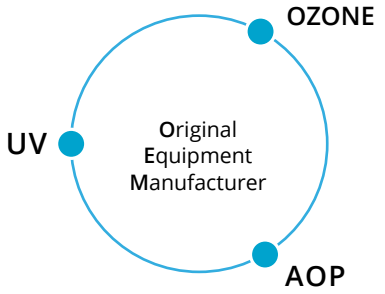
MORE THAN 30 YEARS EXPERIENCE IN UV, OZONE AND AOP



UV LifeUVL®
LifeUVM®

OZONE Exclusive 2.ID
OZAST®50
OZAST®10k

AOP Combi ozone/UV–2.ID
LifeOX®-M
LifeOX®Air-C

Original **E**quipment **M**anufacturer

UV

***UVL** - Low Pressure*
***UVM** - Medium Pressure*
UV power from Watts to tens of kW

LifeUVL®

LifeUVM®

OZONE

Ozone production from g O_3/h to tens of kg O_3/h

Exclusive 2.ID

OZAST® 50

OZAST® 10k

AOP

Combi ozone/UV-2.ID, LifeOX®-M** from m³/h to tens of thousands m³/h of treated water by **AOP

***LifeOX® AIR-C** up to tens of thousands Nm³/h of treated air*

Combi OZONE/UV – 2.ID

LifeOX®-M

LifeOX® Air-C

(AOP = Advanced Oxidation Processes)

TABLE OF CONTENTS

NEW IN 2017	**6**
LOW PRESSURE UV SYSTEM	**8**
LIFEUVL® (ONE LAMP)	11
LIFEUVL® (MULTI LAMPS)	13
LIFEUVL® WIPER (MULTI LAMPS)	14
MEDIUM PRESSURE UV SYSTEMS	**16**
OVERVIEW OF STANDARD LIFEUVM® MODELS	18
TINY - LIFEUVM® - MP – LE	21
CLEVER - LIFEUVM® - AEP – LE	22
CHARM - LIFEUVM® - AEP – LD	23
ECO - LIFEUVM® - AMP – LD	24
ECO - LIFEUVM® - AMP – LD	25
EXCELLENT - LIFEUVM® - AEP – TD	26
EXCELLENT - LIFEUVM® - AEP – TD	27
RUBY - LIFEUVM® - AEP – TS	28
RUBY - LIFEUVM® - AEP – TS	29
OZONE WATER TREATMENT	**32**
EXCLUSIVE 2.EP AND 4.EP	34
EXCLUSIVE 2.ID AND 4.ID	36
OZAST® - COMPACT OZONE GENERATORS	38
OZAST®	40
LIFEOX® INSIDE (AOP)	**42**
COMBI OZONE/UV-EP	44
COMBI OZONE/UV-ID	46
LifeOX®-M	48
LifeOX® Air Technology	**50**
LIFEOX® AIR – C	57
PRODUCT QUALITY	**58**
MORE THAN 30 YEARS EXPERIENCE IN UV, OZONE AND AOP	62

BESTSELLERS

MEDIUM PRESSURE UV SYSTEM
PROFIPURE UV - LIFEUVM® - MP – LE

Revolution in private pool water purification

Bound chlorine reduced up to **99%** with **ProfiPure**

BOUND CHLORINE

A proven source of:

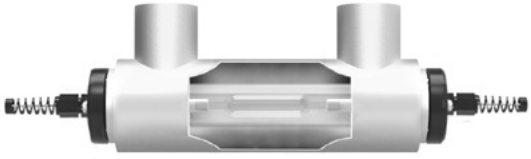
- Asthma
- Skin irritation and drying
- Chlorine pool smell
- Allergies
- Eye redness

FIRST MEDIUM PRESSURE UV FOR THE PRICE OF LOW PRESSURE UV–C

VERIFIED by German norm DIN 19643 as the **only reliable UV technology for pools**

- New UV standard for swimming pools and spa
- Water disinfection
- Destruction of harmful Tri-chloramines
- Prevents swimmers from allergy and asthma, skin and eye irritation
- Pool without the typical chlorine smell
- Building without corrosion

All in one compact LifeUVM® system



BESTSELGER

LIFEOX® M

DET **MEST** K**OMPAKTE** **OZON** OG **MEDIUM UV SYSTEM (AOP SYSTEM)**

Fordeler med LifeOX® M system

- Teknologi: Advanced Oxidation Process (AOP)
- Den beste desinfeksjon som er tilgjengelig
- Den mest kraftfulle oksidering av vann
- Kompakt System - Betydelig lavere plassbehov

APPLICATION:

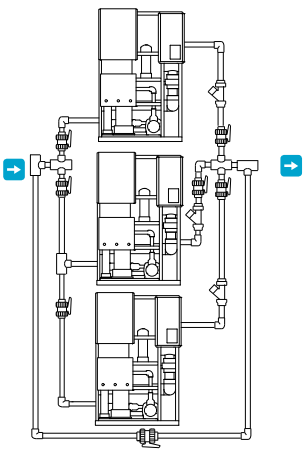
Svømmebasseng
Versjon: 10 m³/h, 40 m³/h og 90 m³/h
Flere enheter kan kobles sammen

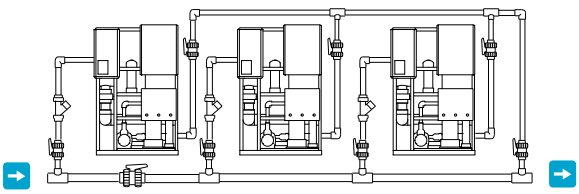
Drik**k**evann
Versjon: 10 m³/h, 40 m³/h og 90 m³/h
Flere enheter kan kobles sammen

Spillvann
Versjon: 5 m³/h, 13 m³/h og 25 m³/h
Flere enheter kan kobles sammen

MODULÆRE SYSTEM

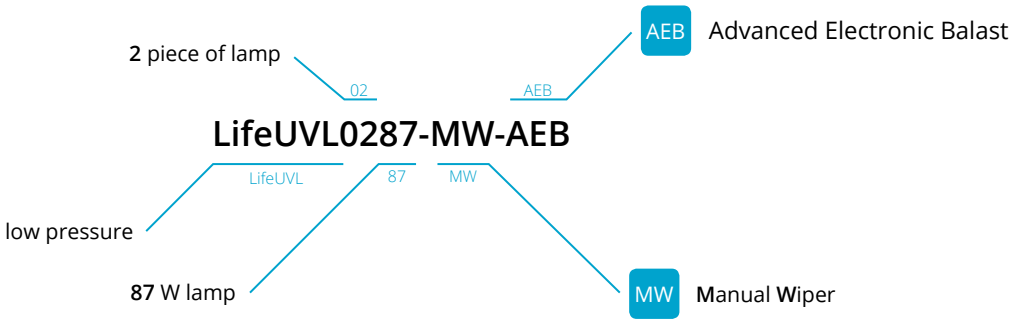
Eksempel på sammenkobling



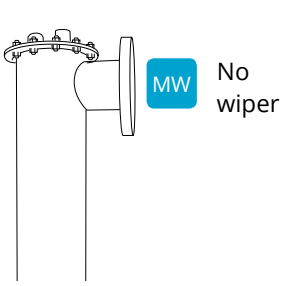


*mer informasjon på side 51

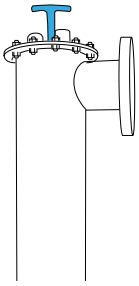
CHOOSING THE RIGHT TYPE OF LAMP:



EXPLANATION:

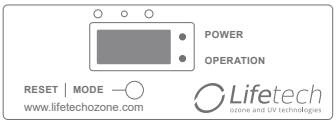


MW No wiper



MW Manual wiper

EB Electronic Ballast



AEB Advanced Electronic Ballast

1 LifeUVL® lamp

2 Quartz sleeve

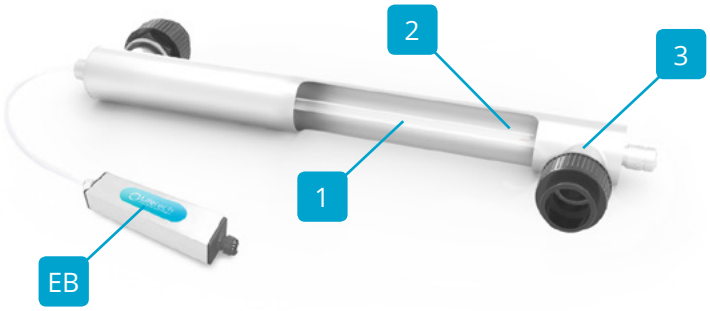
3 316L stainless steel reactor with interior UV mirror

Drinking water UV dose 40 mJ/cm² @ T10=95%
Waster water UV dose – UV dose 35 mJ/cm² @ T10=65%

Public pools and spa – UV dose 60 mJ/cm²
Private and semi-public pools and spa – UV dose 30 mJ/cm²

LOW PRESSURE UV SYSTEM
LIFEUVL® (ONE LAMP)

13 000 hours
Expected lamp lifetime



Electronic Ballast	EB	AEB
Manual wiper	NW	MW

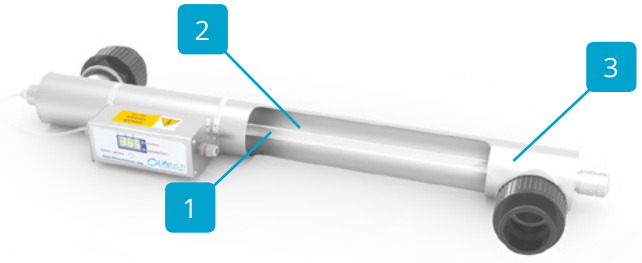
LifeUVL® lamp	1	3	316L stainless steel reactor with interior UV mirror
Quartz sleeve	2		

	conection	Drinking w. m³/hr	Pool flow m³/hr	Pool size m³	Waste w. m³/hr	Total lamp power (W) /phase
LifeUVL0148-NW-EB	2“	1.99	24	48	1.8	48 / I
LifeUVL0187-NW-EB	2“	3.60	29	87	3.3	87 / I

Displayed PVC flanges are included in the supply of the LifeUVM.

LOW PRESSURE UV SYSTEM
LIFEUVL® (ONE LAMP)

13 000 hours
Expected lamp lifetime



Advanced Electronic Ballast	EB	AEB
Manual wiper	NW	MW

LifeUVL® lamp	1	3	316L stainless steel reactor with interior UV mirror
Quartz sleeve	2		

	conection	Drinking w. m³/hr	Pool flow m³/hr	Pool size m³	Waste w. m³/hr	Total lamp power (W) /phase
LifeUVL0148-NW-AEB	2“	1.99	24	48	1.8	48 / I
LifeUVL0187-NW-AEB	2“	3.60	29	87	3.3	87 / I

Displayed PVC flanges are included in the supply of the LifeUVL.

LOW PRESSURE UV SYSTEM
LIFEUVL® (MULTI LAMPS)

13 000 hours
Expected lamp lifetime

Advanced Electronic Ballast	EB	AEB
Manual wiper	NW	MW

LifeUVL® lamp	1	3	316L stainless steel reactor with interior UV mirror
Quartz sleeve	2		

*one lamp / one ballast

	fladge DN	Drinking w. m³/hr	Pool flow m³/hr	Pool size m³	Waste w. m³/hr	Total lamp power (W) /phase
LifeUVL0287-NW-AEB		9.68	33	100	5.5	174 / I
LifeUVL0387-NW-AEB		14.33	52	240	7.1	261 / I
LifeUVL0487-NW-AEB		18.60	64	320	8.7	348 / I

LOW PRESSURE UV SYSTEM

LIFEUVL® WIPER (MULTI LAMPS)

13 000 hours

Expected lamp lifetime

Advanced Electronic Ballast	EB	AEB
Manual wiper	NW	MW

LifeUVL® lamp	1	3
Quartz sleeve	2	

316L stainless steel reactor with interior UV mirror

*one lamp / one ballast

	flange DN	Drinking w. m^3/hr	Pool flow m^3/hr	Pool size m^3	Waste w. m^3/hr	Total lamp power (W) /phase
LifeUVL0287-MW-AEB		9.68	33	100	5.5	174 / I
LifeUVL0387-MW-AEB		14.33	52	240	7.1	261 / I
LifeUVL0487-MW-AEB		18.60	64	320	8.7	348 / I


