



Chlorine-free technology for a healthy pools

private pools

public pools

private whirlpools

public whirlpools

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Haven't you received your catalog?

Just scan the QR code and have it sent to your email.

For more than 25 years, we've been helping our customers to enjoy a healthy swimming pool

We are an innovative and technological company from the heart of Europe. We have been helping our customers swim in a healthy pool for over 25 years. Nature is our greatest mentor. We harness its natural power inside our products for the most effective water Treatment today's technology can offer.

A pool equipped with our technology isn't just healthier; it is also up to 40% cheaper to maintain. To accomplish this mission, we design, develop, and manufacture the technology of ozone, UV, and their combination AOP. We train our distributors and partners to install, and reliably maintain these solutions. The synergy of UV and ozone represents

the latest and most efficient water disinfection technology available. This new and highly efficient technology is known as AOP, or Advanced Oxidation Process.

You can find our technology in thousands of residential pools, hundreds of hotel pools, and dozens of water parks worldwide.



Why work with us?

FROMUS, YOU GET THE BEST SUPPORT

We understand that non-chlorine water disinfection technologies are still in their infancy. Therefore, we have developed a system to facilitate our partner a smooth entry into this field.

- You will receive clear and practical product and service training from us.
- · You will receive ready-made marketing materials that you can take under your logo.
- We will support you quickly and reliably. We also keep all spare parts in stock.

YOU CAN RELY ON OUR PRODUCTS

We know our products, therefore we can afford to give you the best product warranty on the market. Ask our sales team about the details.

Our confidence is based on our key strength, that is practical design and production craftsmanship.

FROMUS, YOU GET UNIQUE PRODUCT FEATURES

We can offer you several product features that are unique on the market. Among these features:

- LifeAGE technology prolongs lifespan of UV lamps by up to 125%.
- LifeAGE technology saves up to 50% of energy costs.
- LifeKEY is a unique technology that guarantees equipment reliability.

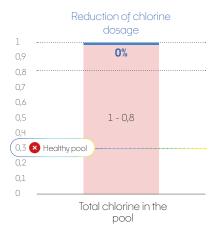
Interested in working with us? Great! Then do not hesitate to contact us on becomeapartner@lifetechozone.com our sales team will be happy to assist you.



Health risks in swimming pools and their prevention

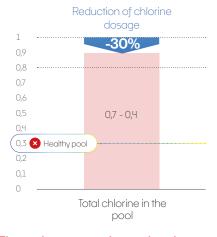
Health risk CHLORINATION ONLY

Health risk COMMON UV-C LIGHTS



Swimming pool with high concentrations with trichloramines, NOT a healthy pool

The chemical compound trichloramine (Part of combined chlorine) becomes carcinogenic at high concentrations and can trigger asthma, allergies, skin irritation and dryness, and eye irritation. It is the compound behind the typical "chlorine" smell associated with swimming pools. In essence, a pool with a strong chlorine smell indicates high levels of bound chlorine and is NOT healthy. Additionally, trichloramine contributes to the corrosion of materials within swimming pools and indoor pool structures. Pools on chlorination and filtration only do are prone to chlorine-resistant bacteria such as Pseudomonas aeruginosa, Legionel-Ia, Mycobacterium avium, and Cryptosporidium. These bacteria can withstand typical chlorine concentrations found in pools and can cause severe or even deadly ilnesses. The parasite giardia lamblia – causes severe diarrhoea



These lamps are based on lowpressure UV light bulbs with single wavelength of UV. These lamps do NOT remove the harmful trichloramine!

That harsh "chlorine pool" smell? It's actually trichloramine, a chemical compound of bound chlorine that is carcinogenic at higher concentrations and linked to asthma, skin irritation, and even damage to pool equipment. The concentration of disinfecting chlorine can be reduced to 0.5 mg/l. The concentration of disinfecting chlorine is 0.7-1 mg/l. Chlorine dosage 100%





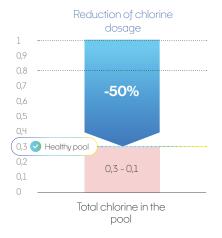
Technologie LifeOX® M

Healthy pool

MEDIUM PRESSURE UV

Healthy pool

AOP



Reduction of chlorine dosage 0,9 0,8 -90% 0,4 0,3 🕢 Healthy pool Total chlorine in the

Get a healthy swimming pool, removes the harmful Trichloramine

Ensure healthy water and a pleasant environment with UV systems featuring medium-pressure UV lamps, which simultaneously disinfect water and remove harmful Trichloramine. Standard low-pressure UV lamps cannot achieve this, which is why the German standard DIN 19643 for public swimming pool water treatment mandates the use of UV systems with medium-pressure lamps. This advanced technology, previously exclusive to public pools, is now available for private pools. It also allows for the reduction of disinfecting chlorine concentration to 0.3 mg/l.

Most powerful technology avaiable. Get a healthy swimming pool, removes harmful Trichloramine and its source. Reduce TOC (Total organic carbon)

The pool water attains the quality of drinking water, creating a healthy and pleasant environment suitable even for toddlers, asthmatics, and allergy sufferers. It is free from harmful Trichloramine and organic TOC (Total Organic Carbon) contaminants. The concentration of disinfecting chlorine can be reduced to 0.1-0.2 mg/l. This results in a radical reduction of operating costs and the fastest return on investment.

What is a healthy pool? Chemical-free technology. Minimizing the chemicals in the water plus reduction of monthly costs.

TRICHLORAMINE = TOXIC SUBSTANCE

Trichloramine forms when chlorine reacts with nitrogen-containing substances such as sweat, body oils, and urine from swimmers.

REDUCING RISKS TO HEALTH

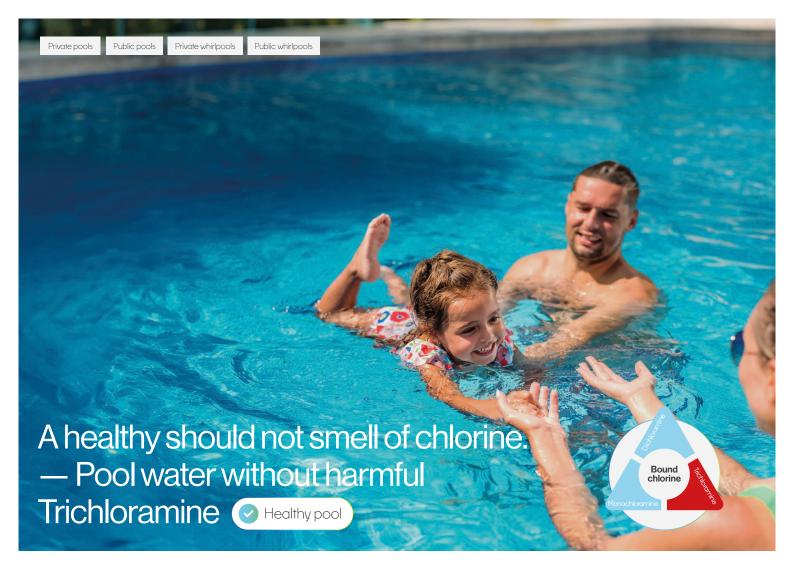
- Eye irritation
- Coughing and difficulty breathing
- Irritation and disruption of the epithelium of the upper respiratory tract
- Has been shown to contribute to the development of asthma and allergies
- Causes allergic reactions in sensitive individuals

SKINCARE TECHNOLOGY

Prolonged exposure to trichloramine causes skin irritation and dryness, leading to premature aging.

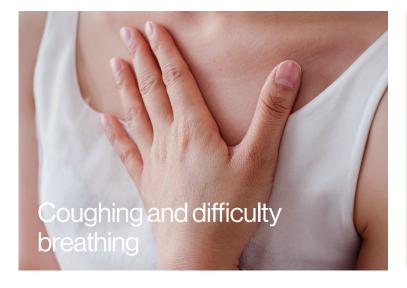
LESS CHLORINE = SAVED COSTS

Reducing chemical consumption positively affects your monthly pool expenses





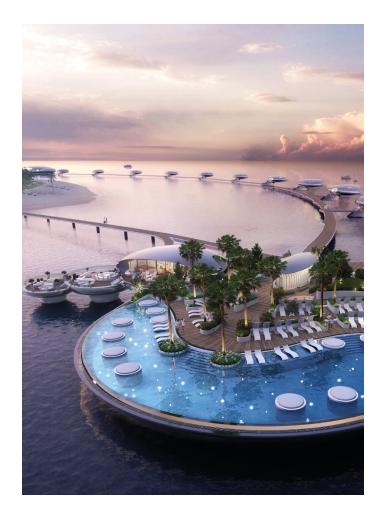






3 426 pools enjoy healthy water with our equipment. 2 134 sites with solved water issues. 25 years of experience. Wherever there is Lifetech, there's a healthy pool.





Sheybarah Island - Red Sea Global, Kingdom of Saudi Arabia

Lifetech supplied 38 medium pressure UV (UVM) Systems for the Sheybarah Island project (Part of Red See Global). In Red Sea Global (RSG), the convergence of luxury, sustainability, and innovation redefines the approach to development. The organization leads the way in pioneering new development and tourism models, with a primary focus on prioritizing the well-being of both people and the planet. Their projects are designed to actively contribute to enhancing the well-being of customers, communities, and environments alike. RSG is a cornerstone of Saudi Vision 2030, the most ambitious transformative investment and development project of our time.



Lifetech technology in the Skjaak Swimming Pool - Norway

The installation of both the bypass for the ozone reaction/degassing tank and the medium pressure UV reactor in the mainstream was done very fast in the first day.

All the new equipment was very easy to fit to existing system. We mounted the LifeUVM0135WM medium pressure UV reactor on the optional reactor stand and the Control and power supply unit on an existing stand. The Lifepool 4.0 ozone generator and the Lifox 4.0 oxygen generator were mounted on the wall, the ozone reaction/degassing tank was floor mounted.

Installation of the LifeOX $^{\scriptsize (0)}$ technology from LIFETECH s.r.o. made possible to reach our goal, i.e. to reduce the chlorine content in the pool water.

