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Your Custom Made UV Systems for Various Applications:

- **Disinfection** of process water, drinking water, pool - and waste water, air and surfaces
- **Destruction of residual ozone** and **TOC** reduction in ultrapure water
- Reduction of **chloramine** in swimming pool water
- **Advanced Oxidation Process (AOP)** using UV radiation for degradation of organic matter in water
- **UV laboratory technology** (low pressure, medium pressure, and electrodeless lamps)
- Special UV applications

How to find us

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general partner of UV-EL

- UMEX GmbH Dresden
- www.umex.de

Product Overview UV Systems

Designed & Made by



Member of



**German Water
Partnership**

Solutions you can trust.

Our Products

Custom made UV systems for various applications:

UV disinfection



- Water (process water, drinking water, pool-, pure and waste water)
- Surfaces (foils, containers, etc.)

Reduction of chloramine



- Private pools, whirlpools and public baths

high-purity water



- UV disinfection
- TOC degradation
- Elimination of residual ozone

Our Products

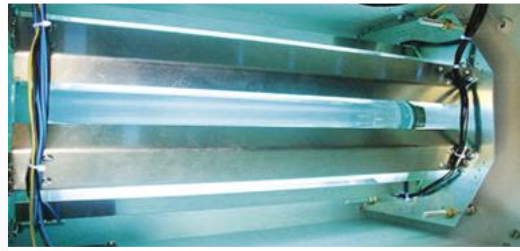
Custom made UV systems for various applications:

UV wet oxidation (AOP)



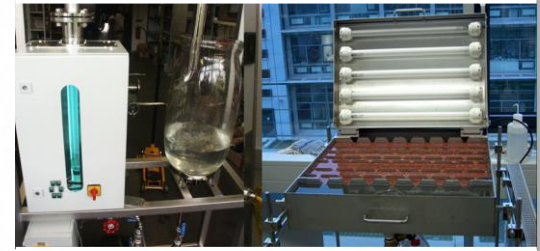
- Wastewater treatment
- Special cases of drinking water treatment

Special UV applications



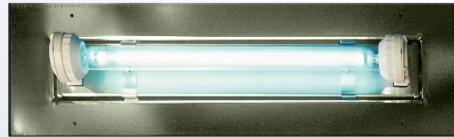
- Photochemistry, photobiology
- Photocatalysis
- specialty chemicals

