



# Chlorine-free technology *for a healthy pools*

Private pools

Private whirlpools

Public pools

Public whirlpools

Low-pressure UV

A vibrant, high-angle photograph of three children playing in a swimming pool. A boy in the foreground is splashing water, while two girls behind him are laughing and holding large, colorful inflatable rings (one yellow, one pink). The water is bright blue with white splashes, and the background shows a clear blue sky.

# 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.

LIFETECH  
TECHNOLOGIES



REDUCE  
CARBON  
FOOTPRINT

# Why work with us?

## FROM US, 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.

## FROM US, 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@lifetechzone.com](mailto:becomeapartner@lifetechzone.com) our sales team will be happy to assist you.

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 Sea 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 LifeUVM0135W/M 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® 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 stable 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.





## 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.

## 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 Barrandov Aquapark could not believe that after replacing the original UV systems, there was such a radical improvement in water and air quality.



## 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 m<sup>3</sup> in size. Drinking water is 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.





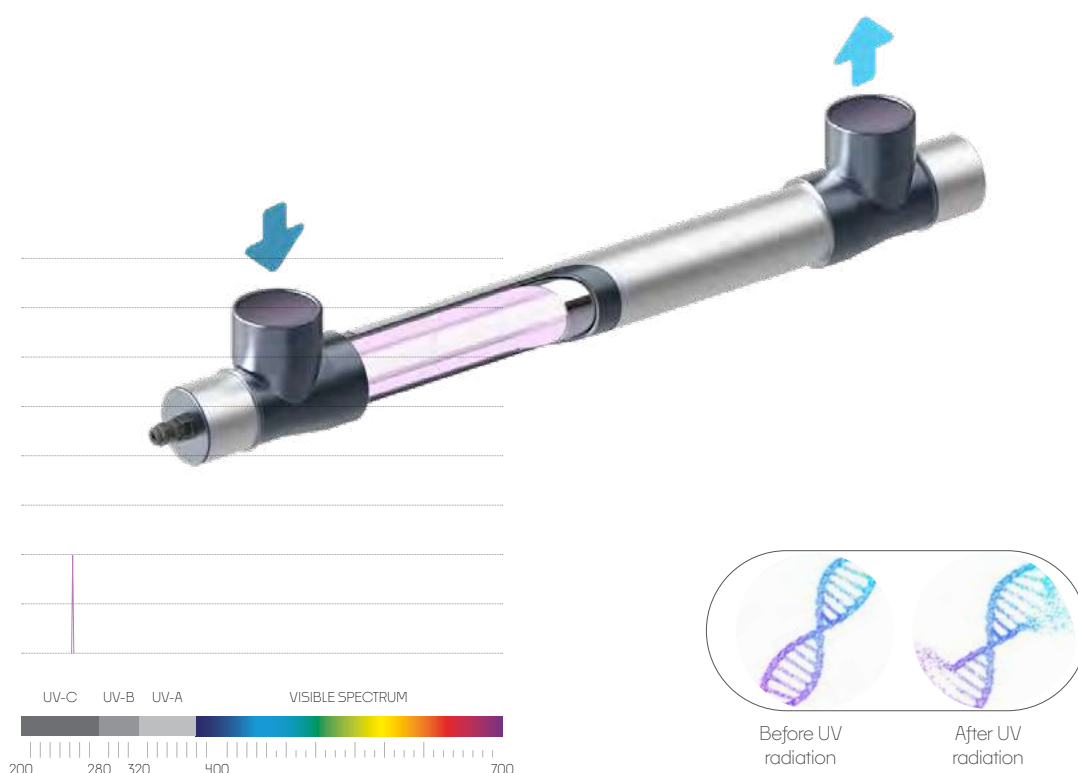
## Olympic swimming pool in Taldykorgan - Kazakhstan

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 m<sup>3</sup>/h and is treated by Lifetech AOP(Advanced Oxidation Process) technology LifeOX®-M.