The level of free chlorine is now kept at 0.2 ppm, thus, being reduced by close to 70 %. The combined chlorine content is as low as 0.05 ppm only. The strong smell of chlorine in the swimming pool is gone and the ambient air is much healthier. The pH level is very stabile in the neutral range of pH 7.00-7.15. At these conditions, we have not found any trace of bacterial growth.



TA'AKTANA, a Luxury Collection Resort & Spa, Labuan Bajo, Indonesia

Lifetech supplied 4 medium pressure UV Systems for the hydrotherapy pools within the Wet Spa facility. This luxury hotel is a symbol of quality and high standard. Supplied by our partner SINAR TEKNIK, Medan/Indonesia

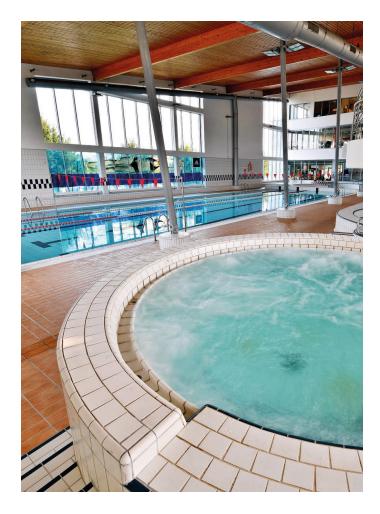


Singapore Zoo is dedicated to the highest standards of animal care and conservation

Mandai Wildlife Reserve at Mandai in Singapore includes the Singapore Zoo, Night Safari, River Wonders, Bird Paradise and Rainforest Wild. This zoo has reputation as one of the best in the world and its well deserved. Mandai Reserve is a vast area with wild nature, home to 560 animal species, the number of animals is about 15,000. Singapore Zoo is dedicated to the highest standards of animal care and conservation, with a team of passionate wildlife professionals that look after all aspects of caring for the living collection.

It systematically introduces innovative technologies and sustainable practices, such as the use of renewable energy or the minimization of waste. This category also includes reducing water consumption, which our technology can repeatedly clean, treat and disinfect. We are really proud that our UV systems and LifeOX®-M technology have been chosen for such a prestigious Wildlife Reserve. We treat the water in 21 circuits, including pools for hippos, crocodiles, primates, otters, a pond for birds, etc.





AquaDream Aquapark Barrandov - Prague

In February 2024, the original 4 medium-pressure UV systems were replaced by our TOP medium-pressure UV systems with unique LifeAGE® technology, which extends the life of medium-pressure lamps by more than 100% and simultaneously reduces operating costs by 20 to 30%. We are very pleased with the information that the hygiene authority staff measuring the water quality in Barrand-ov Aquapark could not believe that after replacing the original UV systems, there was such a radical improvement in water and air quality.



The most modern polish Water Park Fabryka Wody uses LIFETECH technology

Twenty-six medium-pressure TOP UV systems with LifeAGE® technology were installed in the Fabryka Wody water park in Szczecin, Poland. The systems have a total capacity of almost 4,000 cubic meters of pool water per hour, and in addition to the perfect disinfection of the pool water, harmful trichloramines will also be removed. These are harmful to human health, causing the typical pool smell, asthma, red eyes, burning of the skin and corrosion of the halls. The environmentally friendly LifeAGE® technology is able to effectively eliminate these substances and at the same time minimize operating costs. The systems were commissioned in the second week of January 2024.

In addition to water fun, Fabryka Wody will also offer an educational section focused on water as a life-giving fluid from the point of view of the school curriculum of natural history, physics, chemistry and biology. The aim of this part of the water park is to contribute to the protection of the environment and natural resources in the form of education.

LIFETECH is proud that the LifeAGE® technology it developed was chosen for such a prestigious project. It is proof not only of its efficiency and reliability, but also of the growing emphasis on the need for energy savings and environmental protection.



Lifetech technology in Zuri Zanzibar

LIFETECH is proud that the design and supply of ozone, UV and LifeOX®M technologies for the treatment of drinking, waste and pool water contributed to the fact that the unique ZURI Zanzibar resort was the first in the world to be awarded the gold EarthCheck certification for sustainable design.

LIFETECH has always designed environment-friendly technologies. They were invited by their long-term business partner, VTI, to design ozone and UV technology for all water and waste management of the newly built ZURI Zanzibar hotel resort in 2015. The aim was to use environmentally clean technologies for water treatment and to make the most of waste water recycling. In cooperation with VTI, LIFETECH designed and supplied technologies for the treatment of drinking, pool and waste water.

Water from boreholes undergoes mechanical and membrane filtration and subsequently enters two storage tanks. Each of them is 160 m3 in size. Drinking wateris disinfected with ozone. No chlorine is used for disinfection. Therefore, resort visitors drink tasty healthy water without a drop of chlorine. The supply also included a bottling plant enabling drinking water to be filled into glass bottles.

The LifeOX®M advanced oxidation technology treats water in all pools. It is the most efficient technology for pool water treatment. This technology includes the LifeUVM® medium-pressure systems with unique LifeAGE® technology to extend the life of medium-pressure UV lamps. The water of all whirlpools is treated using the Combi Ozone/UV system. It is a combined technology of ozone and low-pressure LifeUVL systems.

The maximum use of the produced water is achieved by disinfecting the water flowing out of the biological wastewater treatment plant using the advanced Combi Ozone/UV oxidation technology. The treated water is used for watering and also as a water source for the fire reservoir.

Our exclusive LifeOX®M and LifeAGE® technologies reduce the carbon footprint significantly compared to standard ozone and UV technologies. Additionally, these technologies bring competitive advantages to you and your clients. LifeOX®M is the most efficient technology for reducing and preventing the formation of harmful trichloramine in the pool water.



Aquapalace Prague Cestlice - The largest water park in the Czech Republic

We are proud that our best LifeOX®-M pool water treatment technology has been improving the quality of pool water and air since February 2024 even in the largest Czech water park Aquapalace Praha in Cestlice. We believe that our LifeOX®-M technology will also prove its qualities while reducing operating costs.





Olympic swimming pool in Taldykorgan - Kazakhstan

A modern swimming pool complex in Taldykorgan, the administrative capital of the Jetisu Region, Kazakhstan. This unique project in Central Asia, was opened in the year 2021. Its uniqueness lies in the fact that it meets Olympic standards. Another feature is the external architectural appearance, reminiscent of the silhouette of a huge fish swimming in the depths of the sea. The complex has three swimming pools, the largest of which is 52 meters long and 25 meters wide. Total water flow of all three pools is almost 1000 m3/h and is treated by Lifetech AOP(Advanced Oxidation Process) technology LifeOX®-M.





UV sensor







	· ·				
	ProfiPure	ProfiTiny	Charm	LifeOX® M	
Expected life of UV lamp	pected life of 5 000 hours 5 1		10 000 hours	10 000 hours	
Technology (Series)	Medium-pressure UV	Medium-pressure UV	Medium-pressure UV	AOP (Advanced Oxidation Process)	
Salt water	Yes	Yes	Yes	Yes	
Skincare technology (remove trichloramin)	Yes	Yes	Yes	Yes	
Max pool private volume	294 m³	294 m³	252 m³	1500 m³	
Max flow rate Private pools and whirlpools UV dose 30 mJ/cm²)	ols 49 m³/h 49 m³/h 42 m³/h		42 m³/h	250 m³/h /1 unit	
Aplication	Interier pools, Exterier pools, Whirpools	Interier pools, Exterier pools, Whirpools	Interier pools, Exterier pools, Whirpools	Interier pools, Exterier pools, Whirpools	
「OC reduction	-	-	-	Yes	
Power supply	Magnetic power supply	Magnetic power supply	Advanced electronic power supply (LifeAGE® technology)	Advanced electronic power supply (LifeAGE® technology)	
	Professor Or	Professor MV	Cham		
Connection	1 ½"-3"	2"-3"	2"-3"	2" – DN 250 (flange)	
Total power input of UV lamps	0.25 - 0.8 kW	0.4 - 0.8 kW	0.4 -0.6 kW	1.8- 9.0 kW	
	Without wiper	Without wiper	Without wiper	Without wiper	
Viper	tech	tech			
	Manual wiper	Manual wiper	Manual wiper	Without wiper	
		Oldreco	O Uterson		
	Automatic wiper	Automatic wiper	Automatic wiper	Automatic wiper	
5ensor	Temperature	Temperature	Temperature sensor	Temperature sensor UV sensor Modbus connection TS touch display	

UV sensor

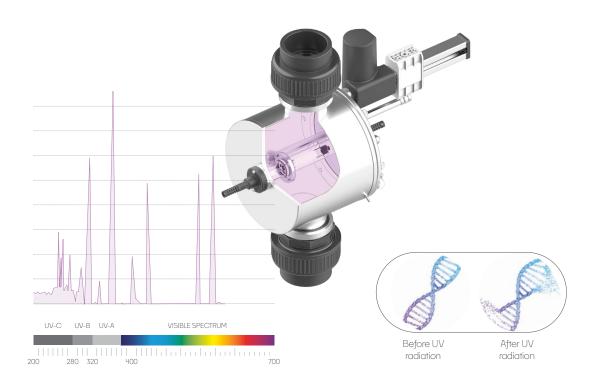
Seeking a public pool solution? Please refer to page 30.

UV sensor



Medium-pressure UV technology — reduces pool chemicals, saves money

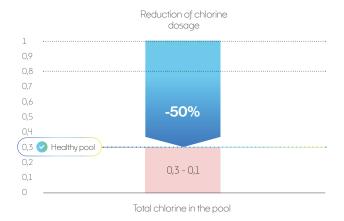
Medium-pressure UV lamps operate on the broad-spectrum radiation principle, spanning from 200 to 600 nm. This broad range of wavelengths enhances their effectiveness by increasing the number of pathogens they can target. Furthermore, this broad-spectrum UV radiation permanently disrupts the DNA of microorganisms, preventing any possibility of DNA repair and reactivation.