Laboratory techniques



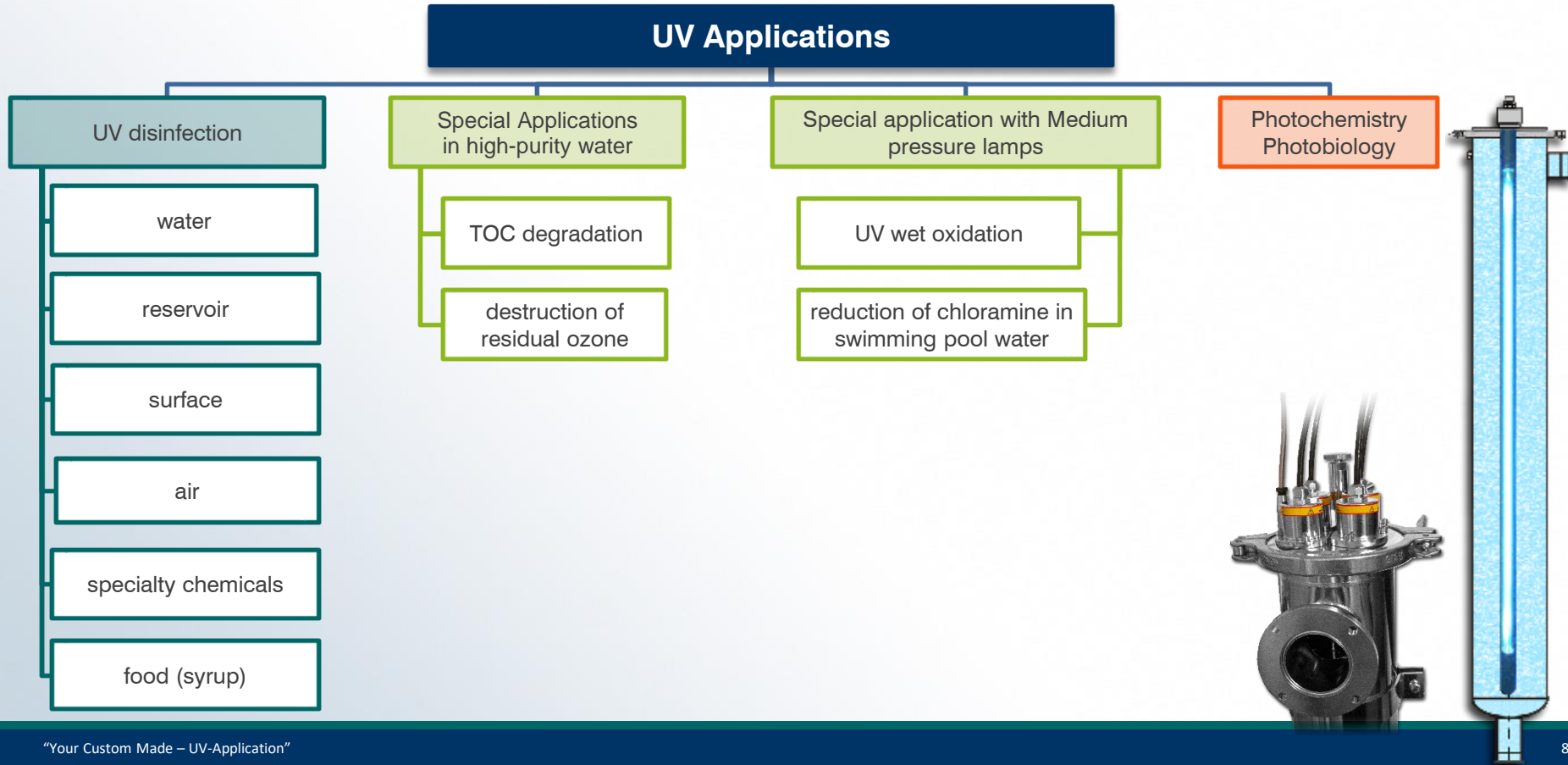
- Laboratory equipment with a variety of lamps
- Electrodeless lamps

Different Custom made UV-Systems



From 2003 to 2018, our customers have bought more than 2.850 custom-made UV-systems from UV-EL.





Vari Plus - VAP Series include different modifications

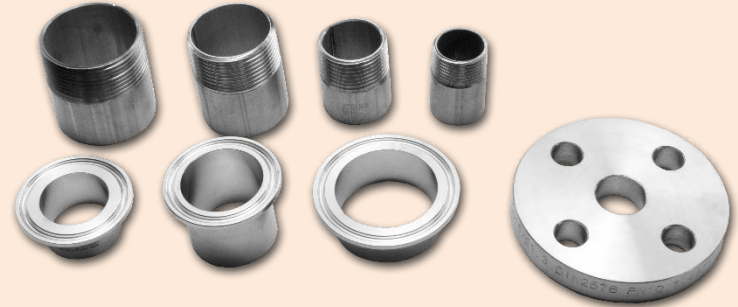


Disinfection of water and other liquid media, Degradation of TOC or residual ozone in ultrapure water

Wide range of applications



Variable reactor diameter
40--204 mm

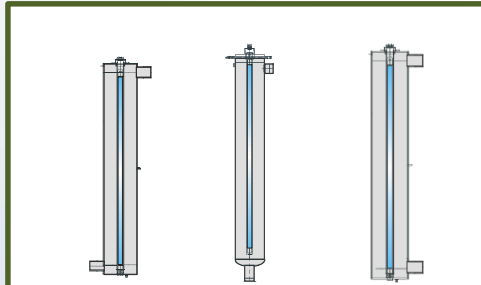


Variable flanges
(thread, flange, clamp etc., light trap etc.)