# Low-pressure UV technology — Effective water disinfection

Low-pressure UV lamps operate on a single-wavelength radiation principle, typically around 254 nm. This specific wavelength is highly effective in inactivating microorgan-

isms by directly damaging their DNA. While the targeted wavelength ensures efficient pathogen control, it consumes less energy

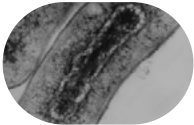




Energy-efficient  
solution –  
Low-pressure UV  
lamps consume less  
energy, reducing  
operational costs.



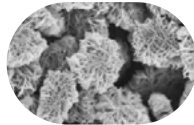
UV radiation damages the DNA of microorganisms



BACTERIA  
DESTRUCTION



VIRUSES  
DESTRUCTION



ALGAE  
DESTRUCTION



PATHOGENS  
DESTRUCTION



Longer UV  
lamp life up to  
**16,000  
hours**



# LifeOX® L

## Compact and Efficient Design

Flow rate  
up to 23 m<sup>3</sup>/h

Chlorine-free disinfection with a highly effective, compact UV-C system. Healthy pool technology that ensures safe and gentle water treatment. Advanced low-pressure UV technology minimizes chemical use and reducing monthly

maintenance costs. The system features a durable plastic body with an internal stainless steel reactor, designed to be resistant to saltwater.

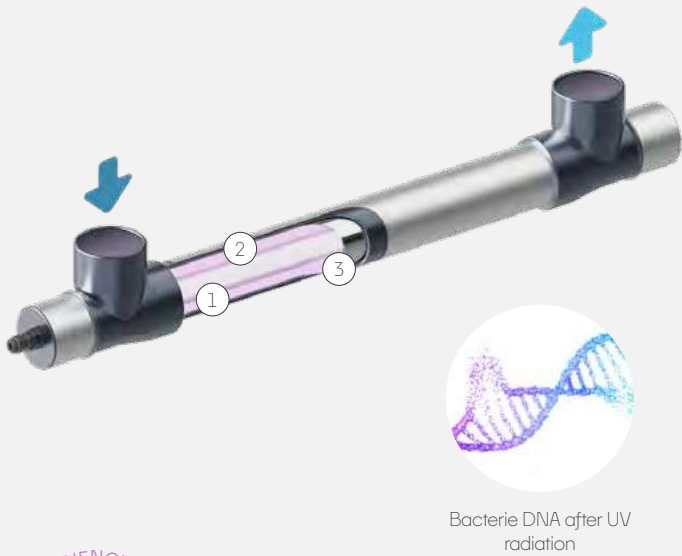


Lifespan lamp	16,000 hours
Technology (Series)	Low-pressure UV systems (254 nm)
Application	Indoor pools Outdoor pools Whirlpools
Salt pool resistant (salt concentration up to 5 kg/m <sup>3</sup> )	Yes
Rec. flow rate for disinfection	13 m <sup>3</sup>
Max flow rate	23 m <sup>3</sup> /h
Pool volume up to	87 m <sup>3</sup>
Max. Pressure	4 bar
Power Supply	Advanced Electronic Ballast, 100-240 V/50-60Hz



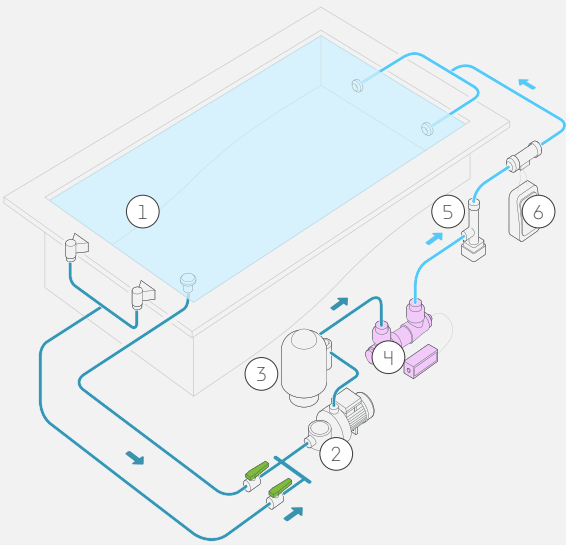
Durable internal stainless steel reactor, built to withstand saltwater environments.