UVM
technology

OVERVIEW OF STANDARD LIFEUVM® MODELS

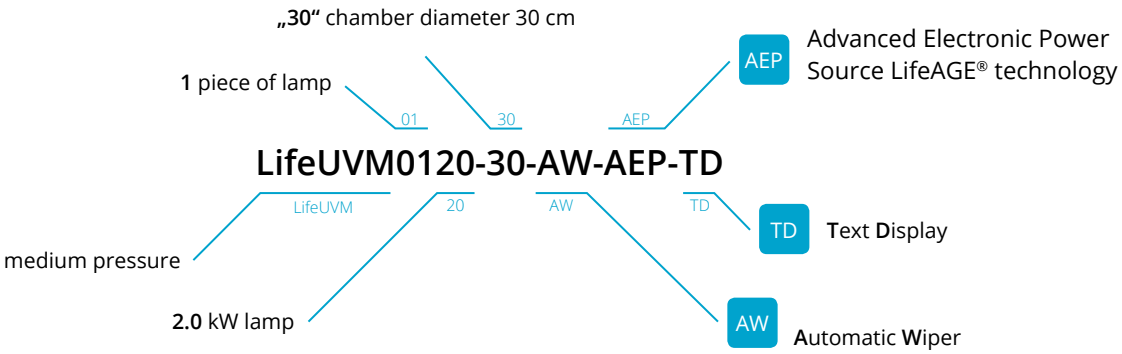
Model	TINY	CLEVER	CHARM	ECO	EXCELLENT	RUBY
Expected lifetime of LifeUVM® lamps is up to:	4 000	6 000	6 000	12 000	18 000	18 000
LifeAGE® technology		✓	✓		✓	✓
Drinking water max.flow m³/h	9	33	33	130	1 250	1 250
Waste water max.flow m³/h	2.5	9	9	33	313	313
Public pools and spa max. flow m³/h	7.5	27	27	104	1 000	1 000
Private and semi-public pools and spa max. flow (m³/h)/volume (m³)	15/70	54/250	54/250	-	-	-
Magnetic Power Source	MP					
Advanced Magnetic Power				AMP		
Advanced Electronic Power Source		AEP	AEP		AEP	AEP
Manual wiper		MW		MW	MW	MW
Automatic wiper			AW	AW	AW	AW
UV sensor					1	1
Temperature sensor			2	2	2	2
LifeUVM® Lamp	3	3	3	3	3	3
Quartz sleeve	4	4	4	4	4	4
316L Stainless Steel reactor with interior UV mirror	5	5	5	5	5	5
Ethernet connection						6

other models on request

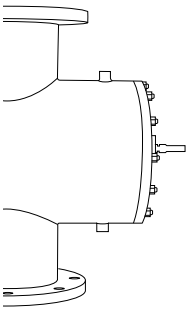
Drinking water UV dose 40 mJ/cm² @ T10=95%
Waster water UV dose – UV dose 35 mJ/cm² @ T10=65%

Public pools and spa – UV dose 60 mJ/cm²
Private and semi-public pools and spa – UV dose 30 mJ/cm²

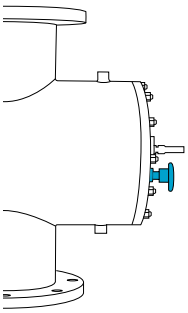
CHOOSING THE RIGHT TYPE OF LAMP:



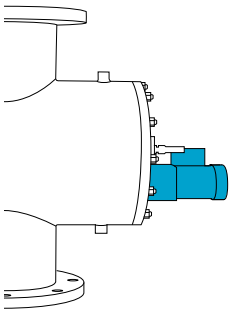
EXPLANATION:



NW No wiper

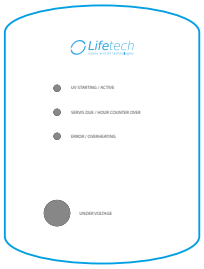


MW Manual wiper

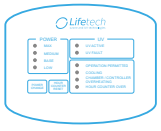


AW Automatic wiper

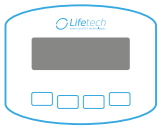
LE **LE**D Indication



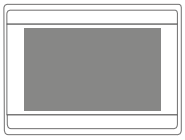
LD **L**ED **D**isplay



TD **T**ext **D**isplay



TS **T**ouch **S**creen



MP Magnetic Power Source

AMP Advanced Magnetic Power Source LifeAGE® technology

AEP Advanced Electronic Power Source LifeAGE® technology

1 UV sensor

2 Temperature sensor

3 LifeUVM® Lamp

4 Quartz sleeve

5 316L stainless steel reactor with interior UV mirror

6 Ethernet connection

THE TECHNOLOGY

We developed **unique LifeAGE® technology** exploiting advanced electronic power (AEP). Which in synergy with our profound knowledge of UV technology allows you to **enjoy the lowest operating costs available** today.

WIPER OF QUARTZ SLEEVES

It is necessary to periodically clean the surface of quartz sleeves. There are 3 options:

- Clean them manually (no wiper so you need to put the quartz sleeve out and clean it with a piece of cloth and your hand)
- Manual wiper (recommended for: private pools and jacuzzies)
- Automatic wiper (recommended for: public pools and jacuzzies, drinking and waste water plants)

	Magnetic power	LifeAGE® technology
EXPECTED UV LAMP LIFETIME:	4 000 – 12 000 hours	6 000 – 18 000 hours
OPERATING COSTS:	Higher operating costs	Lowest operating costs available today – savings estimation **30%** (compared to magnetic power) User & environmentally friendly

RETURN ON INVESTMENT

8 to 16 months

savings of fresh water & heating

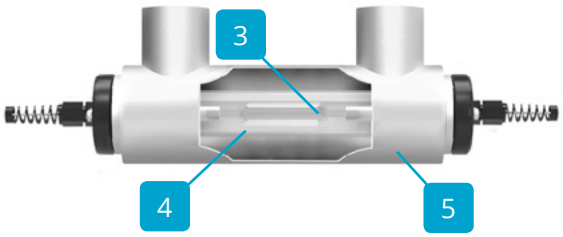
enhanced atmosphere, no chlorine smell

eventually suitable for babies and people with asthma

happier customers and new customers

MEDIUM PRESSURE UV SYSTEMS
PROFIPURE UV - LIFEUVM® - MP – LE

4 000 hours
Expected lamp lifetime



LED Indication	LE	LD	TD	TS
Magnetic Power	MP	AMP	AEP	
No wiper	NW	MW	AW	

UV sensor	~~1~~	4	Quartz sleeve
Temperature sensor	~~2~~	5	316L stainless steel reactor with interior UV mirror
LifeUVM® lamp	3	~~6~~	Ethernet connection

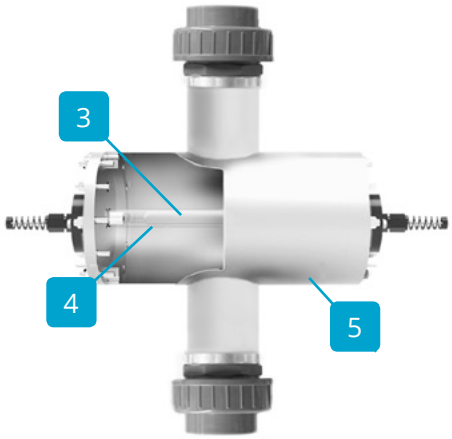
Public pools, jacuzzis and industrial water treatment	Connection	Drinking w. flow m^3/h	Pool w. flow m^3/h	Waste w. flow flow m^3/h	Total lamp power (kW) /phase
LifeUVM0103-07-NW-MP	2“	5.6	4.7	1.5	0.25 / I

Private pools and jacuzzis	Connection	Pool w. flow m^3/h	Pool capacity m^3	Total Lamp Power (kW) /phase
LifeUVM0103-07-NW-MP	2“	11	44	0.25 / I

MEDIUM PRESSURE UV SYSTEMS

TINY - LIFEUVM® - MP – LE

4 000 hours
Expected lamp lifetime



LED Indication	LE	LD	TD	TS
Magnetic Power	MP	AMP	AEP	
No wiper	NW	MW	AW	

UV sensor	1	4	Quartz sleeve
Temperature sensor	2	5	316L stainless steel reactor with interior UV mirror
LifeUVM® lamp	3	6	Ethernet connection

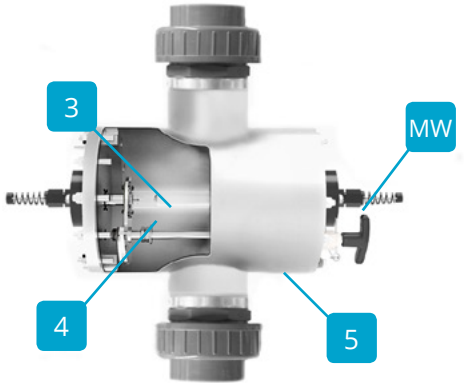
Public pools, jacuzzis and industrial water treatment	Connection	Drinking w. flow m³/h	Pool w. flow m³/h	Waste w. flow flow m³/h	Total lamp power (kW) /phase
LifeUVM0104-07-NW-MP-LE	2“	9	7.5	2.5	0.4 / I
LifeUVM0104-13-NW-MP-LE	2“	11	9	3	0.4 / I
LifeUVM0104-25-NW-MP-LE	3“	33	27	9	0.4 / I

Private pools and jacuzzis	Connection	Pool w. flow m³/h	Pool capacity m³	Total Lamp Power (kW) /phase
LifeUVM0104-07-NW-MP-LE	2“	15	70	0.4 / I
LifeUVM0104-13-NW-MP-LE	2“	18	90	0.4 / I
LifeUVM0104-25-NW-MP-LE	3“	38	250	0.4 / I

Displayed PVC flanges are included in the supply of LifeUVM Tiny.

MEDIUM PRESSURE UV SYSTEMS
CLEVER - LIFEUVM® - AEP – LE

6 000 hours
Expected lamp lifetime



LED indication
Advanced Electronic Power Source LifeAGE® technology
Manual wiper

LE LD TD TS
MP AMP AEP
NW MW AW

UV sensor 1
Temperature sensor 2
LifeUVM® lamp 3
4 Quartz sleeve
5 316L stainless steel reactor with interior UV mirror
6 Ethernet connection

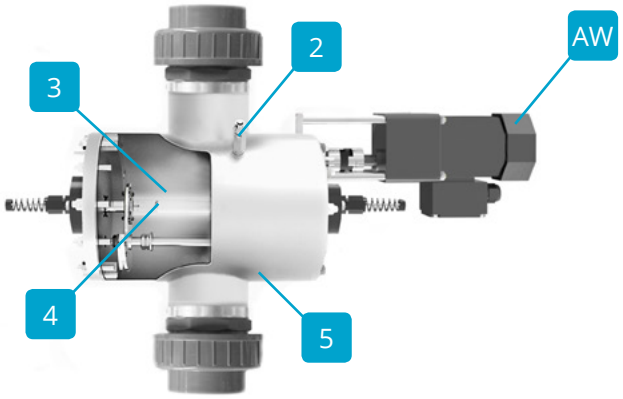
Public pools, jacuzzis and industrial water treatment	Connection	Drinking w. flow m³/h	Pool w. flow m³/h	Waste w. flow m³/h	Total lamp power (kW) /phase
LifeUVM0104-13-MW-AEP-LE	2“	11	9	3	0.4 / I
LifeUVM0104-25-MW-AEP-LE	3“	33	27	9	0.4 / I

Private pools and jacuzzis	Connection	Pool w. flow m³/h	Pool capacity m³	Total lamp power (kW) /phase
LifeUVM0104-13-MW-AEP-LE	2“	18	90	0.4 / I
LifeUVM0104-25-MW-AEP-LE	3“	38	250	0.4 / I

Displayed PVC flanges are included in the supply of LifeUVM Clever.

MEDIUM PRESSURE UV SYSTEMS
CHARM - LIFEUVM® - AEP – LD

6 000 hours
Expected lamp lifetime



LED **Display**

Advanced Electronic Power Source LifeAGE® technology

Automatic wiper

LE **LD** TD TS
MP AMP **AEP**
NW MW **AW**

UV sensor 1 — 4 Quartz sleeve
Temperature sensor 2 — 5 316L stainless steel reactor with interior UV mirror
LifeUVM® lamp 3 — 6 Ethernet connection

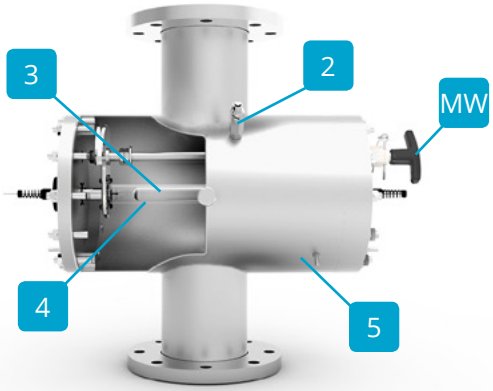
Public pools, jacuzzis and industrial water treatment	Connection	Drinking w. flow m³/h	Pool w. flow m³/h	Waste w. flow m³/h	Total lamp power (kW) /phase
LifeUVM0104-13-AW-AEP-LD	2“	11	9	3	0.4 / I
LifeUVM0104-25-AW-AEP-LD	3“	33	27	9	0.4 / I
LifeUVM0106-25-AW-AEP-LD	3“	40	33	11	0.6 / I

Private pools and jacuzzis	Connection	Pool w. flow m³/h	Pool capacity m³	Total Lamp Power (kW) /phase
LifeUVM0104-13-AW-AEP-LD	2“	18	90	0.4 / I
LifeUVM0104-25-AW-AEP-LD	3“	38	250	0.4 / I
LifeUVM0106-25-AW-AEP-LD	3“	42	270	0.6 / I

Displayed PVC flanges are included in the supply of LifeUVM Charm.