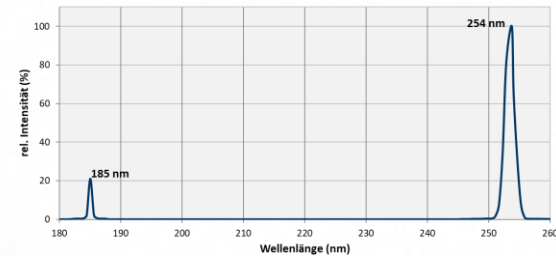
1.4301 – 304 L
1.4404 – 316 L

Variable material

Further system series also with several UV lamps per reactor for the food and pharmaceutical industries as well as microelectronics


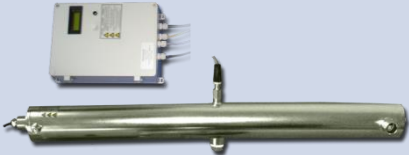
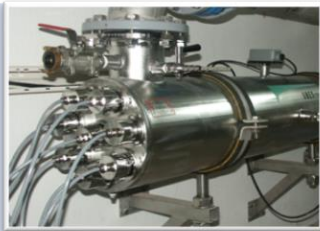
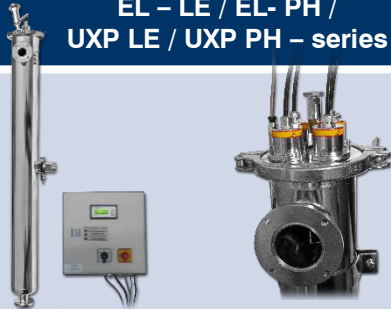


Variable designs (Z,L,U)



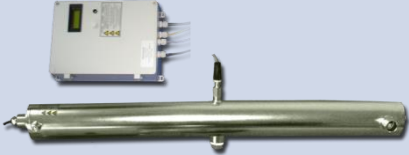
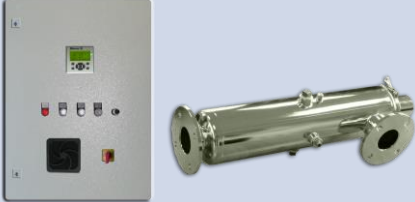
Variable lamp spectrum and lamp power 16-400 W

UV Disinfection Systems for Process Water

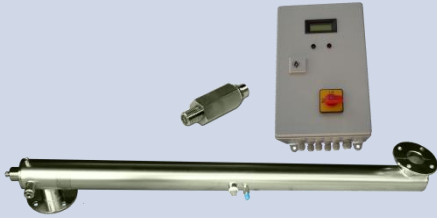


MIP P - series	VAP P - series	UXP P - series	EL – LE / EL- PH / UXP LE / UXP PH – series
			
Q to 1,4 m ³ /h	Q > 1,4 – 50 m ³ /h	Q > 50 m ³ /h	Q to 88 m ³ /h per reaktor (depending on the necessary fluence)
single lamp system with low pressure lamps (special system with lamps for TOC degradation)	single lamp system with low pressure or amalgam lamps (special system with lamps for TOC degradation)	multi lamp system with amalgam lamps (special system with lamps for TOC degradation)	Special systems for food and pharmaceutical industry as single and multi lamp systems Systems of the EL-PH and UXP-PH Series are certified according to GOST-R
power to 25 W	power to 400 W	power to 6,000 W	power to 2,000 W

Custom systems up to a volume flow of 550 m³/h per reaktor!





UV Disinfection Systems for Waste Water

MIP P - series	VAP AW - series	UXP AW - series	UXPM AW - series
			
Q to 1,4 m ³ /h	Q to 11 m ³ /h	Q > 11 m ³ /h	Q to 150 m ³ /h (depending on the necessary fluence)
single lamp system with low pressure lamps	single lamp system with low pressure or amalgam lamps	multi lamp system with amalgam lamps	single lamp system with medium pressure lamps
power to 25 W	power to 400 W	power to 2,800 W	power to 7,000 W

UV Radiation System for Swimming Pool Water

VAP – Series	UltraDis® Q-Series	UltraDis® E-Series
Disinfection	UV Disinfection and reduction of chloramine	
		
$Q > 1,4 - 50 \text{ m}^3/\text{h}$	$Q \text{ bis } 240 \text{ m}^3/\text{h}$	$Q \text{ bis } 155 \text{ m}^3/\text{h}$
single lamp system with low pressure and amalgam lamps	UV systems with medium pressure lamps cross flowed reactor	UV systems with medium pressure lamps lengthwise flowed reactor
power to 400 W	power to 6000 W	power to 3,500 W

UV Radiation Systems for AOP Processes

UXPM OX Mobil	UXPM OX Series		UltraDis40Lab
			
power to 7,000 W ^{*)} (adjustable)	power 11,500 W ^{*)}		power to 400 W
mobile UV systems with medium pressure lamps	UV systems with medium pressure lamps		UV systems with medium pressure lamps and jacketed reactor for temperature control of the medium