Stainless-steel internal reactor - 316L  
(Salt water resistant)



- 1 UV lamp
- 2 Quartz sleeve
- 3 Stainless-steel internal reactor - 316L  
(Salt water resistant)

Installation: fresh water  
and salt water pools



- 1 Swimming pool
- 2 Circulator pump
- 3 Filter
- 4 LifeOX® L
- 5 Heating
- 6 Solinator



### Models

	Rec. Flow for disinfection (m <sup>3</sup> /h)	Max flow rate (m <sup>3</sup> /h)	Max volume (m <sup>3</sup> )	Max.Pressure (bar)
LifeOX® L100	13	23	48	4
LifeOX® L200	19	23	87	4

# LifeOX® L IoT

## IoT- Smart Pool & Monitoring

Flow rate  
up to 23 m<sup>3</sup>/h

Chlorine-free disinfection with a highly effective, compact UV-C system. Healthy pool technology that ensures safe and gentle water treatment. Advanced low-pressure UV technology minimizes chemical use and reducing monthly

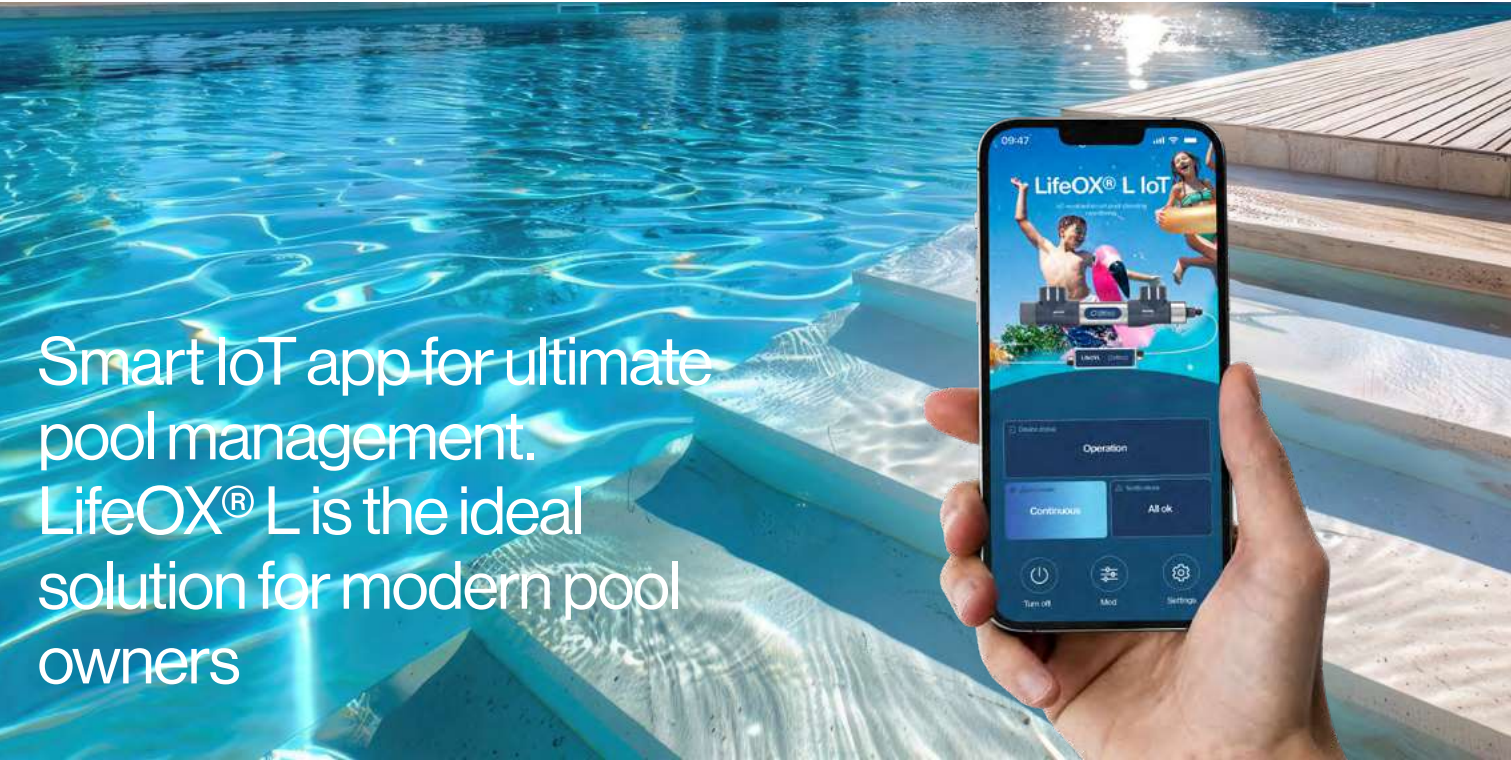
maintenance costs. The system features a durable plastic body with an internal stainless steel reactor, designed to be resistant to saltwater.