Fast ROI (Return On Investament) » Chlorine Reduction 50%

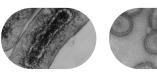


German standard for pools (DIN 19643)



Medium-pressure UVM systems are the only UV systems that reduce the value of bound chlorine in the pool - anchored in the German standard for pools. (DIN 19643)

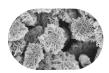
UV radiation eliminates the DNA of microorganisms permanently



BACTERIA

VIRUSES DESTRUCTION

REMOVES TRICHLORAMINES







AI GAE

PATHOGENS

PREVENTS COLLAPSE OFTHEHALL

ProfiPure Smallest medium Pressure UV you can get

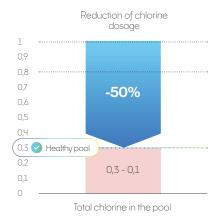
Private pools: up to 49 m³/h

Permanent chlorine-free disinfection and elimination of unhealthy trichloramine in one compact system. Healthy pool technology. The first skincare UVM technology on the market,

which prevents aging of the skin. Minimizing the chemicals in the water plus reduction of monthly costs.



Expected life of UV lamp	5,000 hours		
Technology (Series)	Medium-press	ure UV systems (200–600 nm)
Application	Interier pools	Exterier pools	Whirpools
Salt water	Yes		
Max pool volume	294 m³		
Max flow rate (UV dose 30 mJ/cm²)	49 m³/h		
Power supply	Magnetic powe	er supply	
Connection	1 ½"-3"		
Total power input of UV lamps	0,25 - 0,8 kW		
Wiper	Without wiper		
Material	Stainless-steel	reactor 316L (Sa	lt water resistant)
Sensor	Temperature		
Optional	UV sensor		



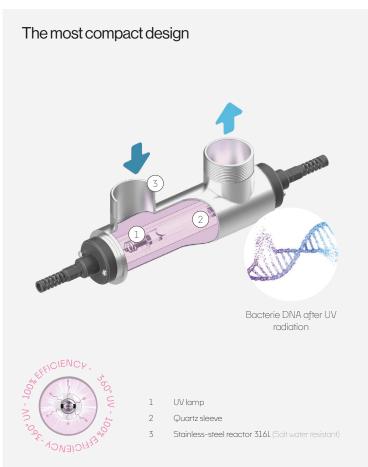


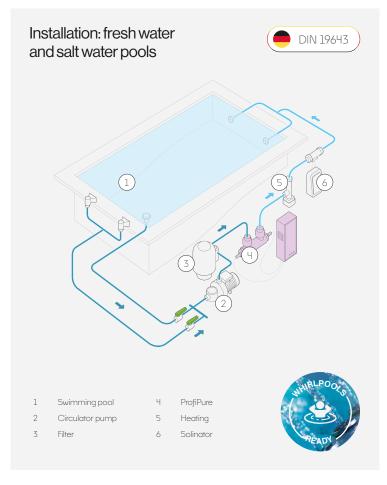












Models

Without wiper (NW)	Manual wiper (MW)	Automatic wiper (AW)	Connection	Max volume (m³) Private pools and whirlpools	Max flow rate (m³/h) Private pools and whirlpools (UV dose 30 mJ/cm²)	Total power input of UV lamps (kW) / phase
ProfiPure 100	-	-	1 ½"	72	12	0.25 / I
ProfiPure 200	-	-	2"	84	14	0.25 / I
ProfiPure 18	-	-	2"	106	18	0.25 / I
ProfiPure 30	-	-	3"	180	30	0.40 / I
ProfiPure 49	-	=	3″	294	49	0.80 / I

ProfiTiny Medium Pressure UV with wiper

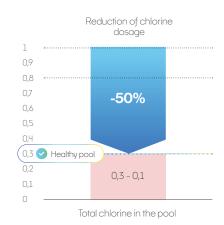
Private pools: up to 49 m³/h

Permanent chlorine-free disinfection and elimination of unhealthy trichloramine in one compact system. Healthy pool technology. The first skincare UVM technology on the market, which prevents aging of the skin. Minimizing the chemicals

in the water plus reduction of monthly costs. Manual wiper is easy way to clean the surface of the quartz sleeves periodically to prevent energy losses and water treatment reduction.



Expected life of UV lamp	5,000 hours
Technology (Series)	Medium-pressure UV systems (200–600 nm)
Application	Interier pools Exterier pools Whirpools
Salt water	Yes
Max pool volume	up to 294 m³
Max flow rate (UV dose 30 mJ/cm²)	up to 49 m³/h
Power supply	Magnetic power supply
Connection	2'''-3"
Total power input of UV lamps	0,4 - 0,8 kW
Wiper	Without wiper, Manual wiper
Material	Stainless-steel reactor 316L (Salt water resistant)
Sensor	Temperature
Optional	UV sensor

















Models

Without wiper (NW)	Manual wiper (MW)	Automatic wiper (AW)	Connection	Max volume (m ⁵) Private pools and whirlpools	Max flow rate (m ⁵ /h) Private pools and whirlpools (UV dose 30 mJ/cm²)	Total power input of UV lamps (kW) / phase
LifeUVM0104-13-NW-MP-LE	LifeUVM0104-13-MW-MP-LE	-	2"	110	18	0.4 / I
LifeUVM0104-25-NW-MP-LE	LifeUVM0104-25-MW-MP-LE	-	3"	230	38	0.4 / I
LifeUVM0204-25-NW-MP-LE	LifeUVM0204-25-MW-MP-LE	-	3"	294	49	0.8 / I

Charm Fully automatic Medium Pressure UV

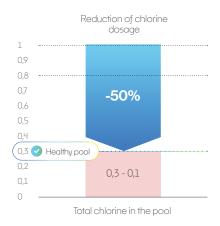
Private pools: up to 42 m³/h

Permanent chlorine-free disinfection and elimination of unhealthy trichloramine in one compact system. Healthy pool technology. The first skincare UVM technology on the market, which prevents aging of the skin. Minimizing the chemicals in the water plus reduction of monthly costs. The unique

LifeAGE® technology will reduce operating costs by up to 25% compared to standard UVM systems. Reduction of chlorine dose by up to 50%. Automatic wiper is best way to clean the surface of the quartz sleeves periodically to prevent UV dose losses and water treatment reduction.



Expected life of UV lamp	10,000 hours
Technology (Series)	Medium-pressure UV systems (200–600 nm)
Application	Interier pools Exterier pools Whirpools
Salt water	Yes
Max pool volume	up to 294 m³
Max flow rate (UV dose 30 mJ/cm²)	up to 49 m³/h
Power supply	Advanced electronic power supply (LifeAGE® technology)
Connection	2""-3"
Total power input of UV lamps	0.4 -0.6 kW
Wiper	Manual wiper, Automatic wiper
Material	Stainless-steel reactor 316L (Salt water resistant)
Sensor	Temperature
Optional	UV sensor

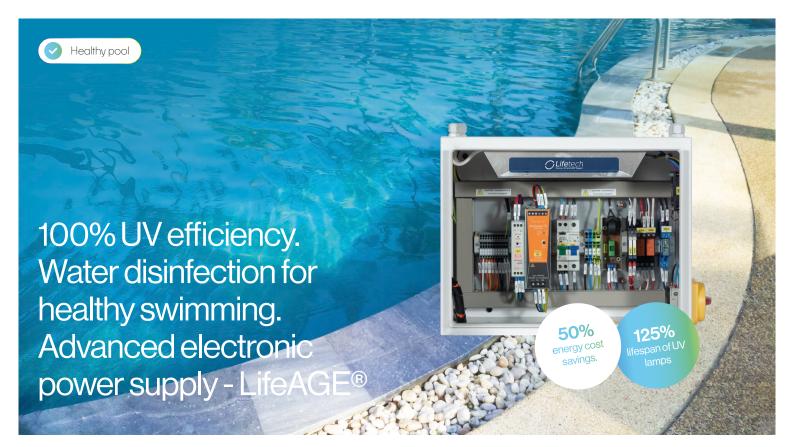




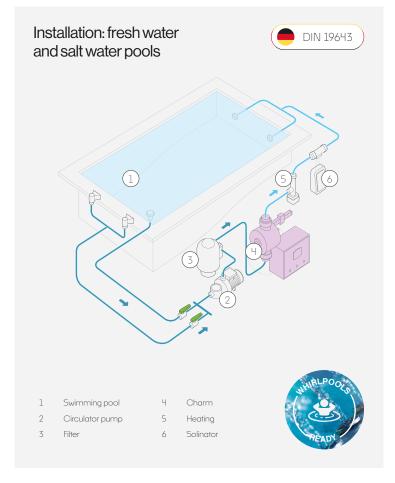












Models

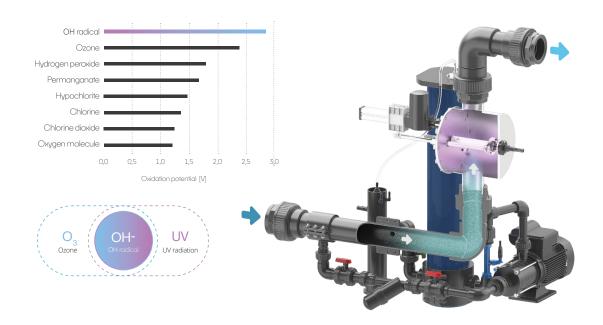
Without wiper (NW)	Manual wiper (MW)	Automatic wiper (AW)	Connection	Max volume (m³) Private pools and whirlpools	Max flow rate (m³/h) Private pools and whirlpools (UV dose 30 mJ/cm²)	Total power input of UV lamps (kW) / phase
-	LifeUVM0104-13-MW-AEP-LD	LifeUVM0104-13-AW-AEP-LD	2"	110	18	0.4 / I
-	LifeUVM0104-25-MW-AEP-LD	LifeUVM0104-25-AW-AEP-LD	3"	230	38	0.4 / I
-	LifeUVM0106-25-MW-AEP-LD	LifeUVM0106-25-AW-AEP-LD	3"	252	42	0.6 / I

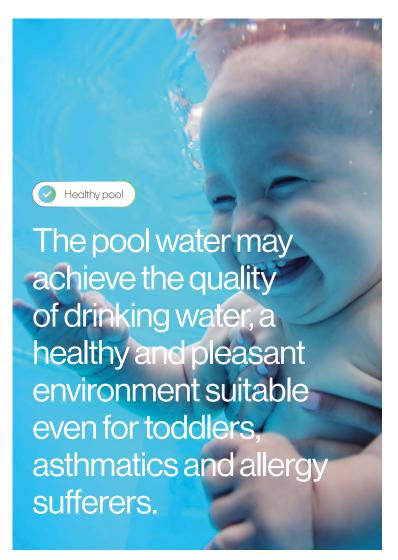
AOP (Advanced **Oxidation Process**) reduces pool chemicals, saves money

The high oxidation potential of ozone can be significantly increased by combining it with UV radiation. This method is known as advanced oxidation or UV oxidation. LIFETECH has developed its own LifeOX® technology based on optimised synergy between ozone and UV radiation.