MEDIUM PRESSURE UV SYSTEMS
ECO - LIFEUVM® - AMP – LD

12 000 hours
Expected lamp lifetime



LED Display
Advanced Magnetic Power Source LifeAGE® technology
Manual wiper

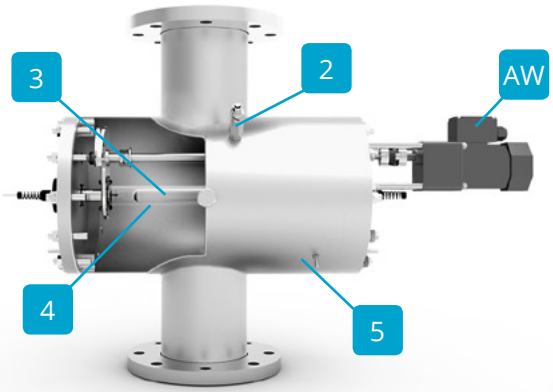
LE **LD** TD TS
MP **AMP** AEP
NW **MW** AW

UV sensor ~~1~~ **4** Quartz sleeve
Temperature sensor **2** **5** 316L stainless steel reactor with interior UV mirror
LifeUVM® lamp **3** ~~6~~ Ethernet connection

	Flange DN	Drinking w. flow m³/h	Pool w. flow m³/h	Waste w. flow m³/h	Total lamp power (kW) /phase
LifeUVM0110-13-MW-AMP-LD	80	27	22	7	1.0 / I
LifeUVM0120-13-MW-AMP-LD	80	37	30	9	2.0 / II
LifeUVM0110-25-MW-AMP-LD	125	45	36	11	1.0 / I
LifeUVM0120-25-MW-AMP-LD	125	90	72	23	2.0 / II
LifeUVM0120-30-MW-AMP-LD	125	120	104	33	2.0 / II

MEDIUM PRESSURE UV SYSTEMS
ECO - LIFEUVM® - AMP – LD

12 000 hours
Expected lamp lifetime



LED Display
Advanced Magnetic Power Source LifeAGE® technology
Automatic wiper

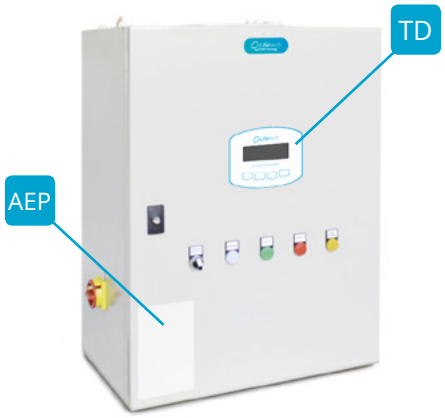
LE **LD** TD TS
MP **AMP** AEP
NW MW **AW**

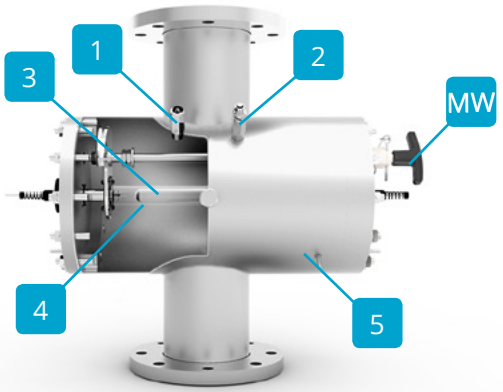
UV sensor — 1 (crossed out) — 4 — Quartz sleeve
Temperature sensor — 2 — 5 — 316L stainless steel reactor with interior UV mirror
LifeUVM® lamp — 3 — 6 (crossed out) — Ethernet connection

	Flange DN	Drinking w. flow m³/h	Pool w. flow m³/h	Waste w. flow m³/h	Total lamp power (kW) /phase
LifeUVM0110-13-AW-AMP-LD	80	27	22	7	1.0 / I
LifeUVM0120-13-AW-AMP-LD	80	37	30	9	2.0 / II
LifeUVM0110-25-AW-AMP-LD	125	45	36	11	1.0 / I
LifeUVM0120-25-AW-AMP-LD	125	90	72	23	2.0 / II
LifeUVM0120-30-AW-AMP-LD	125	120	104	33	2.0 / II

MEDIUM PRESSURE UV SYSTEMS
EXCELLENT - LIFEUVM® - AEP - TD

18 000 hours
Expected lamp lifetime





Text Display
Advanced Electronic Power Source LifeAGE® technology
Manual wiper

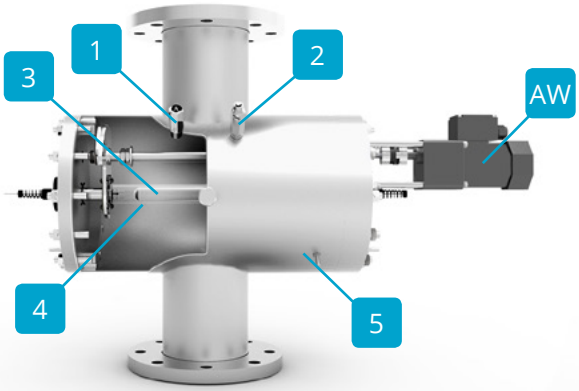
LE LD **TD** TS
MP AMP **AEP**
NW **MW** AW

UV sensor **1** **4** Quartz sleeve
Temperature sensor **2** **5** 316L stainless steel reactor with interior UV mirror
LifeUVM® lamp **3** ~~8~~ Ethernet connection

	Flange DN	Drinking w. flow m³/h	Pool w. flow m³/h	Waste w. flow m³/h	Total lamp power (kW) /phase
LifeUVM0110-13-MW-AEP-TD	80	27	22	7	1.0 / I
LifeUVM0110-25-MW-AEP-TD	125	45	36	11	1.0 / I
LifeUVM0120-25-MW-AEP-TD	125	90	72	23	2.0 / I
LifeUVM0120-30-MW-AEP-TD	125	120	104	33	2.0 / I
LifeUVM0130-30-MW-AEP-TD	150	190	152	48	3.0 / I
LifeUVM0130-40-MW-AEP-TD	200	320	256	80	3.0 / I
LifeUVM0220-40-MW-AEP-TD	250	370	296	93	4.0 / III
LifeUVM0230-40-MW-AEP-TD	250	450	360	113	6.0 / III
LifeUVM0330-40-MW-AEP-TD	250	580	480	150	9.0 / III

MEDIUM PRESSURE UV SYSTEMS
EXCELLENT - LIFEUVM® - AEP - TD

18 000 hours
Expected lamp lifetime



Text Display	LE	LD	**TD**	TS
Advanced Electronic Power Source LifeAGE® technology		MP	AMP	**AEP**
Automatic wiper		NW	MW	**AW**

UV sensor	**1**	**4**	Quartz sleeve
Temperature sensor	**2**	**5**	316L stainless steel reactor with interior UV mirror
LifeUVM® lamp	**3**	~~8~~	Ethernet connection

	Flange DN	Drinking w. flow m³/h	Pool w. flow m³/h	Waste w. flow m³/h	Total lamp power (kW) /phase
LifeUVM0110-13-AW-AEP-TD	80	27	22	7	1.0 / I
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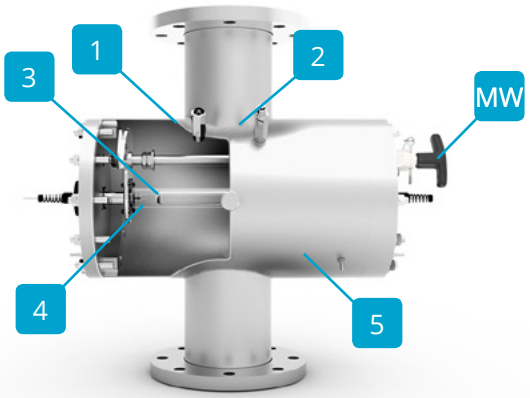
LifeUVM0120-25-AW-AEP-TD	125	90	72	23	2.0 / I
LifeUVM0120-30-AW-AEP-TD	125	120	104	33	2.0 / I
LifeUVM0130-30-AW-AEP-TD	150	190	152	48	3.0 / I
LifeUVM0130-40-AW-AEP-TD	200	320	256	80	3.0 / I
LifeUVM0220-40-AW-AEP-TD	250	370	296	93	4.0 / III
LifeUVM0230-40-AW-AEP-TD	250	450	360	113	6.0 / III
LifeUVM0330-40-AW-AEP-TD	250	580	480	150	9.0 / III
LifeUVM0430-45-AW-AEP-TD	300	800	640	200	12.0 / III
LifeUVM0430-50-AW-AEP-TD	350	900	720	225	12.0 / III
LifeUVM0530-50-AW-AEP-TD	400	1 100	880	275	15.0 / III
LifeUVM0630-50-AW-AEP-TD	400	1 250	1 000	313	18.0 / III

MEDIUM PRESSURE UV SYSTEMS
RUBY - LIFEUVM® - AEP - TS

18 000 hours
Expected lamp lifetime



Touch screen
Advanced Electronic Power Source LifeAGE® technology
Manual wiper

LE LD TD **TS**
MP AMP **AEP**
NW **MW** AW

UV sensor **1** **4** Quartz sleeve
Temperature sensor **2** **5** 316L stainless steel reactor with interior UV mirror
LifeUVM® lamp **3** **6** Ethernet connection

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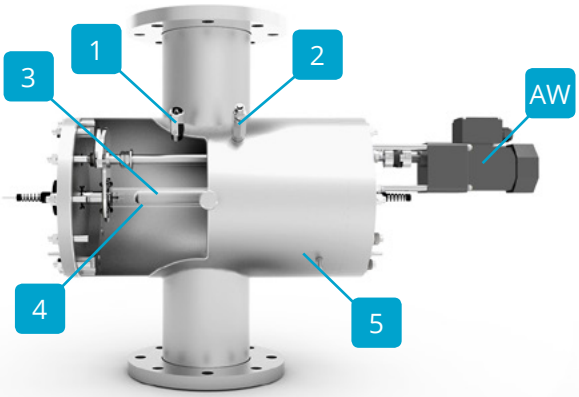
MEDIUM PRESSURE UV SYSTEMS
RUBY - LIFEUVM® - AEP - TS

18 000 hours
Expected lamp lifetime



Touch screen — LE LD TD **TS**

Advanced Electronic Power Source LifeAGE® technologie — MP AMP **AEP**

Automatic wiper — NW MW **AW**

UV sensor **1** — **4** Quartz sleeve

Temperature sensor **2** — **5** 316L stainless steel reactor with interior UV mirror

LifeUVM® lamp **3** — **6** Ethernet connection

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LifeUVM0130-30-AW-AEP-TS	150	190	152	48	3.0 / I
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OZONE WATER
TREATMENT

OZONE WATER TREATMENT

EXCLUSIVE 2.ID AND 4.ID

Progressive, solid, elegant. For those who choose tradition of constant innovation.

OZONE IS THE SOLUTION, EXCLUSIVE IS THE WAY

Ozone is **hundreds of times more powerful** than chemical treatments.

Ozone is even **effective against chlorine resistant organisms,** algae, bacteria and viruses.

= Crystal clear natural water, free from toxicity

Chloramines are toxic:
Chlorine water treatment + pool water = chlorine + ammonia (urea, sweat)
= **Chloramines**

Chloramines **+ Ozone**
= Crystal clear natural water, free from toxicity

- **Ozone prevents from chloramines**
- **Ozone destroys chloramines**

Ozone is making your water crystal clear, odor free and safe again.

THE NEW 6TH+ GENERATION

Human kind has gone a long way from the first usage of ozone for water treatment in 1893 in the Nether-lands. After this breakthrough moment more than 12 decades ago, we can now present you the 6th+ evolved generation of ozone units called IDEP. Based on our experience we can now optimize this Exclusive water treatment according to your needs easily.

TURN-KEY SOLUTION

Is your single source for design, production and delivery of advanced water treatment technolo-gies.

ABOUT THE .IDEP - SYSTEM

Intelligent Design is where the advantages of ozone treatment meet with a practical engineering mind. EP is Economical Plastic version of ID ozone system.

EP is a complex technology designed for water care of indoor and outdoor pools, jacuzzis and spa and also for drinking water purification in an economy package. All components are on one single platform (including a booster pump and an Integrated air dryer – which is always necessary for optimal performance).