Lifespan lamp	16,000 hours
Technology (Series)	Low-pressure UV systems (254 nm)
Application	<input checked="" type="checkbox"/> Indoor pools <input checked="" type="checkbox"/> Outdoor pools <input checked="" type="checkbox"/> Whirlpools
Salt pool resistant (salt concentration up to 5 kg/m <sup>3</sup> )	Yes
Rec. flow rate for disinfection	13 m <sup>3</sup>
Max flow rate	23 m <sup>3</sup> /h
Pool volume up to	87 m <sup>3</sup>
Max. Pressure	4 bar
Power Supply	Advanced Electronic Ballast, 100-240 V/50-60Hz







Smart IoT app for ultimate pool management.  
LifeOX® L is the ideal solution for modern pool owners

Stainless-steel internal reactor - 316L  
(Salt water resistant)

Bacterie DNA after UV radiation

1 UV lamp  
2 Quartz sleeve  
3 Stainless-steel internal reactor - 316L (Salt water resistant)

360° UV - 100% EFFICIENCY - 360° UV - 100% EFFICIENCY

Installation: fresh water and salt water pools

1 Swimming pool  
2 Circulator pump  
3 Filter  
4 LifeOX® L IoT  
5 Heating  
6 Solenoid

WHIRLPOOLS  
READY

### Models

	Rec. Flow for disinfection (m³/h)	Max flow rate (m³/h)	Max volume (m³)	Max.Pressure (bar)
LifeOX® L100 IoT	13	23	48	4
LifeOX® L200 IoT	19	23	87	4

# LifeUVC

## Multi-lamp UV system for ultimate water care

Flow rate  
up to 170 m<sup>3</sup>/h

Chlorine-free disinfection with a highly effective, compact UV-C system. Healthy pool technology that ensures safe and gentle water treatment. Advanced low-pressure UV technology minimizes chemical use and reducing monthly

maintenance costs. The robust design allows for multiple lamp configurations, making it ideal for various pool sizes and conditions.