^{*)} custom made systems with higher power ratings on request

Choice of Special Systems



New Product 2018

PHZ our **new** UV series for the pharmaceutical industry



With the main innovations:

- All flange connections also on the reactor in aseptic design according to **DIN 11864**
- Reactor tube with necking to the process connections, thus **no fillet welds necessary during welding**
- Reactor with less dead space than conventional designs
- Sealing material FDA compliant, **USP CLASS VI, EG VO 1935/2004**
- UV monitoring (incl. measuring window according to **DIN 11853-3-A**)



Custom Made System for Pharmaceutical Industry



UV Systems of PH - series
mit custom made
switch cabinet

for our
customer



Special Application



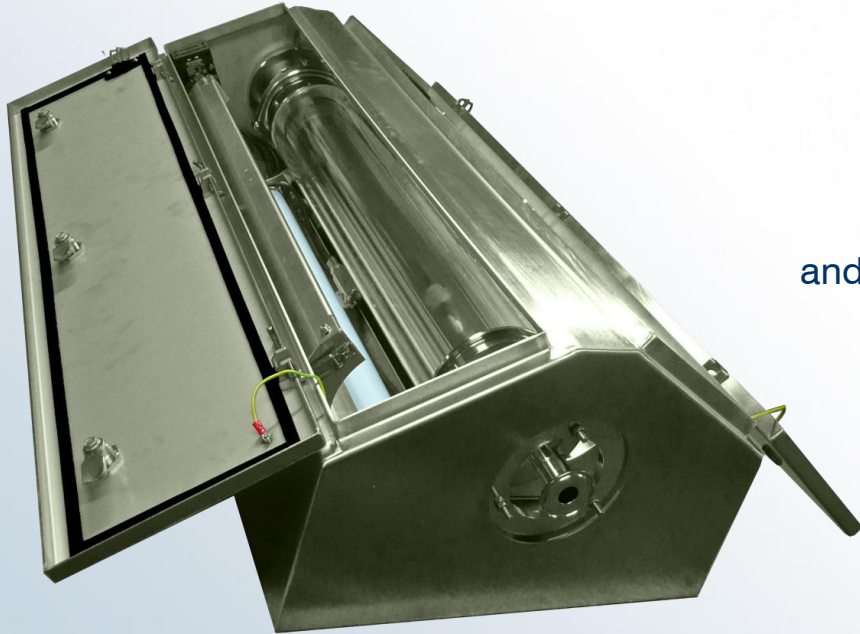
Corrosion protection coating for:

- The reactor corpus
- The reactor cover
- The quartz tube system
- (optional outside)

Applications:

- salty water
- acids
- and other corrosive media





Module for light exposure – UV-radiation device (320 nm) with these characteristics:

- positive radiation geometry
- quartz and filter tube for wavelength selection
- integrated floating body to generate a thin media film (material 1.4435 smoothed 0,5 μm , electropolished Delta ferrite < 3 %)
- aseptic flange TC DN 15 according DIN 11864

and following lamps:

- 8 x 40 W special low pressure lamps
- incl. UVA sensor for each lamp

Quartz tube system as OEM Components



For container and air disinfection:

- low pressure lamps up to 64 W
- amalgam lamps up to 300 W
- medium pressure lamps up to 7 kW (only stainless steel)

Application of quartz tube systems

- container disinfection
- air disinfection
- surface disinfection
- as an OEM - version in a wide range of other applications usable

Custom Made UV Systems for Process Water Disinfection



**Flow rate up to
550 m³/h per reactor**

(depending on UV transmission and necessary fluence)



Mobile pilot plant for removal of cyanide in the process water. System has injector for injecting hydrogen peroxide.

Application range:

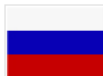
- Treatment of groundwater, contaminated with pesticides, VHH's, BTEX, phenols, etc.
- Treatment of wastewaters with high levels of AOX
- Treatment of toxic wash water,
- Decolorization of dye factory waste water
- Demetallation of electroplating waste water
- Improve the biodegradability of waste water from chemical industry

A range of International distribution partners



Vietnam

NMT TECHNOLOGY - IMPORT EXPORT AND SERVICE COMPANY LIMITED
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We will answer your questions with pleasure!



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