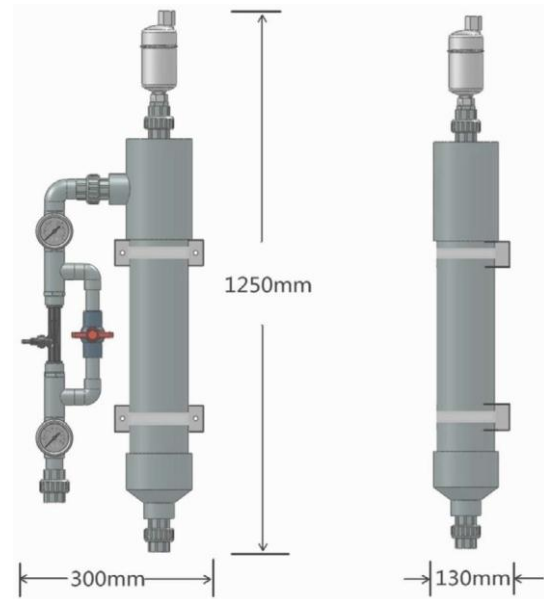
- The ozone mixing degas vessels (MDV) are designed in properly size and as simple as possible.
- The MDV-I & II are designed to supply a high mass transfer of ozone to the process water. An injector manifold incorporated into the vessel both draws the O<sub>3</sub> from the generators and mixes the O<sub>3</sub> into the water stream. The vessel then provides additional mixing, contact time, and degassing of excess ozone from the water prior to the point of use.
- The MDV series are in ozone/chlorine compatible PVC plastic construction and incorporate with venturi injector, bypass valve, pressure gauges, SS degassing valve and SS wall mount brackets.

### DESIGN FEATURE:

- High mass transfer
- Enhancing contact time
- Degassing excess ozone
- Pressure gauges equipped
- Ozone/chlorine compatible
- Wall mountable

### APPLICATION:

- Swimming pool
- Water feature & park
- Aquarium & aqua animal
- Bottled water plant
- CIP cleaning
- Dairy farm
- Process water treatment



CODE	FLOW RATE	SUCTION FLOW	CONNECTION SIZE	TEMPERATURE	WEIGHT	VOLUME
	m <sup>3</sup> /H	m <sup>3</sup> /H	mm	max	kg	
MDV-1	1.5-3.0	0.9	25/32	45°C	13.5	
MDV-11	3.0-5.0	1.5	32/40	45°C	13.5	