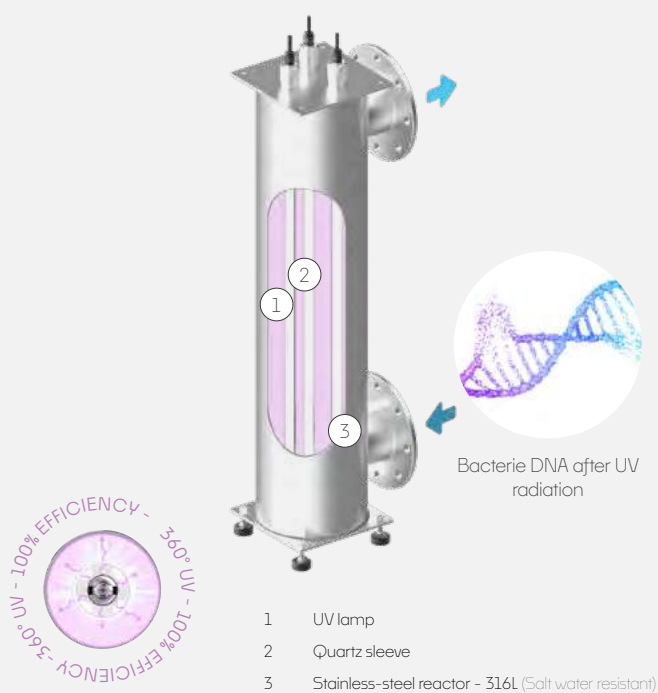


Lifespan lamp	16,000 hours
Technology (Series)	Low-pressure UV systems (254 nm)
Application	Indoor pools Outdoor pools Whirlpools
Salt pool resistant (salt concentration up to 5 kg/m <sup>3</sup> )	Yes
Max flow rate Public pools (UV dose 60 mJ/cm <sup>2</sup> )	66 m <sup>3</sup> /h
Max flow rate Private pools (UV dose 30 mJ/cm <sup>2</sup> )	132 m <sup>3</sup> /h
Max flow rate	170 m <sup>3</sup> /h
Connection	2"-DN150
Total power	48 - 522 W
Power Supply	Advanced Electronic Power, 100-240 V/50-60Hz
Max.Pressure	4 bar
Option	Temperature sensor UV sensor Communication -IoT, RS485

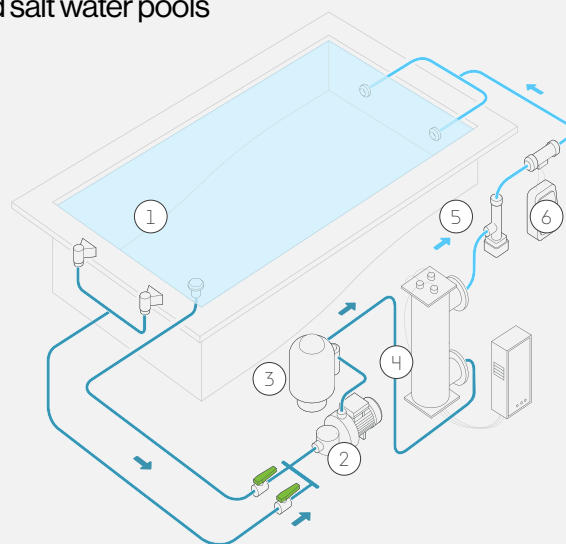
✓ Healthy pool

Efficient, chlorine-free  
UV system with  
multi-lamp design  
for your pool.

### Multi-lamp design



### Installation: fresh water and salt water pools



- |   |                 |   |          |
|---|-----------------|---|----------|
| 1 | Swimming pool   | 4 | LifeUVC  |
| 2 | Circulator pump | 5 | Heating  |
| 3 | Filter          | 6 | Solenoid |



### Models

	Connection	Max flow rate (m³/h) Public pools (UV dose 60 mJ/cm²)	Max flow rate (m³/h) Private pools (UV dose 30 mJ/cm²)	Max flow rate (m³/h)	Lamp power (W)	Total power (W)
LifeUVC0148-16-NW-EB-LE-G2	2"	3	6	20	48	48
LifeUVC0187-16-NW-EB-LE-G3	3"	6,5	13	49	87	87
LifeUVC0287-16-NW-EB-LE-G3	3"	13	26	49	2x87	174
LifeUVC0387-16-NW-EB-LE-G3	3"	20	40	49	3x87	261
LifeUVC0387-20-NW-EB-LE-DN100	DN100	25	50	80	3x87	261
LifeUVC0487-20-NW-EB-LE-DN125	DN125	34	68	120	4x87	348
LifeUVC0587-20-NW-EB-LE-DN125	DN125	42	84	120	5x87	435
LifeUVC0687-20-NW-EB-LE-DN150	DN150	50	100	170	6x87	522
LifeUVC0687-27-NW-EB-LE-DN150	DN150	66	132	170	6x87	522



# LifeUVC IoT

## IoT - Smart Pool & Multi-lamp UV System

Flow rate  
up to 170 m<sup>3</sup>/h

Chlorine-free disinfection with a highly effective, compact UV-C system. Healthy pool technology that ensures safe and gentle water treatment. Advanced low-pressure UV technology minimizes chemical use and reducing monthly

maintenance costs. The robust design allows for multiple lamp configurations, making it ideal for various pool sizes and conditions.