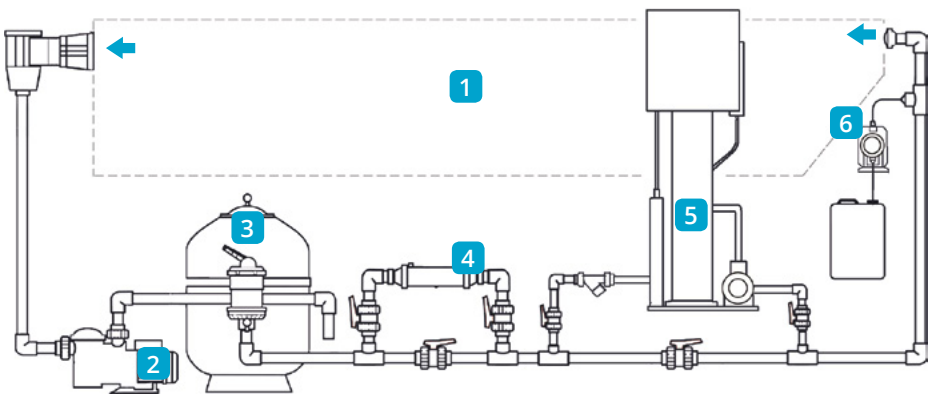
NO NEED OF ADDITIONAL INVESTMENTS

It is made to be compatible with all of the present technology schemes you may use. It is installed in a slip stream. Pre-prepared for the montage waiting just for you to plug it in.

SAFETY

After the job is done, ozone is dissolved back into pure oxygen. In any case - our Intelligent Design - Exclusive ozone production system operates under full vacuum. Because we want to make sure, due to the user safety, it cannot leak out.

Model	Ozone output (gO_3/h)	Pool size (m^3)		Power (kW)	Dimensions (mm)	Weight (kg)
		Private pool	Public pool			
Exclusive 2.ID	2.0	up to 200	up to 100	0.9	550x490x1 350	55
Exclusive 4.ID	4.0	up to 400	up to 200	1.0	550x490x1 350	57



1 - POOL
2 - CIRCULATION PUMP
3 - FILTER
4 - HEAT EXCHANGER
5 - OZONIZING UNIT EXCLUSIVE
6 - pH ADJUSTMENT

OZONE WATER TREATMENT

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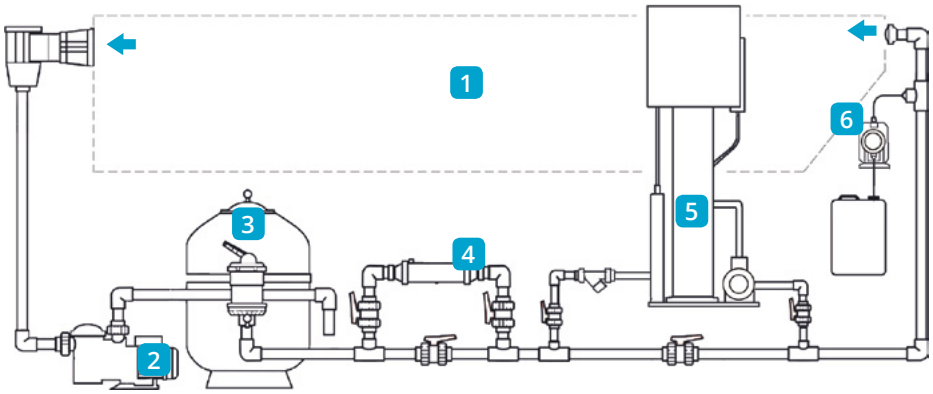

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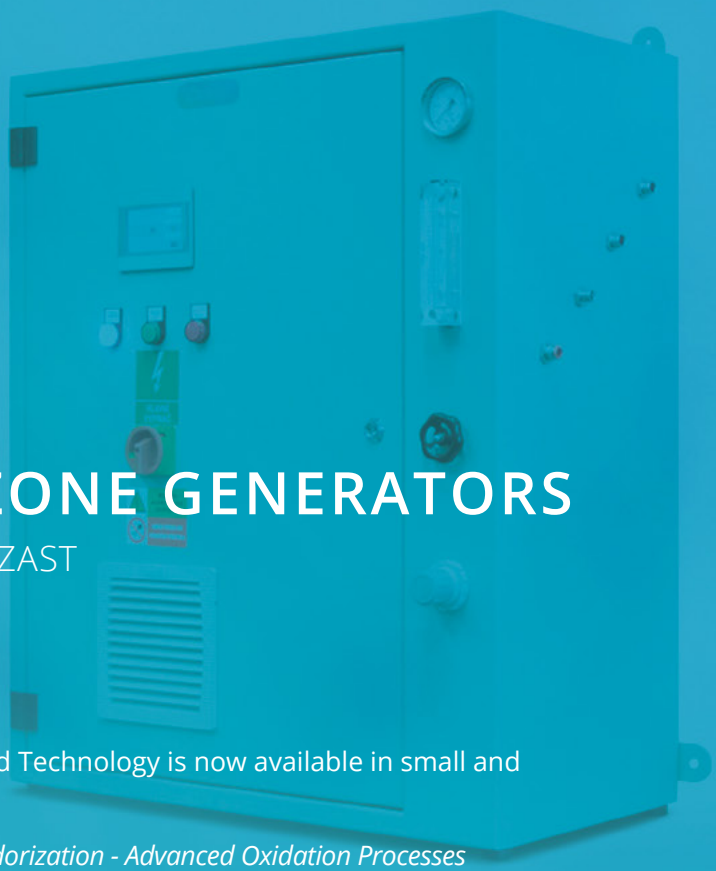
OZONE WATER TREATMENT



OZAST® - COMPACT OZONE GENERATORS

Compact and Reliable Ozone Generator OZAST
Oxygen or Dry Air Fed

Proven for many years in industrial use. Ozone Advanced Technology is now available in small and medium size ozone generators.

Disinfection - Removal of Contaminants - Decolouration - Deodorization - Advanced Oxidation Processes

APPLICATION

DRINKING WATER – disinfection, removal of iron, manganese, sulphides, nitrites, COD, pesticides and other pollutants, deodorization, taste enhancement
BOTTLED WATER, BEWERAGES – water treatment, rinsing of bottles, shelf live prolongation
PROCESS WATER – disinfection, deodorization, decolouration, COD reduction, reduction of contaminants, water recycling, CIP processes
WASTE WATER – disinfection, reduction of colour and turbidity, deodorization, COD and AOX reduction, removal of contaminants as, e.g. phenols, pesticides, detergents, poly cyclic hydrocarbons, chlorinated hydrocarbons incl. PCDD/F (dioxins/furans), cyanides, sulphides, petrochemical contaminants etc.
POOL WATER – disinfection, reduction of organic pollutants incl. chloramines and trihalomethanes
BALLAST WATER – biocide treatment
GROUNDWATER – remediation, removal of pollutants
COOLING TOWERS – biocide treatment, removal of Legionella, algae and biofilms
AQUACULTURE – disinfection, reduction of dissolved organics, water quality improvement

AOP - Advanced Oxidation Process

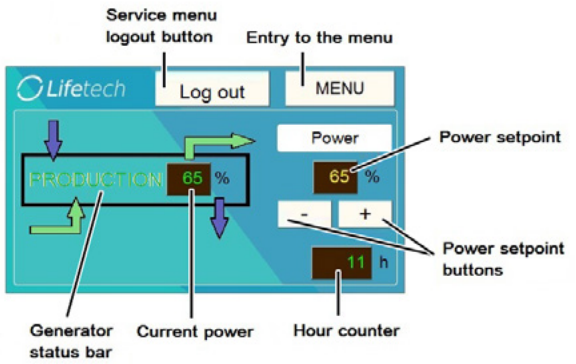
High oxidation potential of ozone can be greatly enhanced by its combination with UV treatment or hydrogen peroxide dosing, i.e. by an approach known as Advanced Oxidation or Ultraviolet Oxidation.Uses both processes and supplies its own LifeOX® technology based on optimized synergic action of ozone and UV radiation.

TECHNICAL FEATURES

- Frequency: 50/60 Hz
- Voltage OZAST® 50 and OZAST® 100: 1 x 230 VAC
- Voltage OZAST® 200-750: 3 x 400 VAC
- Feed gas inlet pressure: 3 to 8 bar g
- Cooling water pressure: 2 to 6 bar g
- Cooling water inlet temperature: 20°C
- Design altitude: < 1 000 m.a.s.l.
- PLC Allen Bradley
- Option: Modbus, lightning protection

air humidity up to 65% RH, no condensation; temperature from +5°C to +40°C

Equipped with user friendly touch screen control



MATERIALS

In contact with ozone:
stainless steel ANSI 316L, Teflon, PVDF, Viton

In contact with cooling water:
stainless steel ANSI 304/316L, brass, polyethylene

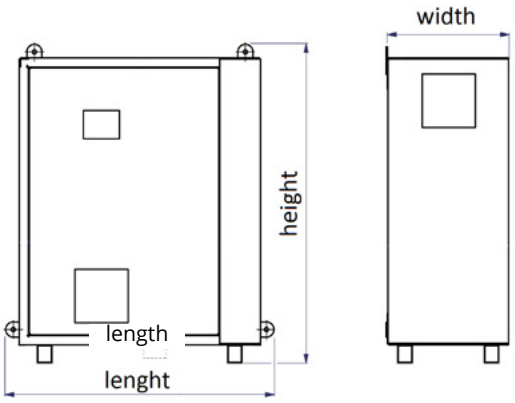
Enclosure: powder coated mild steel

SPECIFICATIONS

OZAST® MODEL	OXYGEN FED			AIR FED				
	Ozone Production (g/h) - 10 wt%	Oxygen Flow (Nm^3/h)	Outlet Pressure (barg)	Ozone Production (g/h) – 3 wt%	Air Flow (Nm^3/h)	Outlet Pressure (barg)	Cooling Water (m^3/h)	Power Consumption (kW)
OZAST® 50	50	0.35	< 1	35	0.9	< 2	0.1	0.7
OZAST® 100	100	0.7	< 1	70	1.8	< 2	0.2	1.3
OZAST® 200	200	1.4	< 1	140	3.6	< 2	0.4	2.6
OZAST® 300	300	2.1	< 1	210	5.4	< 2	0.6	3.9
OZAST® 500	500	3.5	< 1	350	9.0	< 2	1	6.5
OZAST® 750	750	5.2	< 1	525	13.5	< 2	1.5	9.8

Optimal concentration range is between 6 wt% and 12 wt% when fed with oxygen and 3 wt% to 5 wt% when fed with dry air

OZAST® Model	L x H x W (mm)	Weight (kg)
OZAST® 50	860 x 1 000 x 400	115
OZAST® 100	860 x 1 000 x 400	121
OZAST® 200	960 x 1 000 x 400	145
OZAST® 300	1 000 x 1 900 x 400	175
OZAST® 500	1 000 x 1 900 x 500	200
OZAST® 750	1 200 x 1 900 x 700	250



OZONE WATER TREATMENT

OZAST®

Oxygen or Dry Air Fed Ozone Generators

Disinfection - Removal of contaminants Oxidation - Advanced oxidation - Decoloration - Deodorization

APPLICATION

DRINKING WATER – disinfection, removal of iron, manganese, sulphides, nitrites, COD, pesticides and other pollutants, deodorization, taste enhancement

BOTTLED WATER, BEWERAGES – water treatment, rinsing of bottles, shelf live prolongation

PROCESS WATER – disinfection, deodorization, decolouration, COD reduction, reduction of contaminants, water recycling, CIP processes

WASTE WATER – disinfection, reduction of colour and
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POOL WATER – disinfection, reduction of organic pollutants incl. chloramines and trihalomethanes

BALLAST WATER – biocide treatment

GROUNDWATER – remediation, removal of pollutants

OZAST® Highlights

- Robust industrial quality for reliability and long service life
- Low specific energy consumption and high ozone concentration due to the LIFETECH's Advanced Discharge Elements and state of the art IGBT power supply units
- Wide range of ozone production from 0.5 kgO_3/h
- Continuous control of ozone production
- PLC with user friendly interface and optional Ethernet bus
- Low maintenance and service personnel requirements

Advanced Oxidation

High oxidation potential of ozone can be greatly enhanced by its combination with UV treatment or hydrogen peroxide dosing, i.e. by an approach known as Advanced Oxidation or Ultraviolet Oxidation. Uses both processes and supplies its own LifeOX® technology based on optimized synergic action of ozone and UV radiation.