The advanced oxidation process (AOP) is today's best water treatment technology. AOP is based on the formation of OHradicals in the water. These OH-radicals

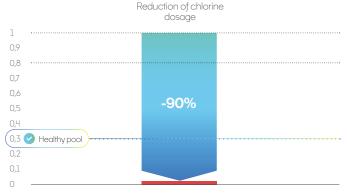
have considerably higher oxidation potential compared to other water treatment oxidants. This means that OH-radicals (i.e., AOP technology) are able to oxidise particles in water much faster and more efficiently. The comparison can be found in the chart above. OH-radicals have a higher oxidation potential than hydrogen peroxide or ozone. The higher the oxidation potential, the more effective the water disinfection and purification.







Healthy pool Fastest ROI (Return On Investment) » Chlorine Reduction 90%



Total chlorine in the pool

The higher the oxidation potential, the more effective the water disinfection and purification.



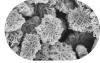
BACTERIA DESTRUCTION



VIRUSES DESTRUCTION



IRON AND MANGANISE OXIDATION



DESTRUCTION





PATHOGENS DESTRUCTION



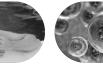
CONTAMINANTS **DESTRUCTION**



REMOVES TRICHLORAMINES



REMOVES TASTE ANDODOR



REMOVES ORGANIC POLLUTANT TOC (TOTAL ORGANIC CARBON)



ORGANIC POLLUTANTS (BTEX. POPS.AOX.ETC.) DESTRUCTION



PREVENTS COLLAPSE **OFTHEHALL**

LifeOX® M The best technology money can get

Private pools: up to 250 m³/h

Disinfection & Prevention of the Formation of Unhealthy Trichloramine & TOC Reduction in One Compact System = the Most Effective Pool Water Treatment Technology with the Fastest Return on Investment. Trichloramine causes: asthma, pool odor, red eyes, drying and burning of the skin, corrosion. TOC - the total amount of organic substances contaminating the water. Reducing TOC increases the amount of recyclable washing water after washing the filters = saving water and energy.





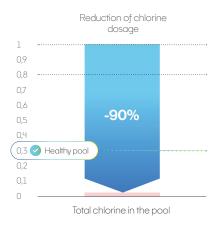




985x847x1202 mm

1,110x857x1,472 mm

Technology	AOP (Advanced Oxidation Process)			
Application	Interier pools Exterier pools Whirpools			
Max pool volume	up to 1500 m³			
Max flow rate	up to 250 m³/h / 1 unit			
Ozone generation	Air dryer Oxygen concentrator			
Ozone generation technology	Corona discharge			
AOP technology	Ozone + UV			
UV lamp type	LifeUVM®			
Power control	10-100%			
Installation	Plug & Play			
Connection system	In pipes (in-line) In by-pass			
Input power (kW)	1.8- 9.0			





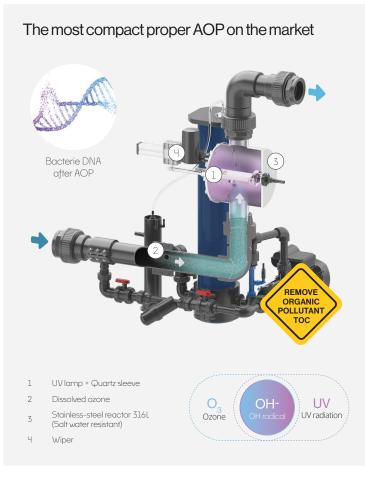
Online animation about LifeOX® M®

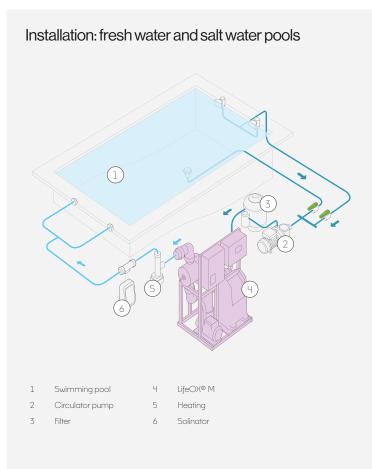












Modely

Model	Ozone generation	Max pool volume Private pool (m³)	Connection	Max flow rate Private pools (m³/h)	Input power (kW)	Dimensions (mm)	Weight (kg)
LifeOX® M10.EP	Air dryer	60	2"	10	1.8	985x847x1,202	100
LifeOX® M20.EP	Air dryer	120	2"	20	2.0	985x847x1,202	100
LifeOX® M40.EP	Oxygen concentrator	240	3"	40	2.5	1,110x857x1,472	140
LifeOX® M90.EP	Oxygen concentrator	540	DN 125 (flange)	90	3.9	1,300x1,300x2,000	250
LifeOX® M140.EP	Oxygen concentrator	840	DN 150 (flange)	140	5.9	1,300x1,300x2,000	250
LifeOX® M250.EP	Oxygen concentrator	1500	DN 250 (flange)	250	9.0	1,500x1,300x2,000	280

Public pools without compromise

AOP reduces chemical consumption and costs.
AOP create a healthy pool, where higher visitor attendance makes the difference.









	ProfiPure	ProfiTiny	Charm	Clear	Тор	LifeOX® M
Expected life of UV lamp	5 000 hours	5 000 hours	10 000 hours	8 000 hours	18 000 hours	10 000 hours
Technology (Series)	Medium-pressure UV	Medium-pressure UV	Medium-pressure UV	Medium-pressure UV	Medium-pressure UV	AOP (Advanced Oxidation Process)
Salt water	Yes	Yes	Yes	Yes	Yes	Yes
Skincare technology (remove trichloramin)	Yes	Yes	Yes	Yes	Yes	Yes
Max flow rate Public pools and whirlpools (UV dose 60 mJ/cm²)	30 m³/h	44 m³/h	33 m³/h	616 m³/h	910 m³/h	250 m³/h /1 unit *
Aplication	Interier pools, Exterier pools , Whirpools	Interier pools, Exterier pools, Whirpools	Interier pools, Exterier pools , Whirpools	Interier pools, Exterier pools , Whirpools	Interier pools, Exterier pools, Whirpools	Interier pools, Exterier pools
TOC reduction	-	-	-	-	-	Yes
Power supply	Magnetic power supply	Magnetic power supply	Advanced electronic power supply (LifeAGE® technology)	Magnetic power supply	Advanced electronic power supply (LifeAGE® technology)	Advanced electronic power supply (LifeAGE® technology)
	Profession of	Profits as	Charm	Clear	Top	
Connection	1 ½"-3"	2'''-3"	2'''-3"	DN 125 - DN 300 (flange)	DN 125 – DN 400 (flange)	2" – DN 250 (flange)
Total power input of UV lamps	0.25 - 0.8 kW	0.4 - 0.8 kW	0.4 -0.6 kW	1 - 12 kW	1 – 18 kW	1.8- 9.0 kW
	Without wiper	Without wiper	Without wiper	Without wiper	Without wiper	Without wiper
Wiper	tech	tech				
	Manual wiper	Manual wiper	Manual wiper	Manual wiper	Manual wiper	Manual wiper
		G Liferach Wilco	CLifferen	Culteren	GLiferect	
	Automatic wiper	Automatic wiper	Automatic wiper	Automatic wiper	Automatic wiper	Automatic wiper
Sensor	Temperature	Temperature	Temperature sensor	Temperature sensor UV sensor Modbus connection	Temperature sensor UV sensor Modbus connection TS touch display	Temperature sensor UV sensor Modbus connection TS touch display
Optional	UV sensor	UV sensor	UV sensor	-	-	-

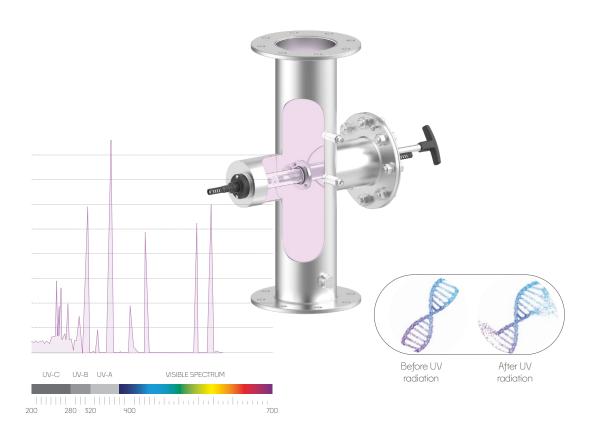
 $^{^{\}ast}$ More about the LifeOX® M modular system on page 51

Looking for a solution for private pools? Page 16

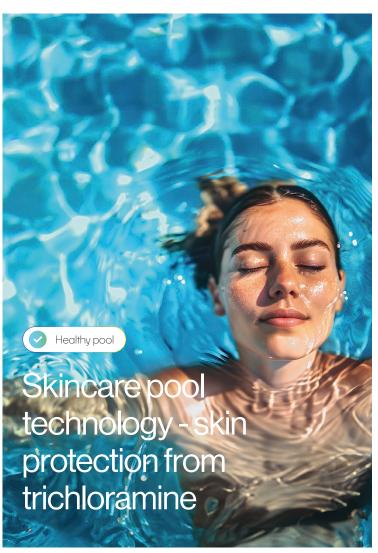


Medium-pressure UV technology — reduces pool chemicals, saves money

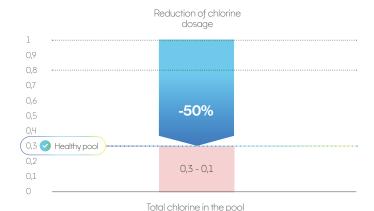
Medium-pressure UV lamps operate on the broad-spectrum radiation principle, spanning from 200 to 600 nm. This broad range of wavelengths enhances their effectiveness by increasing the number of pathogens they can target. Furthermore, this broad-spectrum UV radiation permanently disrupts the DNA of microorganisms, preventing any possibility of DNA repair and reactivation.