Lifespan lamp	16,000 hours
Technology (Series)	Low-pressure UV systems (254 nm)
Application	Indoor pools Outdoor pools Whirlpools
Salt pool resistant (salt concentration up to 5 kg/m <sup>3</sup> )	Yes
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Max.Pressure	4 bar
Option	Temperature sensor UV sensor Communication -IoT, RS485

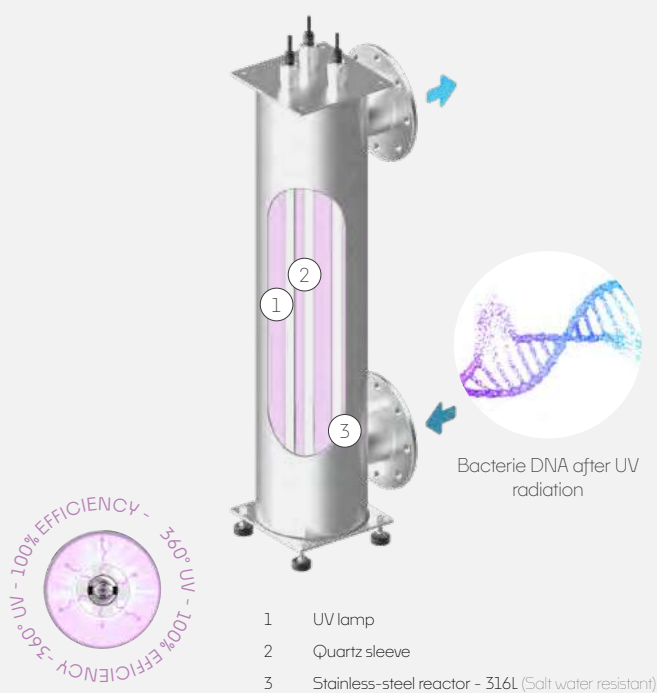


✓ Healthy pool

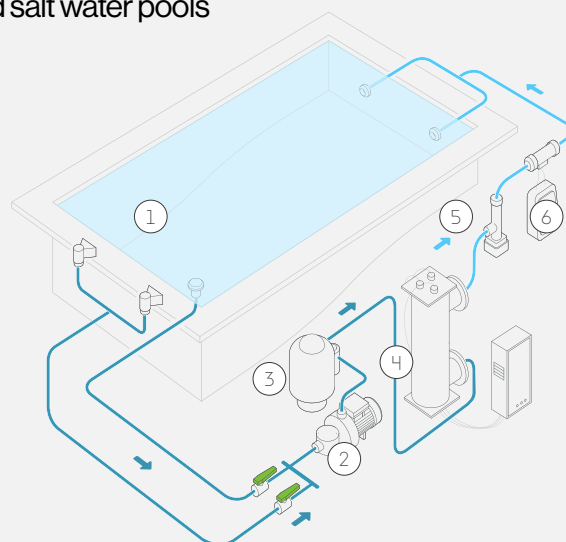
Smart IoT app for complete pool management. LifeUVC IoT is ideal for larger, more demanding pools.



## Multi-lamp design



## Installation: fresh water and salt water pools



- |   |                 |   |             |
|---|-----------------|---|-------------|
| 1 | Swimming pool   | 4 | LifeUVC IoT |
| 2 | Circulator pump | 5 | Heating     |
| 3 | Filter          | 6 | Solenoid    |



## Models

	Connection	Max flow rate (m³/h) Public pools (UV dose 60 mJ/cm²)	Max flow rate (m³/h) Private pools (UV dose 30 mJ/cm²)	Max flow rate (m³/h)	Lamp power (W)	Total power (W)
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LifeUVC0687-20-NW-EB-LE-DN150	DN150	50	100	170	6x87	522
LifeUVC0687-27-NW-EB-LE-DN150	DN150	66	132	170	6x87	522

LESS CHLORINE  
MORE HEALTH

## 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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