Tailored Solutions

Has more than thirty years experience in ozone technology design and in turn-key delivery of ozone plants. Is your single source for design, production, and turn-key delivery of complete ozone plant technology

Material

In contact with ozone: ANSI 316L, PTFE, PVDF, Viton
In contact with water: ANSI 304/316L, brass, PE
Enclosure: powder coated mild steel

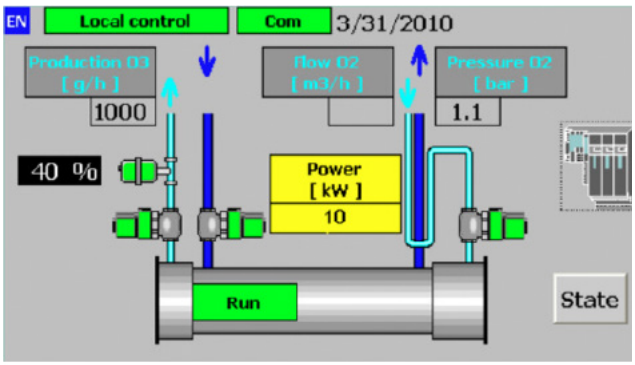
Features

Feed gas pressure:
3 to 8 bar

Cooling water pressure / temperature:
2 to 6 bar / +12°C to +20°C (54°F to 68°F)

Power requirements:
3x400V/50Hz+N+PE or 480V/60Hz/3ph + neutral

Ambient conditions:
RH<65%, +5°C to +40°C

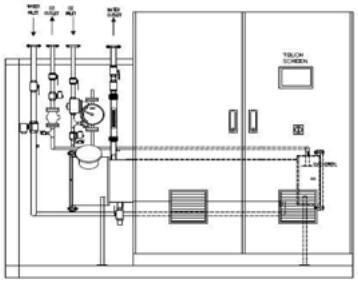


7-inch touch screen

OZAST® MODEL	OXYGEN FED					AIR FED			
	Ozone Production		Oxygen Flow		Outlet	Ozone	Air	Outlet	Cooling
	10wt%	6wt%	10wt%	6wt%	Pressure	Production	Flow	Pressure	Water
	(kgO_3/h)		(Nm^3/h)		(barg)	(g/h) – 3 wt%	(Nm^3/h)	(barg)	(m^3/h)
OZAST® 01k	0.8	0.1	5.5	11	- 0.7	0.5	13	- 1.5	1.0
OZAST® 02k	1.3	1.7	9	20	- 0.7	0.7	18	- 1.5	1.9
OZAST® 03k	2.0	2.6	14	29	- 0.7	1.1	28	- 1.5	2.8
OZAST® 04k	2.6	3.3	18	39	- 0.7	1.5	39	- 1.5	3.7
OZAST® 05k	4.0	5.0	27	58	- 0.7	2.2	57	- 1.5	5.6
OZAST® 10k	8.1	10.0	56	119	- 0.7	4.5	116	- 1.5	11.5

Remote Controls and Alarms

- *Supply ON/OFF*
- *RESET*
- *Gas valves open*
- *Enable REMOTE*
- *Production STOP*
- *Collective ALARM*

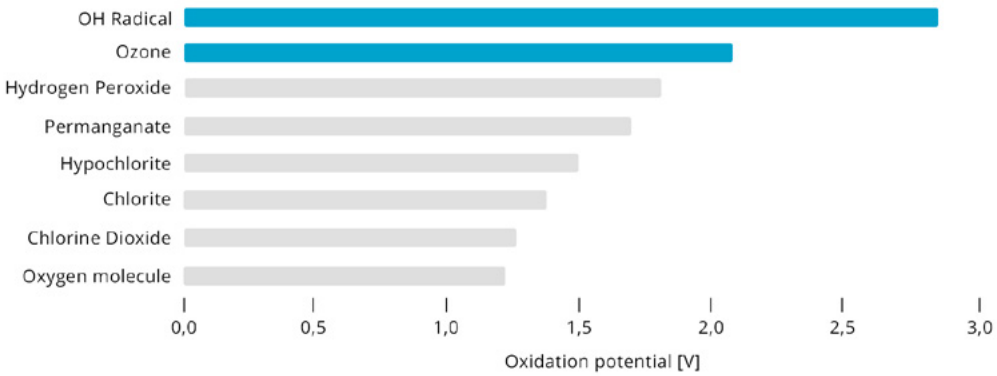



LifeOX®
inside

ADVANCED OXIDATION PROCESS (AOP)

The Advanced Oxidation Process (AOP) is the best available water treatment technology now. AOP uses OH-radicals with a considerably higher oxidation potential compared to other oxidants for water treatment.

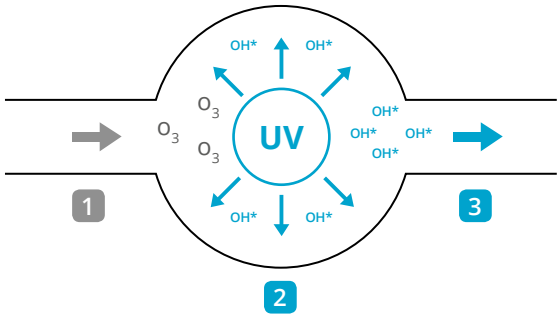
When dissolved ozone (1) is irradiated by UV radiation in a UV reactor (2), then OH- radicals are created. Lifetime of OH-radicals is extremely short, the entire treatment process takes place inside of the UV reactor, treated water (3) is without OH-radicals.

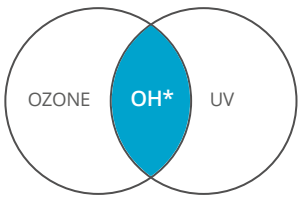


OH-radicals have higher oxidation potential than hydrogen peroxide or ozone. The higher the oxidation potential, the better the disinfection and purification.

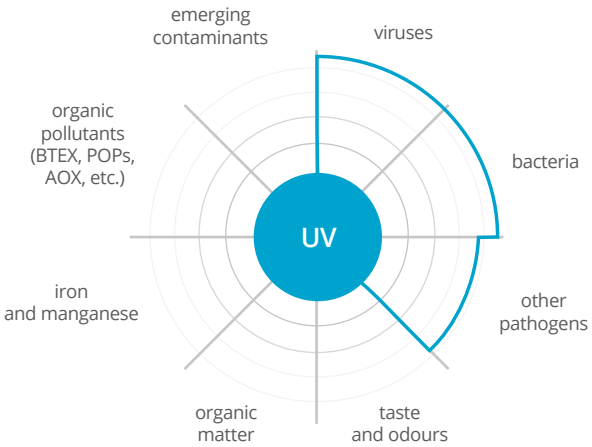
AOPs have proved to be the most efficient solution for the removal of those toxic and persistent compounds such as: carbamazepine, ibuprofene, hormones, geosmin, mib (2-methylisoborneol), 1.4 dioxane, mtbe (methyl tertiary-butyl ether), ndma (n-nitroso-dimethylamine), atrazine, diuron, diclofenac,...

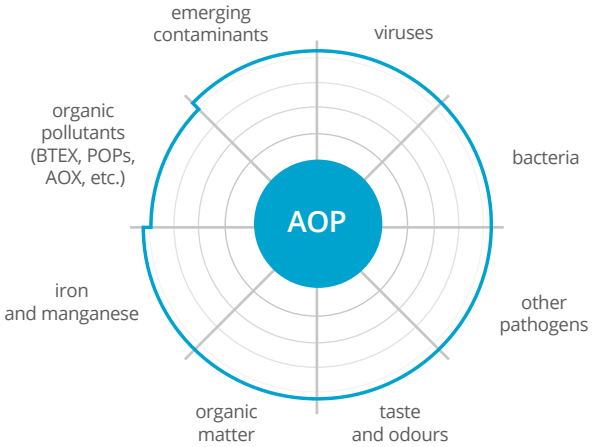
Traditional use of ozone or UV technology alone cannot guarantee complete removal of water micropollutants. The AOP process is ideal for their removal.





COMPARISON OF MATTERS AND POLLUTANTS REMOVAL BY TECHNOLOGY





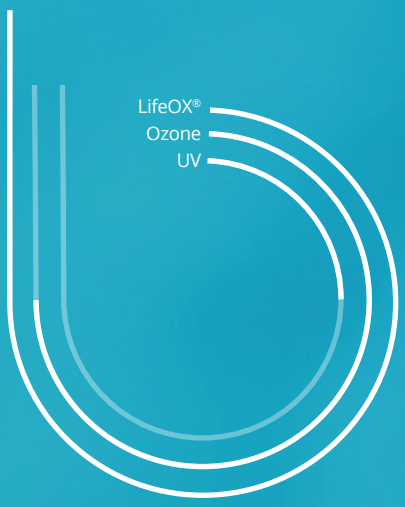
LifeOX®
inside

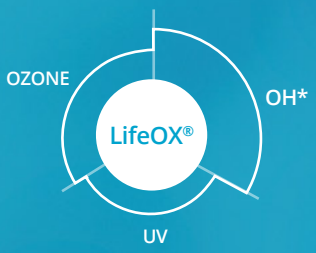
COMBI OZONE/UV 2.EP AND 4.EP

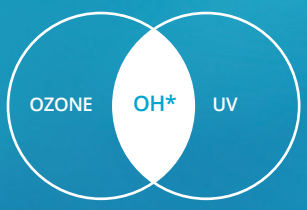
Your choice of compact, solid and well-engineered product.

LIFEOX® INSIDE

We enhanced the high oxidation potential of ozone and UV radiation beyond its limits. By making them work together synergically we can now experience the completely new perspective of futuristic water treatment. Unique technology.







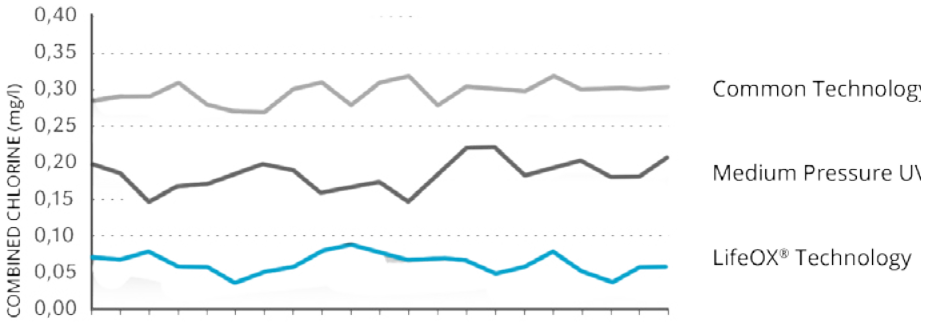
Turn-Key solution

Is your single source for design, production and delivery of advanced water treatment technology.

HIGHLIGHTS

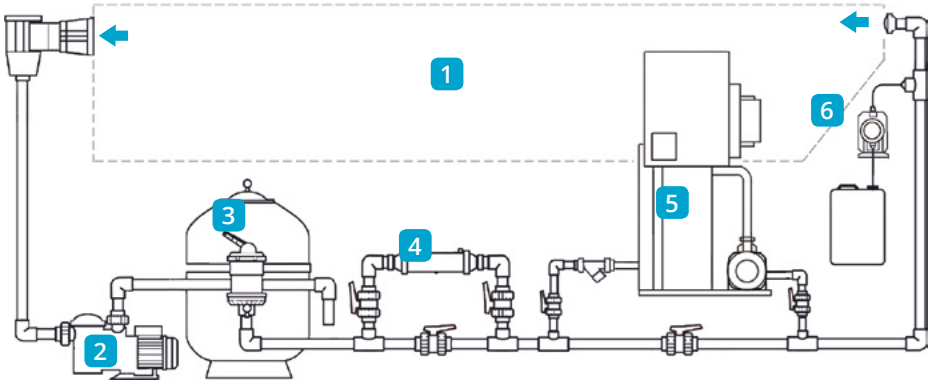
- Easy installation
- Compact design
- Intelligent design
- Precisely adjusted UV system
- Unique continuous output regulation from 10% to 100%
- Highly effective corona discharge ozone generator with integrated air dryer

Safety and efficiency of the technology proven in the market during 15 years



Highly efficient Advanced Oxidation Process for water treatment and reduction of combined chlorine.

Model	Ozone output (gO_3/h)	Pool size (m^3)		Power (kW)	Dimensions (mm)	Weight (kg)
		Private pool	Public pool			
Combi Ozone/UV 2.EP	2.0	up to 200	up to 100	1	550x490x1 080	59
Combi Ozone/UV 4.EP	4.0	up to 400	up to 200	1.1	550x490x1 080	60



1 - POOL
2 - CIRCULATION PUMP
3 - FILTER
4 - HEAT EXCHANGER
5 - COMBI OZONE/UV-IDEP
6 - pH ADJUSTMENT

ALSO PRODUCES:

- Advanced Oxidation Technology for all types of swimming pools: private or Olympic.
- Water flow per AOP unit: up to 1 250 m^3/h.