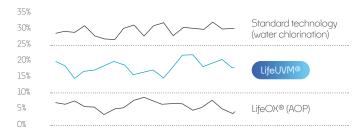




Fast ROI (Return On Investment) >> Chlorine Reduction 50%

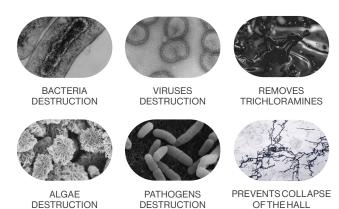


Independent measurement and testing took place in a public swimming pool in Bismo, Norway. (2007)



Bound chlorine (mg/l)

UV radiation eliminates the DNA of microorganisms permanently



ProfiPure Smallest medium Pressure UV you can get

Public pools: up to 30 m³/h

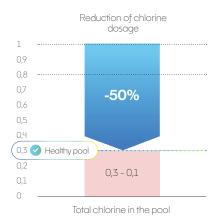
Permanent chlorine-free disinfection and elimination of unhealthy trichloramine in one compact system. Healthy pool technology. The first skincare UVM technology on the market,

which prevents aging of the skin. Minimizing the chemicals in the water plus reduction of monthly costs.





Expected life of UV lamp	5,000 hours
Technology (Series)	Medium-pressure UV systems (200–600 nm)
Application	Interier pools Exterier pools Whirpools
Salt water	Yes
Max flow rate (UV dose 60 mJ/cm²)	up to 30 m³/h
Power supply	Magnetic power supply
Connection	1 ½"-3"
Total power input of UV lamps	0,25 - 0,8 kW
Wiper	Without wiper
Material	Stainless-steel reactor 316L (Salt water resistant)
Sensor	Temperature
Optional	UV sensor

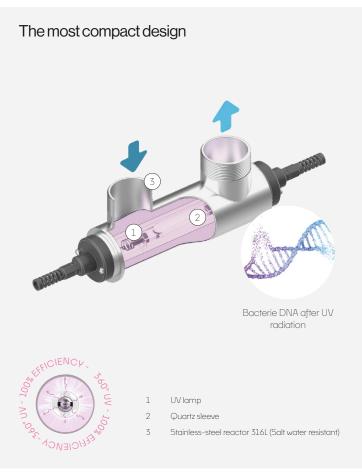














Models

Without wiper (NW)	Manual wiper (MW)	Automatic wiper (AW)	Connection	Max flow rate Public pools and whirlpools (m³/h) (UV dose 60 mJ/cm²)	Total power input of UV lamps (kW) / phase
ProfiPure 100	-	-	1 ½"	4.7	0.25 / I
ProfiPure 200	-	=	2"	4.7	0.25 / I
ProfiPure 18	=	=	2"	9.0	0.25 / I
ProfiPure 30	=	-	3″	15	0.40 / I
ProfiPure 49	-	-	3″	30	0.80 / I

ProfiTiny Medium Pressure UV with wiper

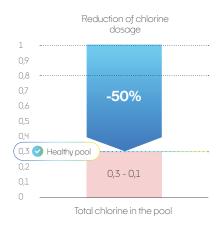
Public pools: up to 44 m³/h

Permanent chlorine-free disinfection and elimination of unhealthy trichloramine in one compact system. Healthy pool technology. The first skincare UVM technology on the market, which prevents aging of the skin. Minimizing the chemicals in

the water plus reduction of monthly costs. The manual wiper is an easy way to clean the surface of the quartz sleeves periodically to prevent energy losses and water treatment drops.



5,000 hours			
Medium-pressure UV systems (200–600 nm)			
Interier pools Exterier pools Whirpools			
Yes			
up to 44 m³/h			
Magnetic power supply			
2"'-3"			
0,4 - 0,8 kW			
Without wiper, Manual wiper			
Stainless-steel reactor 316L (Salt water resistant)			
Temperature			
UV sensor			



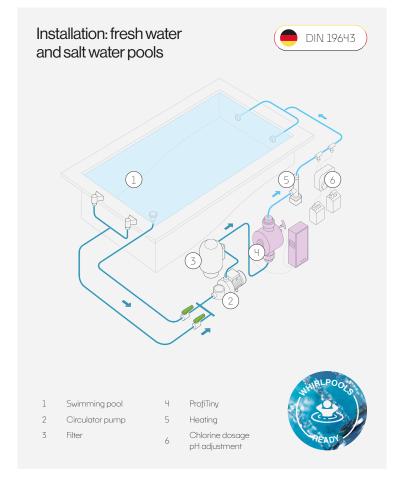












Models

Without wiper (NW)	Manual wiper (MW)	Automatic wiper (AW)	Connection	Max flow rate Public pools and whirlpools (m³/h) (UV dose 60 mJ/cm²)	Total power input of UV lamps (kW) / phase
LifeUVM0104-13-NW-MP-LE	LifeUVM0104-13-MW-MP-LE	-	2"	9	0.4 / I
LifeUVM0104-25-NW-MP-LE	LifeUVM0104-25-MW-MP-LE	-	3"	27	0.4 / I
LifeUVM0204-25-NW-MP-LE	LifeUVM0204-25-MW-MP-LE	-	3"	44	0.8 / I

Charm Fully automatic Medium Pressure UV

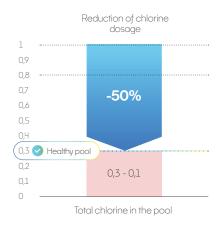
Public pools: up to 33 m³/h

Permanent chlorine-free disinfection and elimination of unhealthy trichloramine in one compact system. Healthy pool technology. The first skincare medium-pressure UV technology on the market, which prevents aging of the skin. Minimizing the chemicals in the water and reduction of monthly costs. The unique LifeAGE® technology will reduce

operating costs by up to 25% compared to standard UVM systems. Reduction of chlorine dose by up to 50%. Automatic wiper is the best way to clean the surface of the quartz sleeves periodically to prevent UV dose losses and water treatment drops.



Expected life of UV lamp	10,000 hours				
Technology (Series)	Medium-pressure UV systems (200–600 nm)				
Application	Interier pools Exterier pools Whirpools				
Salt water	Yes				
Max flow rate (UV dose 60 mJ/cm²)	up to 33 m³/h				
Power supply	Advanced electronic power supply (LifeAGE® technology)				
Connection	2'''-3"				
Total power input of UV lamps	0.4 -0.6 kW				
Wiper	Manual wiper, Automatic wiper				
Material	Stainless-steel reactor 316L (Salt water resistant)				
Sensor	Temperature				
Optional	UV sensor				





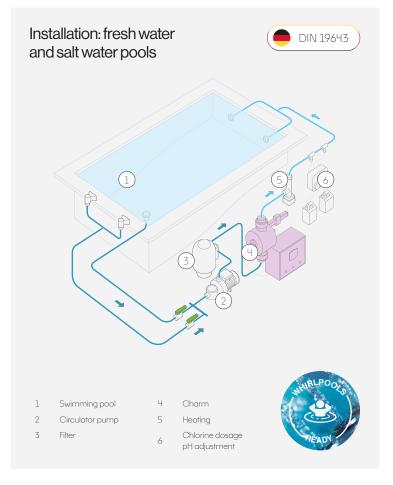












Models

Without wiper (NW)	Manual wiper (MW)	Automatic wiper (AW)	Connection	Max flow rate Public pools and whirlpools (m³/h) (UV dose 60 mJ/cm²)	Total power input of UV lamps (kW)/phase
-	LifeUVM0104-13-MW-AEP-LD	LifeUVM0104-13-AW-AEP-LD	2"	9	0.4 / I
-	LifeUVM0104-25-MW-AEP-LD	LifeUVM0104-25-AW-AEP-LD	3"	27	0.4 / I
-	LifeUVM0106-25-MW-AEP-LD	LifeUVM0106-25-AW-AEP-LD	3"	33	0.6 / I

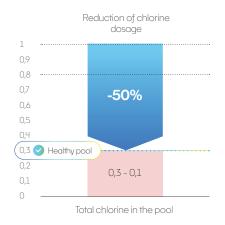
Clear **Professional** solutions

Public pools: up to 616 m³/h

Industrial-grade medium-pressure UV for permanent disinfection & destruction of unhealthy trichloramine in one compact system. Trichloramine causes: asthma, pool odor, red eyes, drying and burning of the skin, corrosion of materials. Reduction of chlorine dosage by up to 50%.



