VGE pro
UV DISINFECTION SOLUTIONS

EN

Medium Pressure lamp UV-C systems

Create the best water quality for swimming pools





PERFECT WATER QUALITY
FOR SWIMMING POOLS

For swimming pools, guaranteeing safe and pleasant water for swimmers is essential, along with meeting legal regulations and addressing maintenance and energy requirements. Traditional methods of disinfection, such as chlorine, are widely used but introduce unwanted side effects. The familiar "chlorine smell," irritation of the eyes, and even damage to swimwear are common complaints from swimmers. Pool operators have to constantly balance using chemicals, changing regulations, maintenance requirements, and water quality factors that impact the swimming experience.

This is where UV-C disinfection technology makes a clear difference. VGE Pro's Medium Pressure UV-C lamp systems provide a reliable, eco-friendly solution to guarantee controlled water quality. UV-C water treatment is highly effective at reducing chloramines in the water, with the added benefit of extra disinfection and neutralizing chlorine-resistant microorganisms. As a result, our systems control your water quality and create a very comfortable swimming experience. When properly applied, medium pressure UV lamp units offer a long-lasting, effective solution for pool operators looking to modernize their water treatment approach.

Protecting swimmers from waterborne illnesses and irritation.

Swimming pool water that is not properly disinfected can harbor dangerous bacteria, viruses, and other harmful pathogens. This poses a serious health risk for swimmers, leading to potential issues such as infections and respiratory problems. According to the World Health Organization (WHO), poorly maintained swimming pools are a leading cause of recreational waterborne illnesses. In addition, traditional chemical water treatments (with its byproducts such as chloramines) lead to eye and skin irritation, and the persistent chlorine odor that detracts from a pool's appeal. These factors make water quality a critical priority for pool operators and customers.



Scan:
Discover the journey to transform your water disinfection.



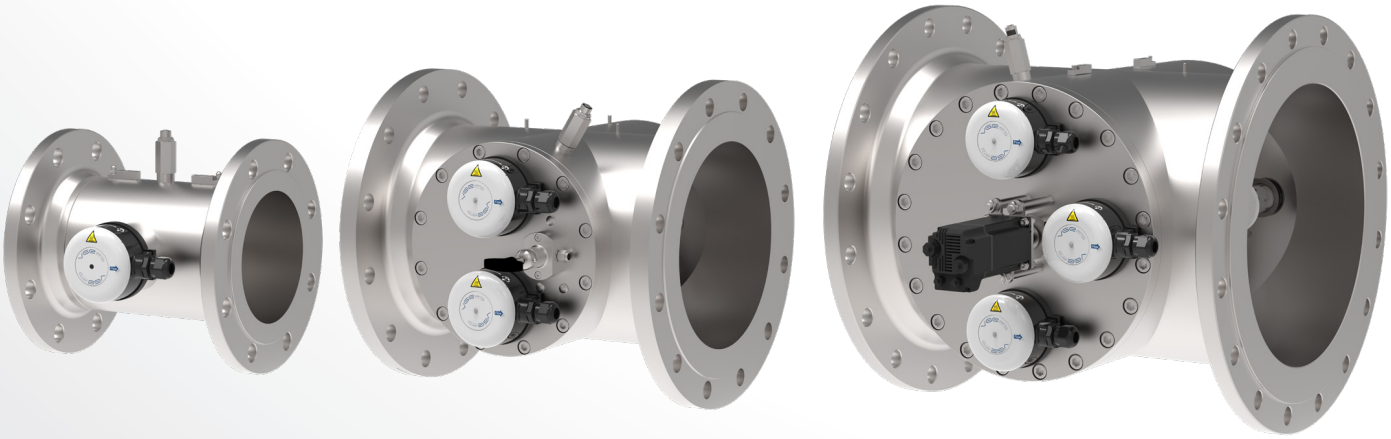
OUR SOLUTION:
PROFESSIONAL POOL WATER TREATMENT WITH UV

The lamps of these UV systems operate at a medium pressure, which is a specific technique, different from low pressure alternatives. The result is an emission across a broad UV spectrum, resulting in fast and effective removal of chloramines in large volumes of water.

Our UV-C technology is an effective and eco-friendly solution that perfectly combines with regulatory chemical-based treatments. This specific spectrum of UV light also disrupts the DNA of bacteria, viruses, and other pathogens, rendering them harmless.