LifeOX®
inside

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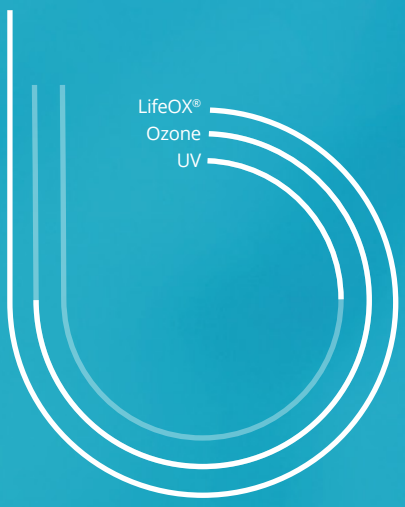

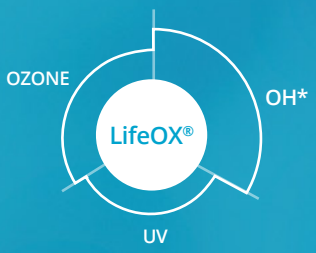

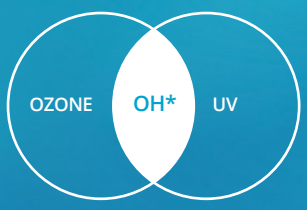

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HIGHLIGHTS

- Easy installation
- Compact design
- Made of solid 316L stainless steel – time proven quality
- Precisely adjusted UV system
- Unique continuous output regulation from 10% to 100%
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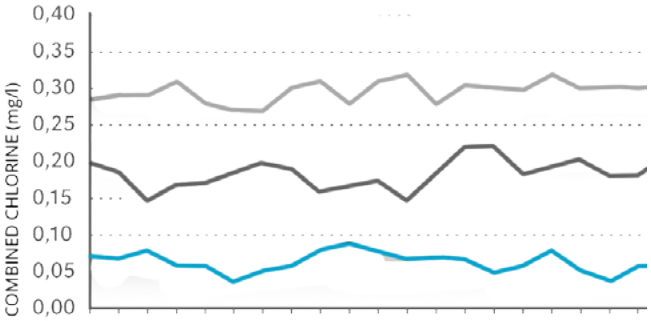
Safety and efficiency of the technology proven in the market during 15 years



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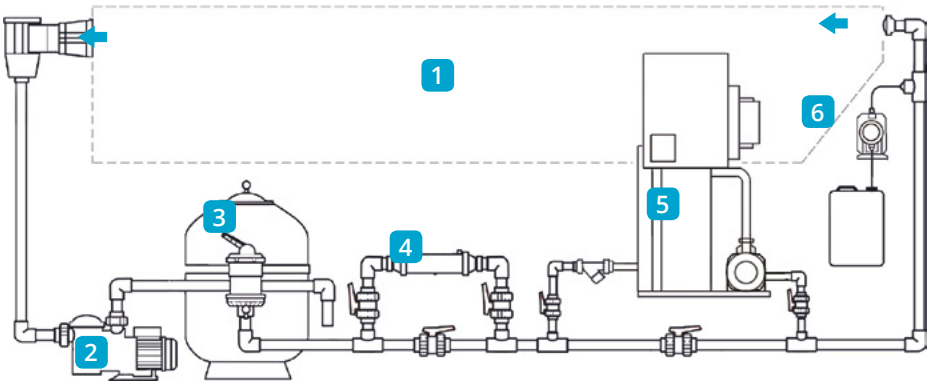

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- Water flow per AOP unit: up to 1 250 m^3/h.

LifeOX® inside

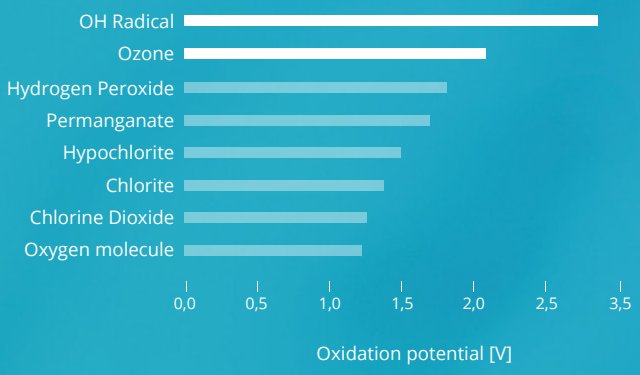
Lifetech
ozone & UV technologies

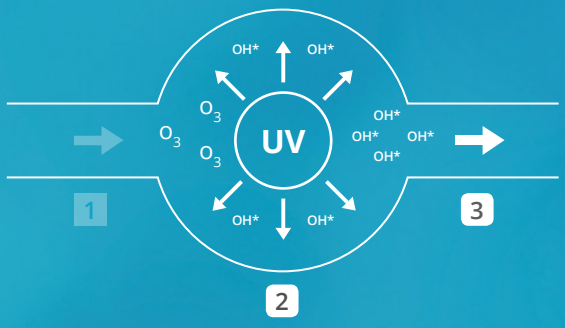
LifeOX® M EP

The Most Compact Ozone and Medium UV AOP System

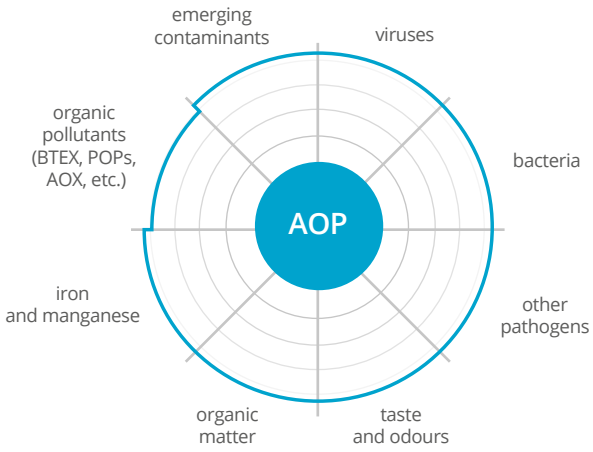
NEW DESIGN OF WATER PLANT DISINFECTION AND OXIDATION STAGE

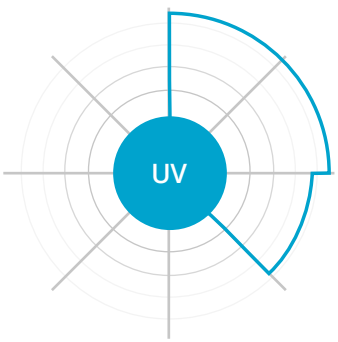
The **A**dvanced **O**xidation **P**rocess (AOP) is the best available water treatment technology now. AOP uses OH-radicals with a considerably higher oxidation potential compared to other oxidants for water treatment. When dissolved ozone (1) is irradiated by UV radiation in a UV reactor (2), then OH- radicals are created. Lifetime of OH-radicals is extremely short, the entire treatment process takes place insde of the UV reactor, Treated water (3) is without OH-radicals.





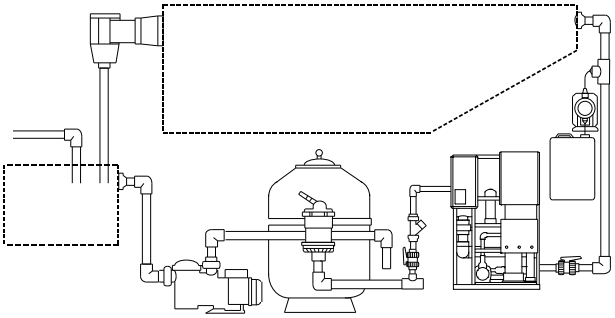
AOPs have proved to be the most efficient solution for the removal of those toxic and persistent compounds such as: carbamazepine, ibuprofene, hormones, geosmin, mib (2-methylisoborneol), 1.4 dioxane, mtbe (methyl tertiary-butyl ether), ndma (n-nitroso-dimethylamine), atrazine, diuron, diclofenac,...





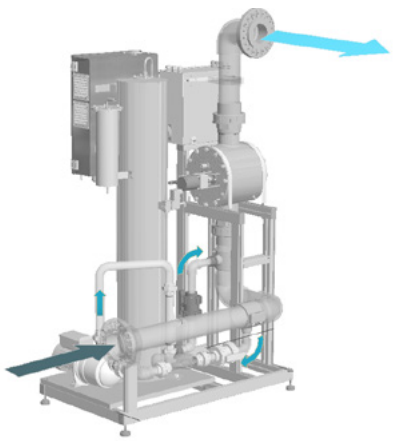
Traditional use of ozone or UV technology alone cannot guarantee complete removal of water micropollutants. The AOP process is ideal for removing them.

Standard Ozone Disinfection Stage



Advantages of the LifeOX® M system

- The highest disinfection and the most powerful oxidation of treated water
- Significantly less space required in comparision to Standard Ozone Disinfection Stage
- Extremely short time to install – Plug-In



Standard model	Poll water flow	Waste water flow	Dimensions (mm)	Weight (kg)
LifeOX® M10	up to 10 m³/h	up to 5 m³/h	985x847x1 202	100kg
LifeOX® M40	up to 40 m³/h	up to 13 m³/h	1 110x857x1 472	140kg
LifeOX® M90	up to 90 m³/h	up to 25 m³/h	1 434x1 048x1 516	200kg

Multiples thanks to the modular system

New Compact Disinfection and Oxidation Stage

SMALL CHANGE,
BIG DIFFERENCE

LifeOX® inside

Lifetech
ozone & UV technologies

LifeOX® M ID

The Most Compact Ozone and Medium UV AOP System

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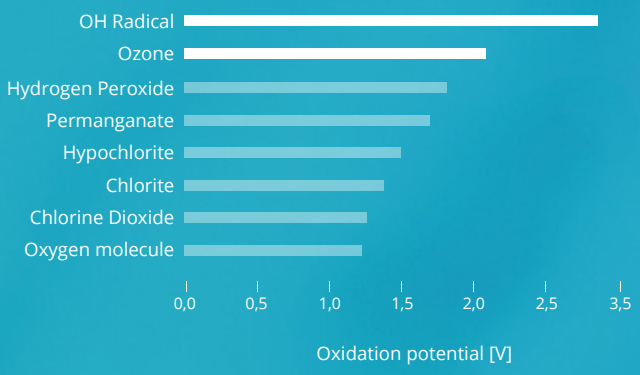

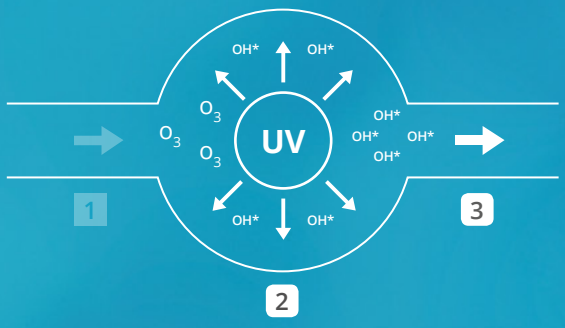

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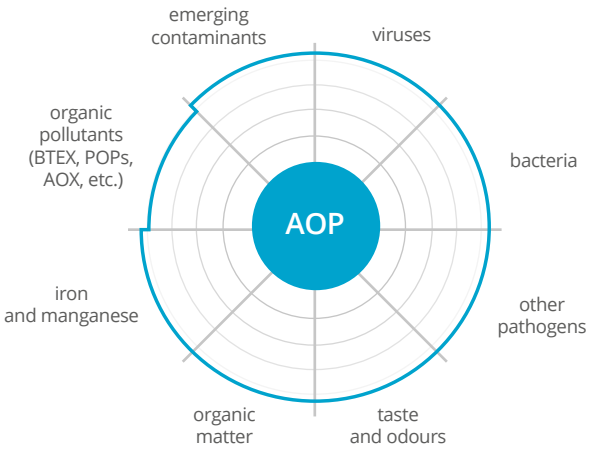

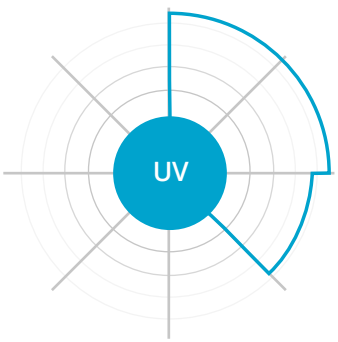

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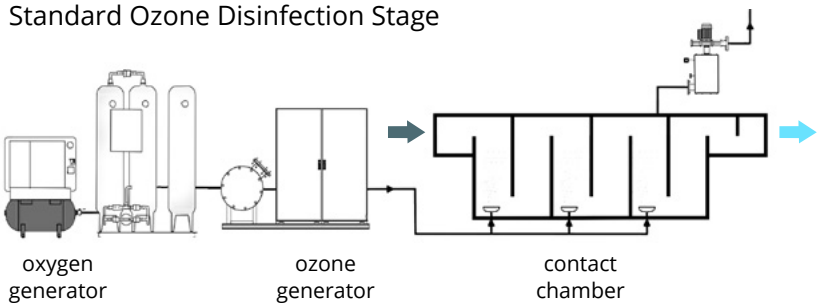
Standard Ozone Disinfection Stage



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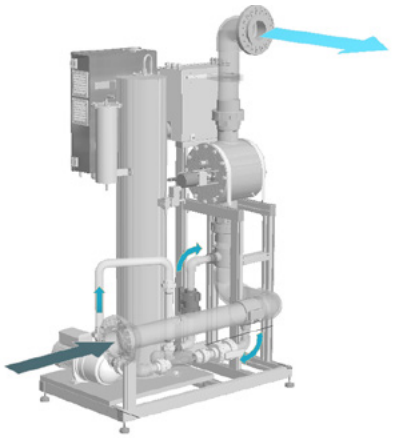