Expected life of UV lamp	10,000 hours				
Technology (Series)	Medium-pressure UV systems (200–600 nm)				
Application	Interier pools Exterier pools Whirpools				
Max flow rate (UV dose 60 mJ/cm²)	up to 616 m³/h				
Power supply	Magnetic power supply				
Connection DN	2'''-3"				
Total power input of UV lamps	1 - 12 kW				
Wiper	Manual wiper, Automatic wiper				
Extension	Temperature sensor UV sensor Modbus connection				



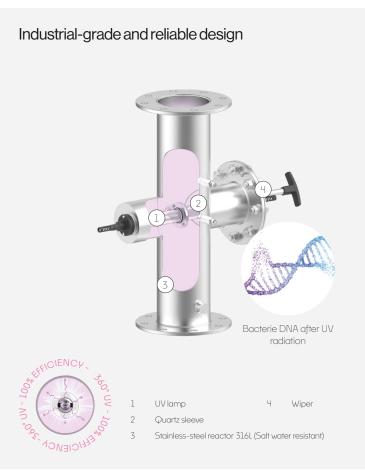


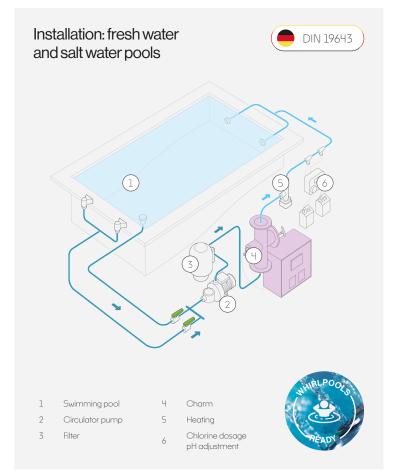












Models

Without wiper (NW)	Manual wiper (MW)	Automatic wiper (AW)	Connection DN	Max flow rate Public pools and whirlpools (m³/h) (UV dose 60 mJ/cm²)	Total power input of UV lamps (kW) / phase
=	LifeUVM0110-13-MW-MP-TS-D-DN125	LifeUVM0110-13-AW-MP-TS-D-DN125	125	33	1/I
-	LifeUVM0110-16-MW-MP-TS-D-DN150	LifeUVM0110-16-AW-MP-TS-D-DN150	150	46	1/I
=	LifeUVM0120-16-MW-MP-TS-D-DN150	LifeUVM0120-16-AW-MP-TS-D-DN150	150	63	2/III
-	LifeUVM0120-21-MW-MP-TS-D-DN200	LifeUVM0120-21-AW-MP-TS-D-DN200	200	88	2/III
-	LifeUVM0120-21-MW-MP-TS-D-DN150	LifeUVM0120-21-AW-MP-TS-D-DN150	150	88	2/III
=	LifeUVM0220-27-MW-MP-TS-D-DN250	LifeUVM0220-27-AW-MP-TS-D-DN250	250	196	4/111
-	LifeUVM0220-27-MW-MP-TS-D-DN200	LifeUVM0220-27-AW-MP-TS-D-DN200	200	196	4/111
-	LifeUVM0320-32-MW-MP-TS-D-DN300	LifeUVM0320-32-AW-MP-TS-D-DN300	300	315	6/111
-	LifeUVM0420-32-MW-MP-TS-D-DN300	LifeUVM0420-32-AW-MP-TS-D-DN300	300	385	8/111
-	LifeUVM0620-32-MW-MP-TS-D-DN300	LifeUVM0620-32-AW-MP-TS-D-DN300	300	616	12/III

TOP direct Best UV you can get

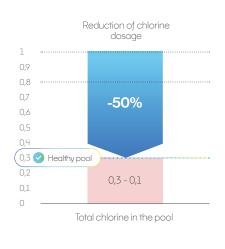
Public pools: up to 910 m³/h

The most advanced mediu-pressure UV system on the market. Permanent Disinfection & Destruction of Unhealthy Trichloramine in One Compact System with Unique LifeAGE® Technology. Trichloramine causes: asthma, pool odor, red eyes, drying and burning of the skin, corrosion. The unique LifeAGE® technology will reduce operating costs by up to 50%

compared to standard UVM systems, extend the lifetime of UVM lamps by up to 100%, ensure automatic regulation of the UVM lamp radiation performance according to the current pool water pollution. Reduction of chlorine dosage by up to 50%.

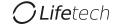


Expected life of UV lamp	18,000 hours				
Technology (Series)	Medium-pressure UV systems (200–600 nm)				
Application	Interier pools Exterier pools Whirpools				
Max flow rate (UV dose 60 mJ/cm²)	up to 910 m³/h				
Power supply	Advanced electronic power supply - LifeAGE®				
Total power input of UV lamps	1 – 18 kW				
Wiper	Manual wiper, Automatic wiper				
Extension	Temperature sensor UV sensor Modbus connection TS touch display				







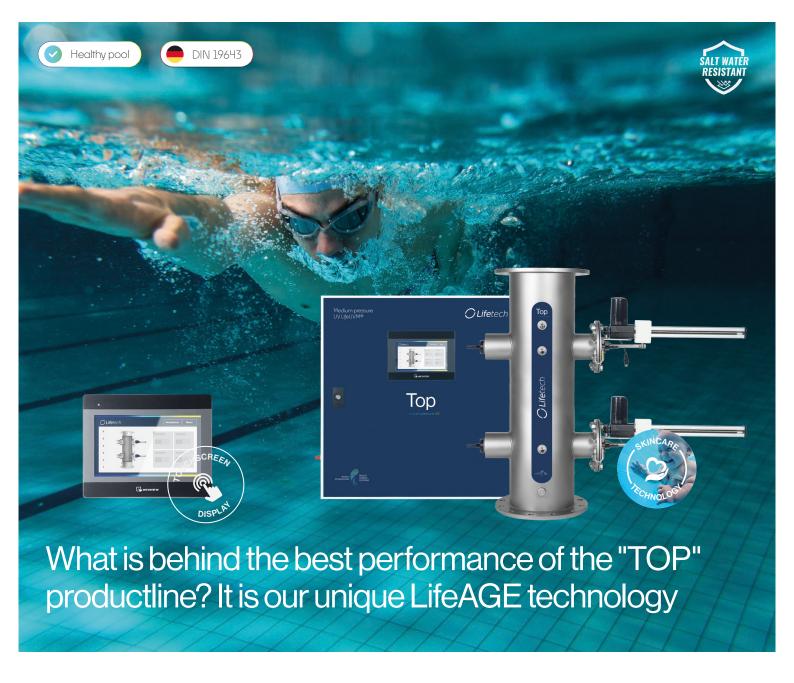






Models

Without wiper (NW)	Manual wiper (MW)	Automatic wiper (AW)	Connection DN	Max flow rate - Public pools and whirlpools (m³/h) (UV dose 60 mJ/cm²)	Total power input of UV lamps (kW) / phase
-	LifeUVM0110-13-MW-AEP-TS-D-DN125	LifeUVM0110-13-AW-AEP-TS-D-DN125	125	33	1/
-	LifeUVM0110-16-MW-AEP-TS-D-DN150	LifeUVM0110-16-AW-AEP-TS-D-DN150	150	46	1/I
=	LifeUVM0120-16-MW-AEP-TS-D-DN150	LifeUVM0120-16-AW-AEP-TS-D-DN150	150	63	2/
=	LifeUVM0120-21-MW-AEP-TS-D-DN200	LifeUVM0120-21-AW-AEP-TS-D-DN200	200	88	2/
-	LifeUVM0120-21-MW-AEP-TS-D-DN150	LifeUVM0120-21-AW-AEP-TS-D-DN150	150	88	2/I
-	LifeUVM0130-27-MW-AEP-TS-D-DN250	LifeUVM0130-27-AW-AEP-TS-D-DN250	250	147	3/I
-	LifeUVM0130-27-MW-AEP-TS-D-DN150	LifeUVM0130-27-AW-AEP-TS-D-DN150	150	147	3/I
-	LifeUVM0130-32-MW-AEP-TS-D-DN300	LifeUVM0130-32-AW-AEP-TS-D-DN300	300	207	3/I
-	LifeUVM0130-32-MW-AEP-TS-D-DN250	LifeUVM0130-32-AW-AEP-TS-D-DN250	250	207	3/I
-	LifeUVM0230-27-MW-AEP-TS-D-DN250	LifeUVM0230-27-AW-AEP-TS-D-DN250	250	252	6/111
-	LifeUVM0230-32-MW-AEP-TS-D-DN300	LifeUVM0230-32-AW-AEP-TS-D-DN300	300	315	6/III
-	LifeUVM0230-32-MW-AEP-TS-D-DN250	LifeUVM0230-32-AW-AEP-TS-D-DN250	250	315	6/III
-	LifeUVM0330-32-MW-AEP-TS-D-DN300	LifeUVM0330-32-AW-AEP-TS-D-DN300	300	462	9/III
-	LifeUVM0430-32-MW-AEP-TS-D-DN300	LifeUVM0430-32-AW-AEP-TS-D-DN300	300	616	12/
-	LifeUVM0430-37-MW-AEP-TS-D-DN350	LifeUVM0430-37-AW-AEP-TS-D-DN350	350	630	12/
-	LifeUVM0430-40-MW-AEP-TS-D-DN400	LifeUVM0430-40-AW-AEP-TS-D-DN400	400	644	12/
-	LifeUVM0430-40-MW-AEP-TS-D-DN350	LifeUVM0430-40-AW-AEP-TS-D-DN350	350	644	12/III
-	LifeUVM0530-40-MW-AEP-TS-D-DN400	LifeUVM0530-40-AW-AEP-TS-D-DN400	400	770	15/
-	LifeUVM0530-40-MW-AEP-TS-D-DN350	LifeUVM0530-40-AW-AEP-TS-D-DN350	350	770	15/111
-	LifeUVM0630-40-MW-AEP-TS-D-DN400	LifeUVM0630-40-AW-AEP-TS-D-DN400	400	910	18/III





Minimal operational expenses

- Low power consumption
- Reduction of regular service costs (replacement of lamps, technician's work, transport)

UV radiation intensity

- Lowest required
- Stable production

Versatile use

· Maintains water quality even under extreme and variable loads

Expected lifespan

- · Longest possible life of medium-pressure lamps
- Reducing the carbon footprint

The LifeAGE $^{\oplus}$ technology automatically ensures the operation of the medium-pressure UVM system at all times with the lowest required UV power and power consumption.



LifeAGE saves up to 50% of energy costs.

The magic lies in the dynamic release of energy needed to economically manage the intensity of UV radiation. The medium-pressure LifeUVM® system with the LifeAGE® technology emits UV intensity copying the minimum required radiation intensity curve. This system is autonomous and works in real-time. Therefore, it does not need to be connected to any external device that controls it to achieve this optimal intensity course. Therefore, the life of the UV lamp can be increased to up to 18,000 operating hours.