Standard model	drinking water flow	Dimensions (mm)	Weight (kg)
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LifeOX® M90	up to 90 m³/h	1 434x1 048x1 516	200kg

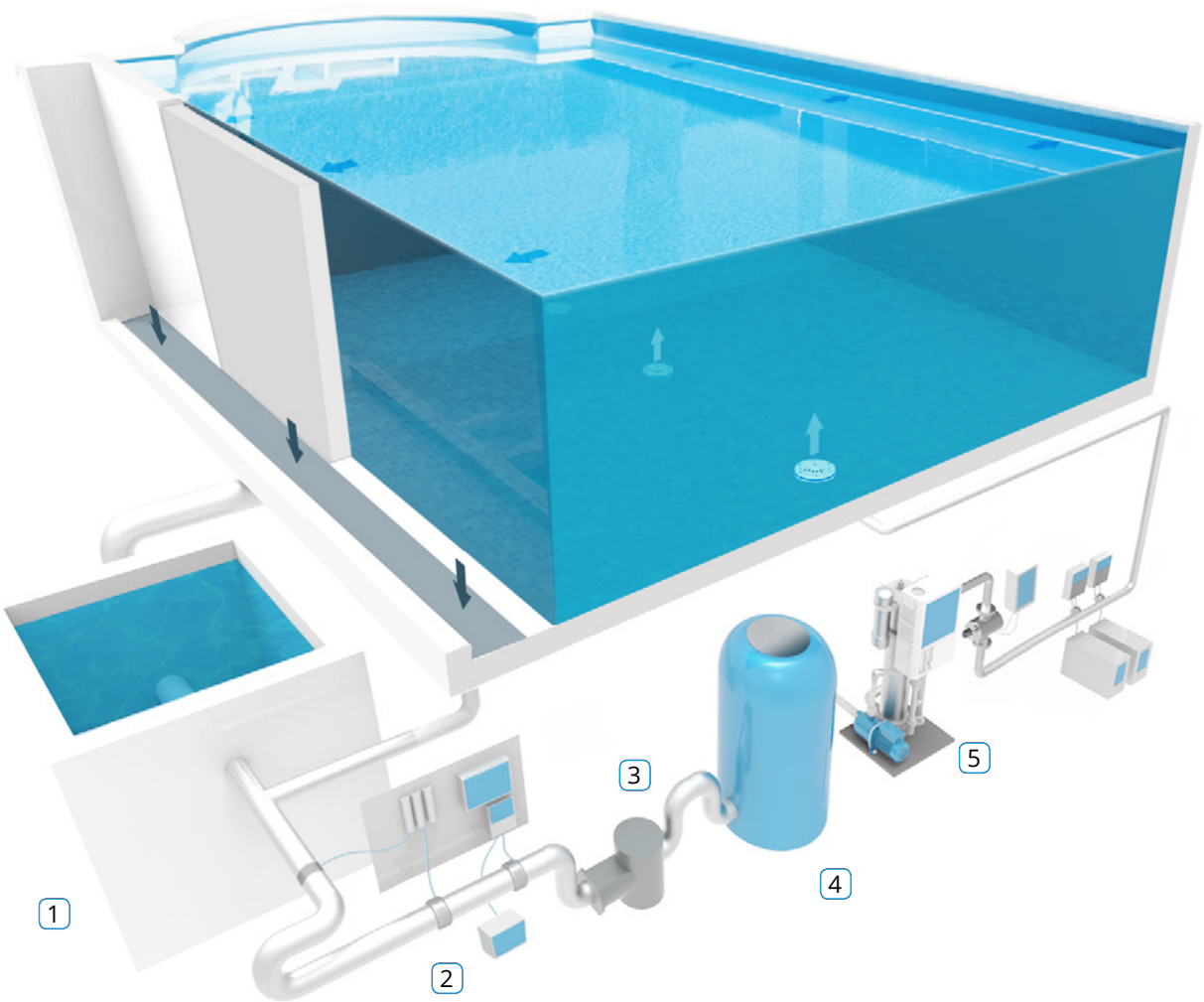
LifeOX® M systems available up to drinking water flow 1 250 m³/h.

Multiples thanks to the modular system

New Compact Disinfection and Oxidation Stage

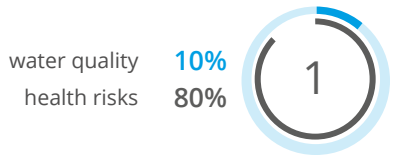
SMALL CHANGE,
BIG DIFFERENCE

ADVANCED OXIDATION PROCESS LIFEOX®
M

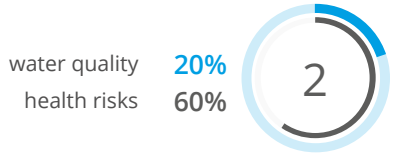


1 Accumulation
2 Flocculant
3 Filtration pump
4 Filter
5 LifeOX® Water Treatment

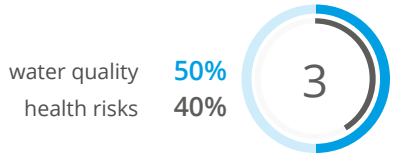
WATER QUALITY & HEALTH RISKS BY TECHNOLOGIES



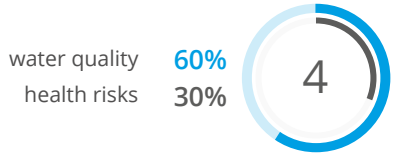
STANDARD POOL WITH CHLORINATION ONLY



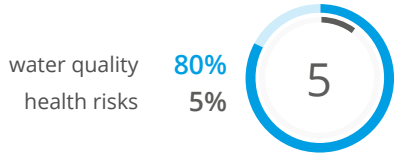
LIFEUVL® LOW PRESSURE UV TECHNOLOGY WITH CHLORINATION



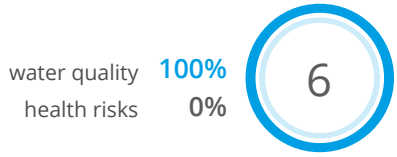
OZONE GENERATOR EXCLUSIVE® LOW OZONE DOSE WITH CHLORINATION



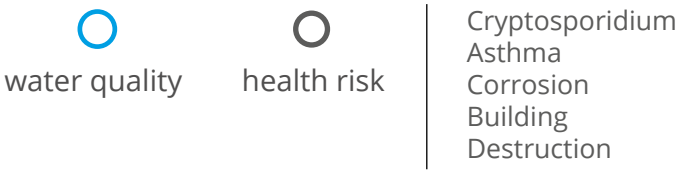
COMBINATION OF OZONE & UV - COMBI
- Slip stream – (Partial Flow)
- Advanced oxidation process



LIFEUVM® MEDIUM PRESSURE UV TECHNOLOGY WITH CHLORINATION

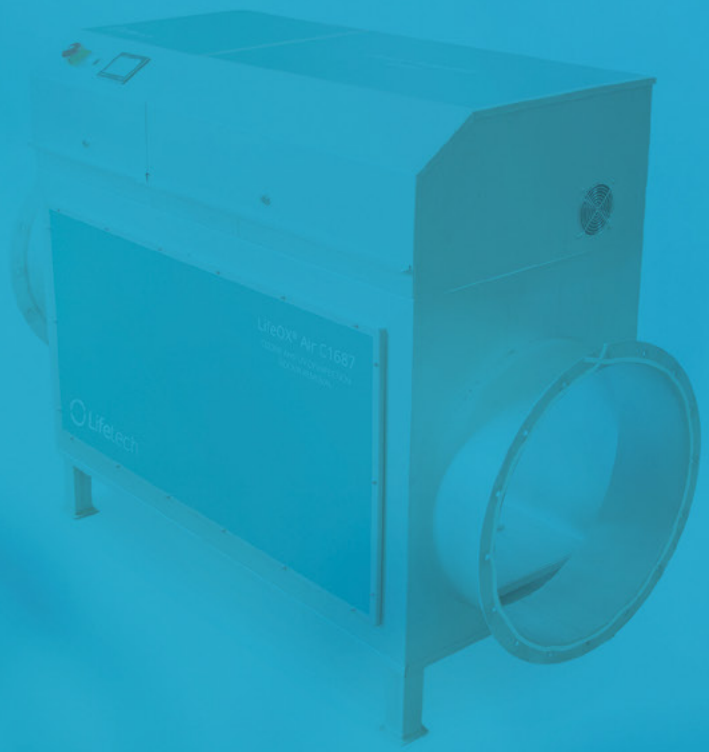


AOP EQUIPMENT - LIFEOX® M
- Full flow
- Advanced oxidation process with chlorination




LIFEOX® AIR
technology

LIFEOX® AIR
technology



LIFEOX® AIR – C

Your choice for compact, solid and well-engineered product.

PERFECTION YOU CANNOT EXPLAIN BY NUMBERS,
YOU MUST BREATH IT

1 Intelligent Design

2 Innovation inspired by nature

3 More than 30 years of experience

FRESH, HEALTHY AND FREE OF UNPLEASANT ODORS

AS IN NATURE

OZONE AND UV DISINFECTION AND ODOUR REDUCTION
INDUSTRIAL USE

Robust and reliable UV photo-oxidation system for disinfection and odour reduction of problematic odours in waste treatment plants, sewage works, bio waste, sludge treatment and many others.

LIFEOX® Air-C reduces or in combination with active carbon filters fully removes sulphur compounds such as H2S and mercaptans, NH3, VOC (Volatile Organic Compounds), etc.

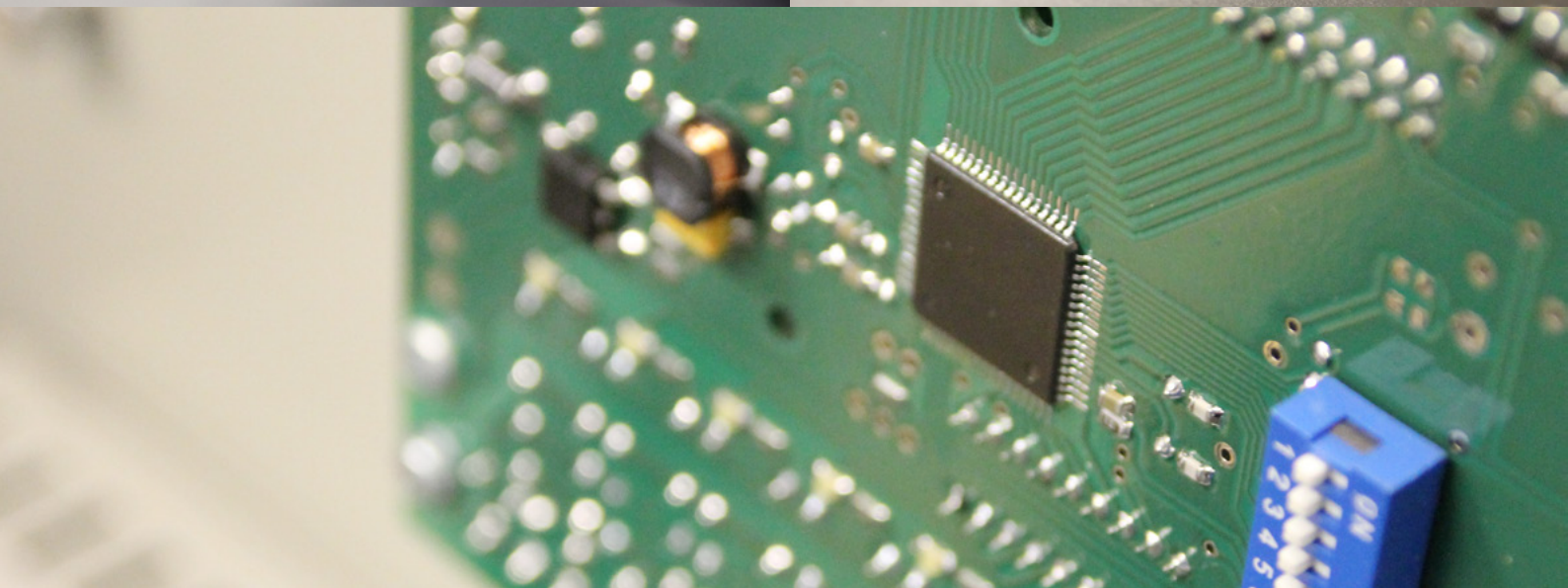
Produces entire line of LIFEOX® AIR-C systems from smallest one (treating air flow of a few Nm^3/h and with power of only 10W) up to big industrial machines (treating air flow of 21 000 Nm^3/h with power of only a few kW). Unique LifeAGE® technology minimises operating costs and prolongs the lifetime of UV lamps.