Diagram

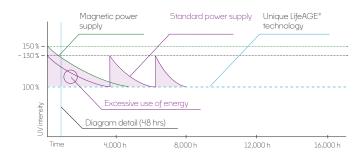
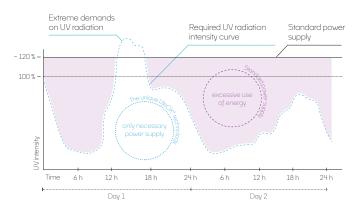
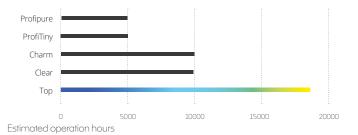


Diagram detail (48 hrs)



LifeAGE prolongs lifespan of UV lamps by up to 125%

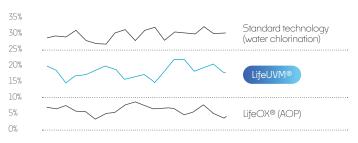
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Don't forget that you also save 50% on pool chemicals thanks to medium-pressure UV technology



Independent measurement and testing took place in a public swimming pool in Bismo, Norway. (2007)



Bound chlorine (mg/l)

What other products have LifeAGE technology?

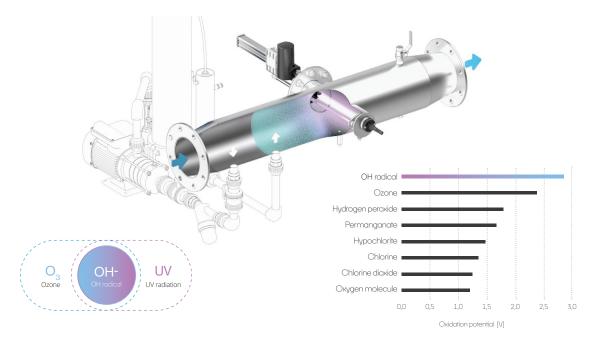


AOP (Advanced Oxidation Process) — reduces pool chemicals, saves money

The high oxidation potential of ozone can be significantly increased by combining it with UV radiation. This method is known as advanced oxidation or UV oxidation. LIFETECH has developed its own LifeOX® technology based on optimised synergy between ozone and UV radiation.

The advanced oxidation process (AOP) is today's best water treatment technology. AOP is based on the formation of OH-radicals in the water. These OH-radicals

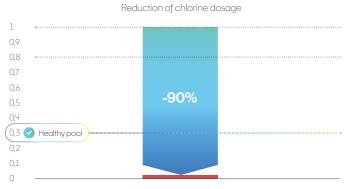
have considerably higher oxidation potential compared to other water treatment oxidants. This means that OH-radicals (i.e., AOP technology) are able to oxidise particles in water much faster and more efficiently. The comparison can be found in the chart above. OH-radicals have a higher oxidation potential than hydrogen peroxide or ozone. The higher the oxidation potential, the more effective the water disinfection and purification.





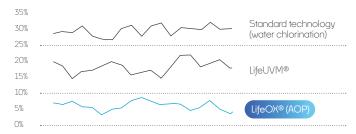


Fastest ROI (Return On Investment) >> Chlorine Reduction 90%



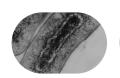
Total chlorine in the pool

Independent measurement and testing took place in a public swimming pool in Bismo, Norway (2007)



Bound chlorine (mg/l)

The higher the oxidation potential, the more effective the water disinfection and purification.



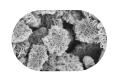
BACTERIA DESTRUCTION



VIRUSES DESTRUCTION



IRON AND MANGANISE OXIDATION



ALGAE DESTRUCTION



PATHOGENS DESTRUCTION



HAZARDOUS CONTAMINANTS DESTRUCTION



REMOVES
TRICHLORAMINES



REMOVES TASTE AND ODOR



REMOVES
ORGANIC POLLUTANT
TOC (TOTAL ORGANIC
CARBON)



ORGANIC
POLLUTANTS (BTEX,
POPS, AOX, ETC.)
DESTRUCTION



PREVENTS COLLAPSE OF THE HALL

LifeOX® M The best technology money can get

Public pools: up to 250 m³/h

Disinfection & Prevention of the Formation of Unhealthy Trichloramine & TOC Reduction in One Compact System = the Most Effective Pool Water Treatment Technology with the Fastest Return on Investment. Trichloramine causes: asthma, pool odor, red eyes, drying and burning of the skin, corrosion. TOC - the total amount of organic substances contaminating the water. Reducing TOC increases the amount of recyclable washing water after washing the filters = saving water and energy.





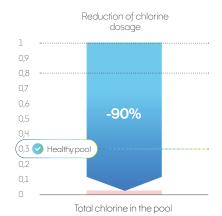






E	1,300x1,300x2,000 mm	3

Technology	AOP (Advanced Oxidation Process)				
Application	Interier pools Exterier pools Whirpools				
Max flow rate	up to 250 m³/h				
Ozone generation	Air dryer Oxygen concentrator				
Ozone generation technology	Corona discharge				
AOP technology	Ozone + UV				
UV lamp type	Medium-pressure LifeUVM®				
Power control	10-100 %				
Installation	Plug & Play				
Connection system	In pipes (in-line) In by-pass				
Input power (kW)	1.8-9.0				





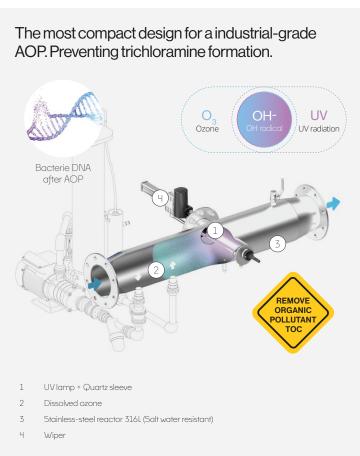
Online animation about LifeOX® M®

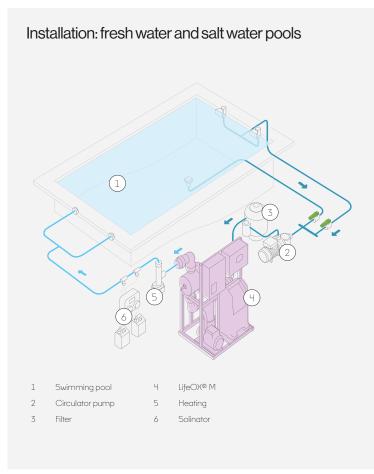








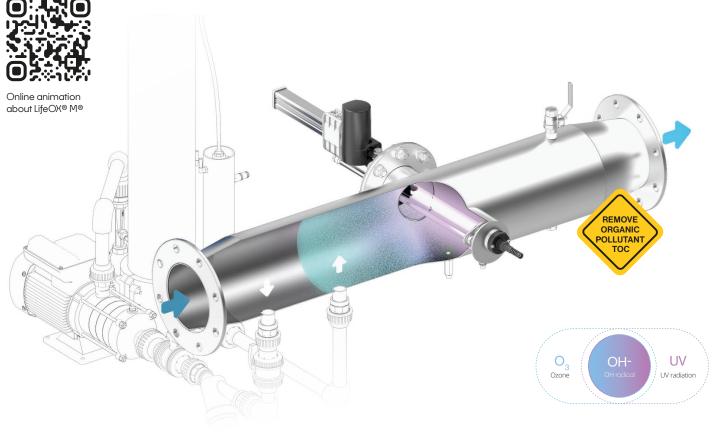


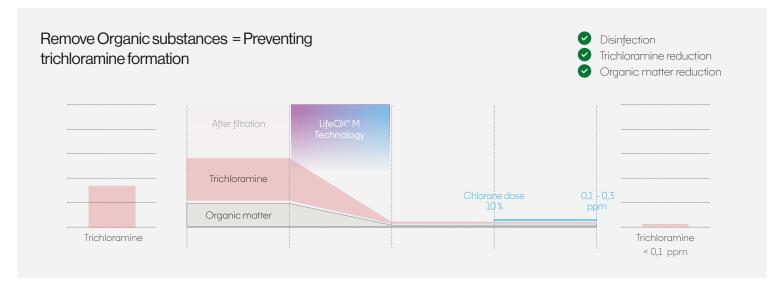


Modely

Model	Ozone generation	Connection	Max flow rate Public pools (m³/h)	Input power (kW)	Dimensions (mm)	Weight (kg)
LifeOX® M10.EP	Air dryer	2"	10	1.8	985x847x1,202	100
LifeOX® M20.EP	Air dryer	2"	20	2.0	985x847x1,202	100
LifeOX® M40.EP	Oxygen concentrator	3"	40	2.5	1,110x857x1,472	140
LifeOX® M90.EP	Oxygen concentrator	DN 125 (flange)	90	3.9	1,300×1,300×2,000	250
LifeOX® M140.EP	Oxygen concentrator	DN 150 (flange)	140	5.9	1,300x1,300x2,000	250
LifeOX® M250.EP	Oxygen concentrator	DN 250 (flange)	250	9.0	1,500x1,300x2,000	280

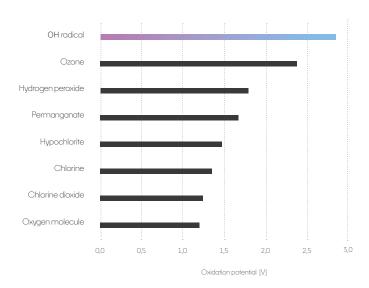




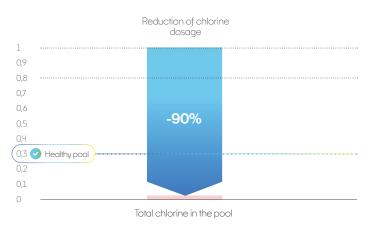


The higher the oxidation potential, the more effective the water disinfection and purification.

The AOP is today's best available technology for pool water treatment, it eliminates hazardous substances and their root-cause. The result is crystal clear, healthy and odorless pool. This is our LifeOX®M technology, proven by our clients since 2007.