Model	Inlet/Outlet diameter (mm)	Max. Air Flow (Nm^3/h)
LifeOX® Air-C0148	100	100
LifeOX® Air-C0187	100	170
LifeOX® Air-C0287	100	230
LifeOX® Air-C0387	280	1500
LifeOX® Air-C0487	315	2000
LifeOX® Air-C0687	400	3000
LifeOX® Air-C0787	400	3500
LifeOX® Air-C1087	500	5000
LifeOX® Air-C1387	560	6500
LifeOX® Air-C1687	630	8000

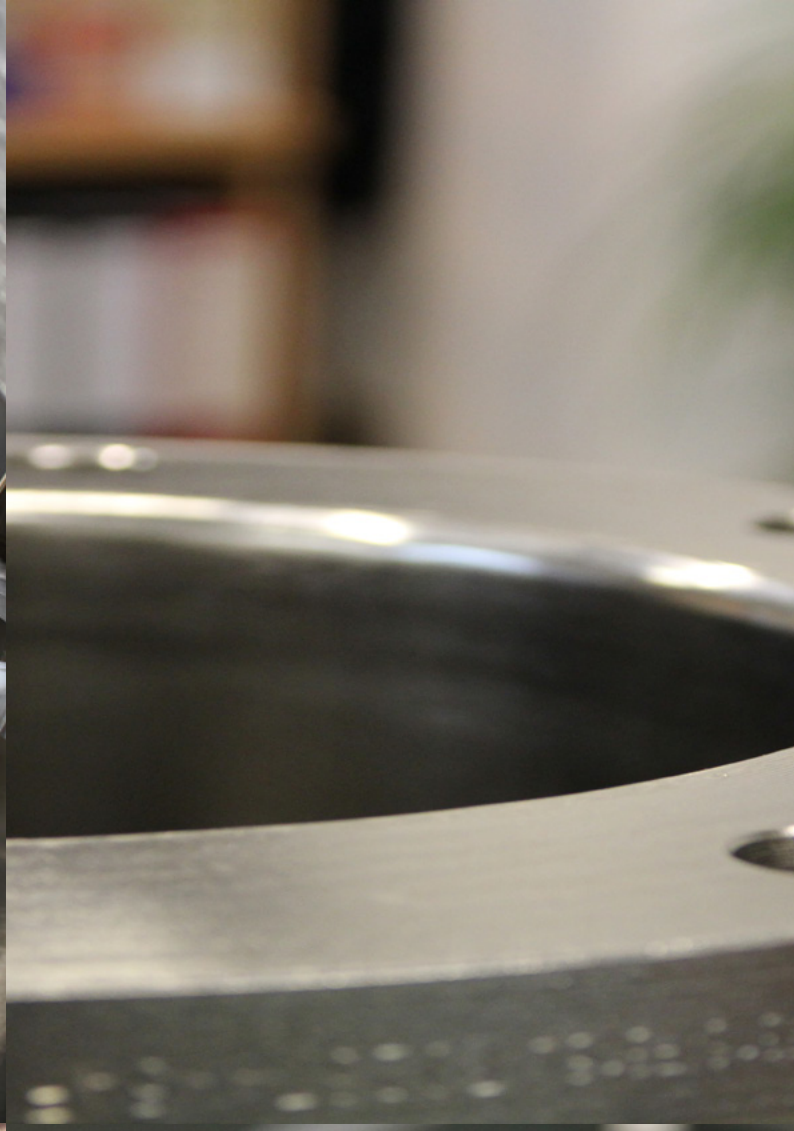
Air treatment plant – 7000 m^3/h – Finland

PRODUCT QUALITY

Quality

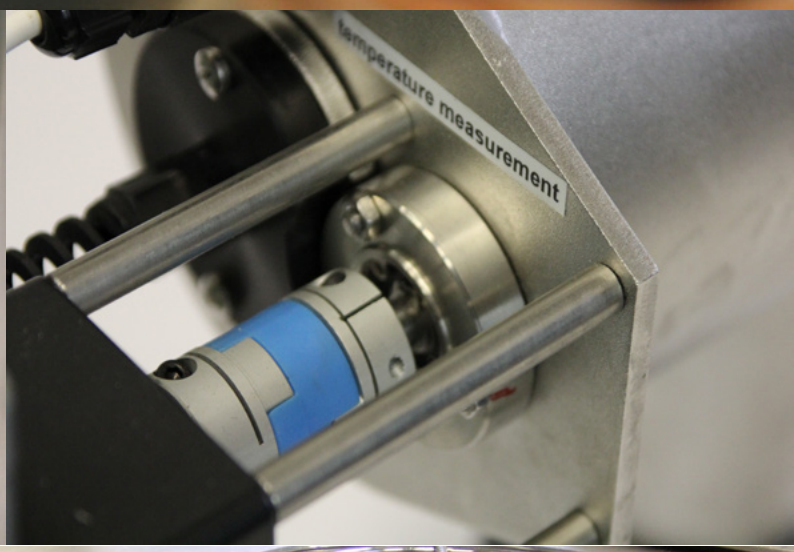


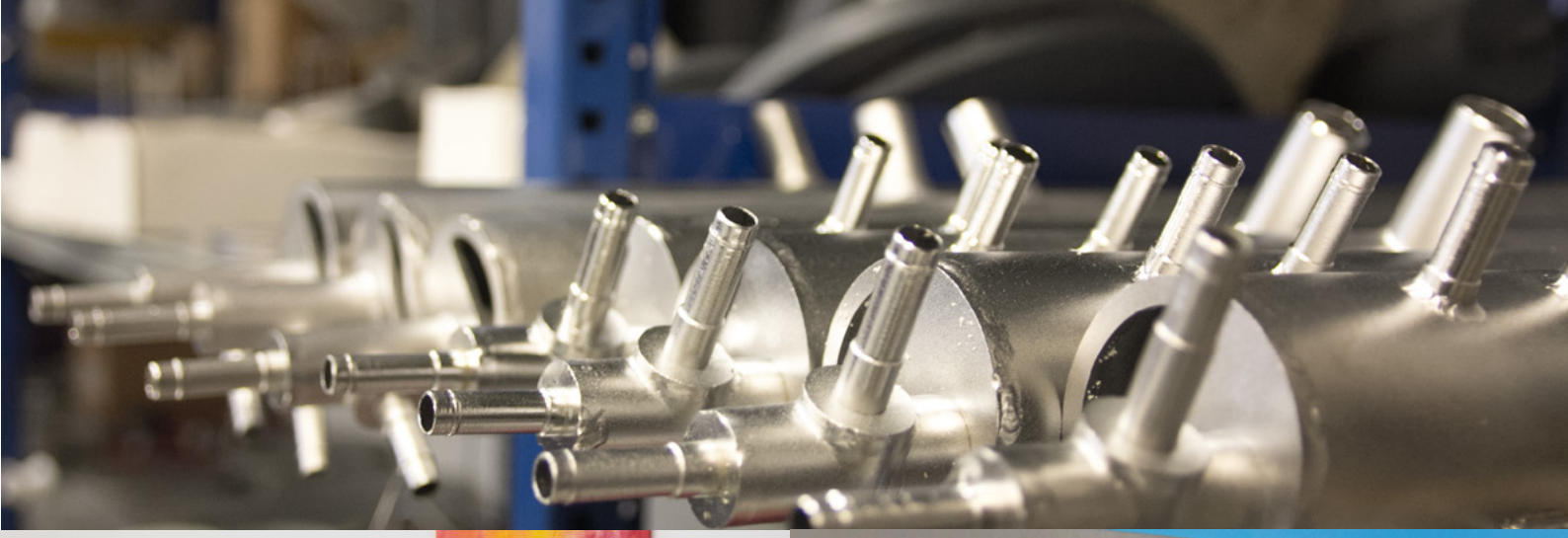

Experience




A01
ESC
OK

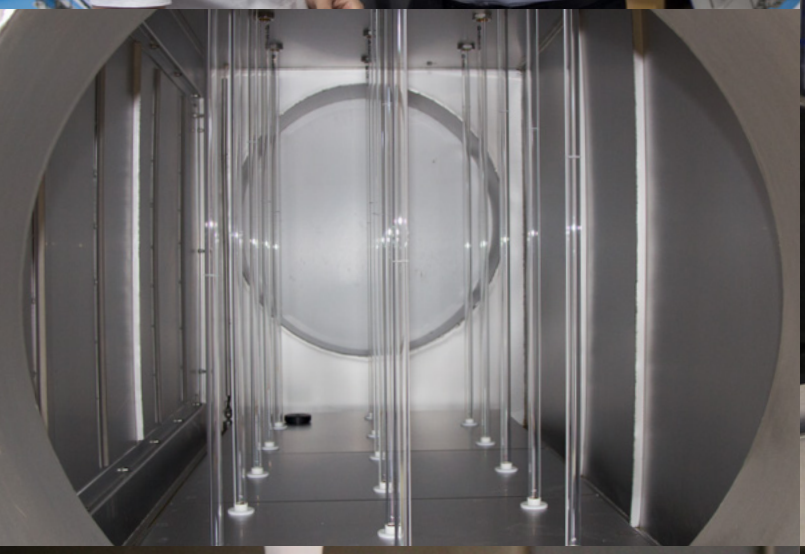
PRODUCT QUALITY






Designed and Produced in the EU


wmeter
Regeneration
Production
O3 failure
O3 Production
Min Max




Water cap


Gas pressure
1,0
1,5
0,5
2,0
2,5
oxygen
bar

MORE THAN 30 YEARS EXPERIENCE IN UV, OZONE AND AOP

REFERENCE SWIMMING POOLS AND JACUZZIS:

Grand Hotel Kempinski High Tatras *****, Štrbské Pleso Resort, Slovakia

Pool type: relaxation pool and whirlpool
Supply: LifeOX® technology

Wodny Świat, Zielona Góra City, Poland

Pool type: 7 various pools
Total flow: 1 700 m^3/hour
Supply: LifeUVM medium pressure UV systems, 7 pcs.

Baby Centre Šikulka, České Budějovice City, Czech Republic

Pool type: toddler swimming pool
Supply: LifeOX® technology

Science Centre Cardiovascular Surgery Bakuleva, Russia

Pool type: Therapeutic pool equipped
Supply: Combi Ozone/UV 4.0

Centre oceanography and marine biology ‚Moskvarium", Russia

Pool type: Special swimming pool for mammals equipped
Supply: LifeUVM 0120

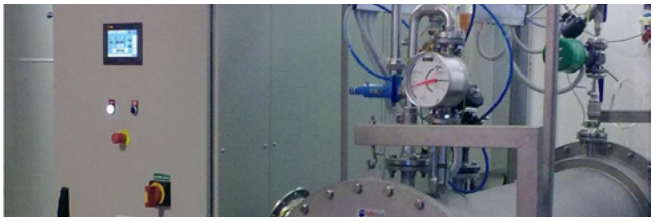
Kraví Hora Sports & Recreation Centre, Brno City, Czech Republic

Pool Type: 25 m swimming pool, recreational pool, whirlpool
Capacity: total capacity 700 m^3
Supply: LifeOX® technology

REFERENCE WASTE WATER

G. Modiano Ltd - Nejdek Wool Combing, the Czech Republic

- Ozone generator OZAST® with 3.3 kgO_3/h at 12 wt%, oxygen generator, contact chambers and a control unit
- Improvement of water quality used for wool washing
- Deodorization of the main, smell stream“ above the contract



REFERENCE INDUSTRIAL AIR TREATMENT

Air Treatment Plant, Finland

- LifeOX® Air C1687
- 7 000 m³/h of treated air
- Used for odour removal

REFERENCE DRINKING WATER

Vodovody a Kanalizace Jizni Cechy, the Czech Republic

- 3 waste water plants in Studena, Tabor and Prachatice
- Equipped with ozone generators OZAST® 300, OZAST® 400 and OZAST® 500 as well as ozone mixing systems, vent ozone destructors and control systems

Veolia Water Bochnia, Poland

- 3 OZAST® 2000 ozone generators, each of 1.2 kgO_3/h at 12wt%, vent ozone destructors, and a control unit
- Veolia Water water treatment plant extension and modernization
- Ozone is used for pre-ozonation and main disinfection

Bottling Plant Application, Belgium

- Ozone generator OZAST® 100 with one OG-20 oxygen concentrator installed in a bottling plant
- Total water flow around 25 m³/h - 1.5 PPM in 25 m³/h can be managed
- Two purposes: disinfection of the bottles and dosage of a small amount of ozone in the water itself (the water used to fill the bottles)

Sewage plant for special waste water - Spolana, Neratovice, the Czech Republic

- Advanced Oxidation Process (AOP) for removal of dioxins and furans (PCDD/F), chlorophenols and other contaminants from the BCD process wastewater
- OZAST® ozone generator with output of 5 kgO_3/h at 10% w/w ozone concentration, two reaction tanks with mixing systems, a vent ozone destructor and a control system
- The world largest project for removal of PCDD/F was managed by BCD CZ a.s., a subsidiary of Thermal and Chemical Soil Remediation Ltd.
- Dioxins removal