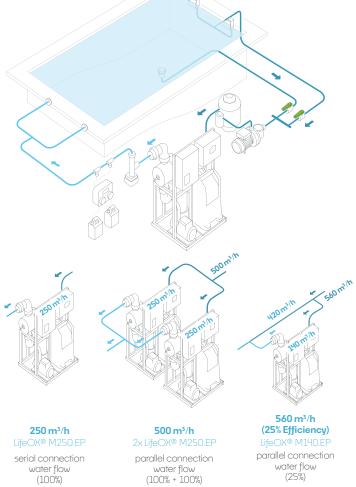


Don't forget that you also save 90% on pool chemicals thanks to AOP the technology



The LifeOX® M modular system treats any water flow, up to 250 m³/h per one system

LifeOX technology has been proven in aqua parks, toddler swimming pools, public whirlpools, swimming ponds and aquaculture. Increased number of satisfied visitors due to healthy water and enhanced air quality, making the pool suitable for asthmatics, allergics and toddlers. Prevents the Formation of Bound Chlorine and Trichloramine which Causes Asthma, Pool Odor, Red Eyes, Drying and Burning of the Skin, Corrosion

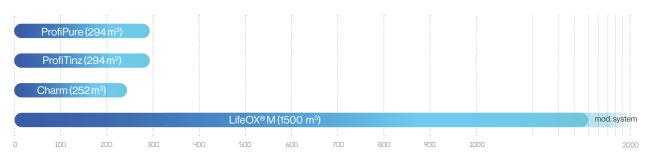


Clearly and in summary, choose what is best for you, and if you do not know, we will acvise, contact tous

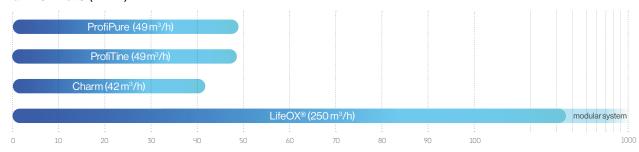
Private pool and whirpool



Max volume pool and whirpool (m3)



Max flow rate (m³/h)



Public pool and whirpool



Max flow rate (m³/h)



Product comparison - technical parameters













Тор	LifeOX® M10,20	LifeOX® M 40	LifeOX® M 90, 140, 250
18 000 hours	10 000 hours	10 000 hours	10 000 hours
Medium-pressure UV	AOP (Advanced Oxidation Process)	AOP (Advanced Oxidation Process)	AOP (Advanced Oxidation Process)
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
-	120 m³	240 m³	1500 m³
-	20 m³/h /1 unit	40 m³/h /1 unit	250 m³/h /1 unit
910 m³/h	20 m³/h /1 unit	40 m³/h /1 unit	250 m³/h /1 unit
Interier pools, Exterier pools, Whirpools	Interier pools, Exterier pools , Whirpools	Interier pools, Exterier pools	Interier pools, Exterier pools
-	Yes	Yes	Yes
Advanced electronic power supply (LifeAGE® technology)			
Top			
DN 125 – DN 400 (flange)	2"	3"	DN 125 – DN 250 (flange)
1 – 18 kW	1.8- 9.0 kW	1.8-9.0 kW	1.8-9.0 kW
Without wiper	Without wiper	Without wiper	Without wiper

Top			
DN 125 - DN 400 (flange)	2"	3"	DN 125 - DN 250 (flange)
1 – 18 kW	1.8-9.0 kW	1.8-9.0 kW	1.8-9.0 kW
Without wiper	Without wiper	Without wiper	Without wiper
Manual wiper	Manual wiper	Manual wiper	Manual wiper
Automatic wiper	Automatic wiper	Automatic wiper	Automatic wiper
Temperature sensor UV sensor Modbus connection TS touch display			

Product comparison - health risks

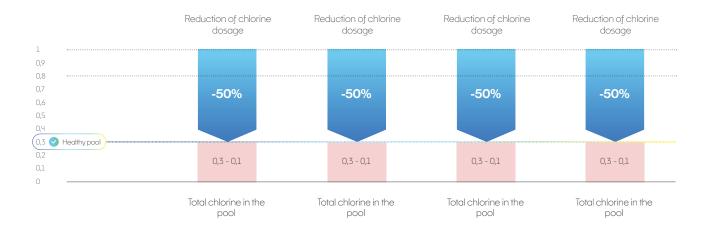








	ProfiPure	ProfiTiny	Charm	Clear
Bacteria Destruction	Yes	Yes	Yes	Yes
Viruses Destruction	Yes	Yes	Yes	Yes
Iron and manganise oxidation	-	-	-	-
Removes Trichloramines	Yes	Yes	Yes	Yes
Removes taste and odor	-	-	-	-
Removes Organic pollutant TOC (Total Organic Carbon)	-	-	-	-
Algae Destruction	Yes	Yes	Yes	Yes
Pathogens Destruction	Yes	Yes	Yes	Yes
Hazardous contaminants Destruction	-	-	-	-
Organic pollutants (BTEX, POPs, AOX, etc.) Destruction	-	-	-	-
Prevents collapse of the hall	Yes	Yes	Yes	Yes
Removes typical pool smell	Yes	Yes	Yes	Yes
Prevents irritation and drying of the skin	Yes	Yes	Yes	Yes
Swimming without red eyes	Yes	Yes	Yes	Yes
Prevents coughing and difficulty breathing	Yes	Yes	Yes	Yes
Prevents premature skin aging	Yes	Yes	Yes	Yes





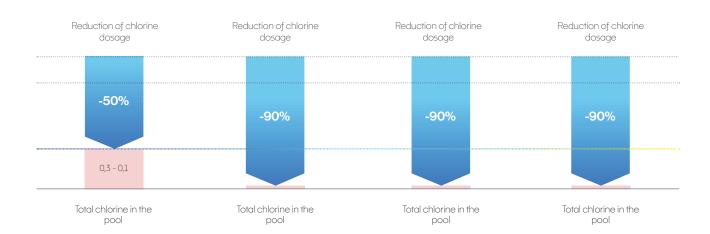








Тор	LifeOX® M10,20	LifeOX® M 40	LifeOX® M 90, 140, 250
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
-	Yes	Yes	Yes
Yes	Yes	Yes	Yes
-	Yes	Yes	Yes
-	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
-	Yes	Yes	Yes
-	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes



Comparative technology - health risks

Chlorination only

The chemical compound trichloramine (Part of combined chlorine) becomes carcinogenic at high concentrations and can trigger asthma, allergies, skin irritation and dryness, and eye irritation. It is the compound behind the typical "chlorine" smell associated with swimming pools. In essence, a pool with a strong chlorine smell indicates high levels of bound chlorine and is NOT healthy. Additionally, trichloramine contributes to the corrosion of materials within

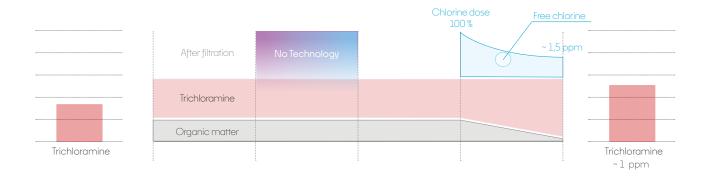
swimming pools and indoor pool structures. Pools with chlorination and filtration only are prone to chlorine-resistant bacteria such as Pseudomonas aeruginosa, Legionella, Mycobacterium avium, and Cryptosporidium. These bacteria can withstand typical chlorine concentrations found in pools and can cause severe or even deadly ilnesses. The parasite giardia lamblia – causes severe diarrhoea.

Disinfection

× Trichloramine reduction

Organic matter reduction

» Swimming pool with high concentrations with trichloramines, NOT a healthy pool



Low Pressure UV

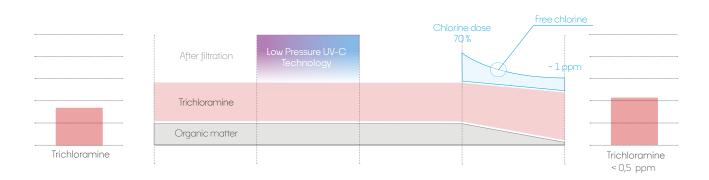
That harsh "chlorine pool" smell? It's actually trichloramine, a chemical compound of bound chlorine that is carcinogenic at higher concentrations and linked to asthma, skin irritation, and even damage to pool equipment. The concentration of disinfecting chlorine can be reduced to 0.5 mg/l. The concentration of disinfecting chlorine is 0.7-1 mg/l. Chlorine dosage 100%

» These lamps are based on low-pressure UV light bulbs with single wavelength of UV. These lamps do NOT remove the harmful trichloramine!

Disinfection

Trichloramine reduction

Organic matter reduction





Medium Pressure LifeUVM®

Ensure healthy water and a pleasant environment with UV systems featuring medium-pressure UV lamps, which simultaneously disinfect water and remove harmful Trichloramine. Standard low-pressure UV lamps cannot achieve this, which is why the German standard DIN 19643 for public swimming pool water treatment mandates the use of UV systems with medium-pressure lamps. This advanced technology, previously exclusive to

public pools, is now available for private pools. It also allows for the reduction of disinfecting chlorine concentration to 0.3 mg/l.

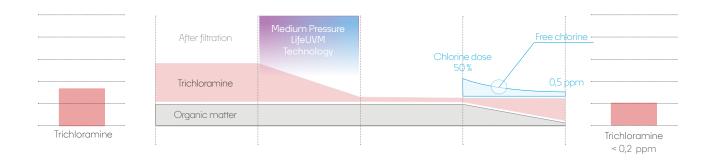
» Get a healthy swimming pool, removes the harmful Trichloramine

Disinfection

Trichleramin

Trichloramine reduction

Organic matter reduction



AOP LifeOX®M

The pool water attains the quality of drinking water, creating a healthy and pleasant environment suitable even for toddlers, asthmatics, and allergy sufferers. It is free from harmful Trichloramine and organic TOC (Total Organic Carbon) contaminants. The concentration of disinfecting chlorine can be reduced to

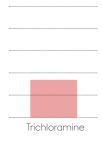
Disinfection

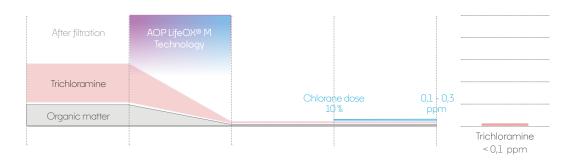
Trichloramine reduction

Organic matter reduction

0.1-0.2 mg/l. This results in a radical reduction of operating costs and the fastest return on investment.

» Most powerful technology avaiable. Get a healthy swimming pool, removes harmful Trichloramine and its source. Reduce TOC (Total organic carbon)







Contact



Please do not hesitate to contact us with any questions or comments. We speak Czech, English, German, Arabic and Russian.

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