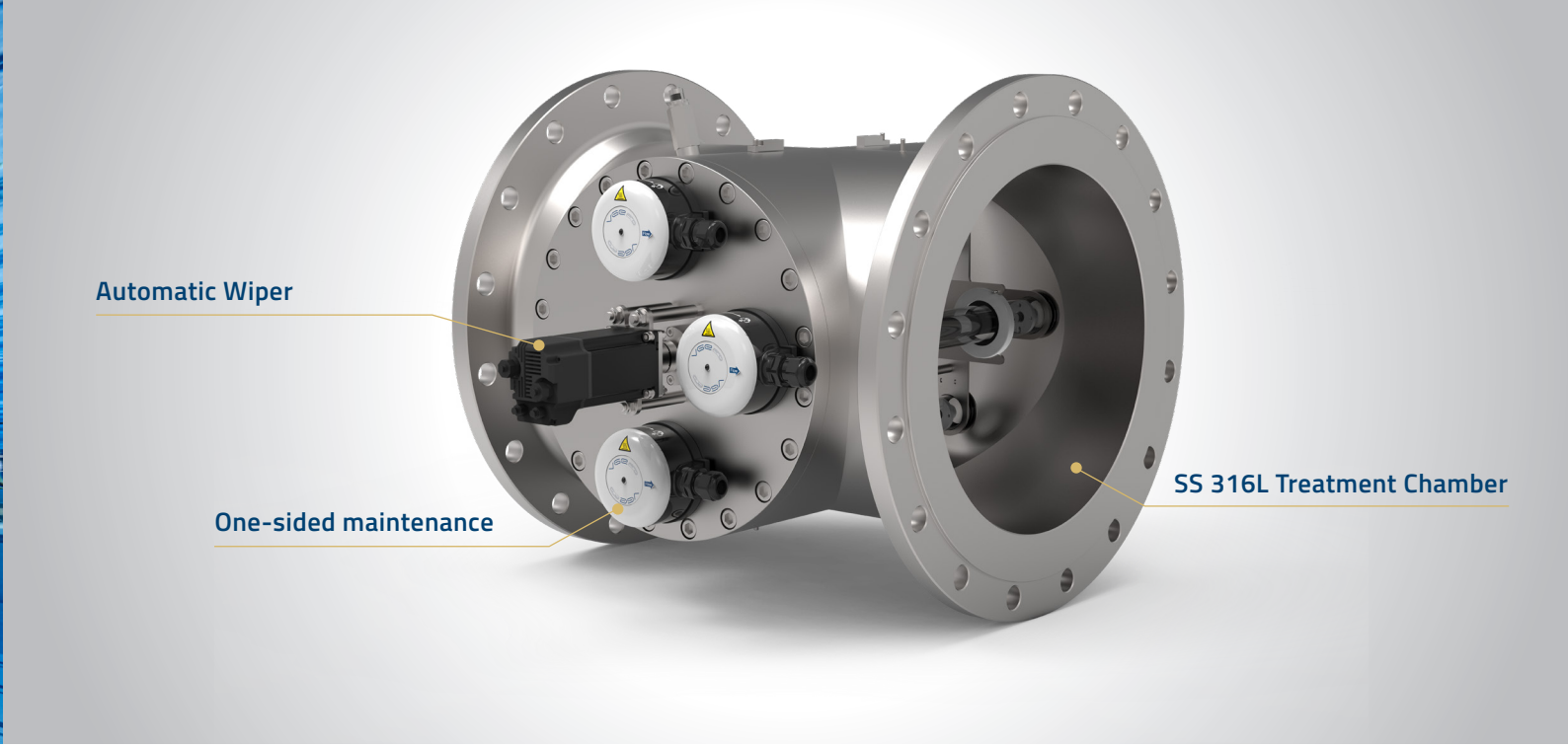
Unlike chlorine, UV-C water treatment does not introduce harmful by-products into the water. This controls your water quality and helps eliminate the and eliminates chlorine resistant microorganisms.

Our systems are designed for easy integration into existing and new water treatment installations, making them a versatile and practical choice for swimming pools of all sizes. With longer lifespans and a range of compact designs, they offer pool owners a high-performance solution that ensures both safety and comfort for swimmers and reduces costs of operation.



System	MultiMax	600-85	1000-104	1500-168
Process	[m^3/h]	[m^3/h]	[m^3/h]	[m^3/h]
Disinfection: D = 400 J/m^2, UVT = 98 %	13	19	39	107
Chloramine reduction: D = 600 J/m^2, UVT = 95 %	8	11	23	62
Chloramine reduction: D = 400 J/m^2, UVT = 95 %	12	17	37	92

Design Pressure: 10 bar / 145 psi
Lamp lifetime: 9.000 operating hrs expected lamplife



MEDIUM PRESSURE LAMP SYSTEMS

EXCELLENCE FOR EVERY SWIMMING POOL

VGE Pro offers a versatile range of medium pressure lamp UV-C systems, designed to meet the specific needs of various pool installations. Our product line features multiple models, each tailored to different pool sizes and operational requirements, all engineered to the highest safety standards. Every unit is compact, easy to install, and built to endure the demands of daily pool use.

Equipped with long-lasting medium pressure lamps, VGE Pro systems efficient chloramine reduction and reliable water disinfection. Guarantee pristine conditions for professional swimming pools.

Wiper: Over time residue can accumulate on the quartz glass surrounding the UV lamps, hurting their effectiveness. The wiper offers an easy way to clean the glass, without having to take the system out of operation.

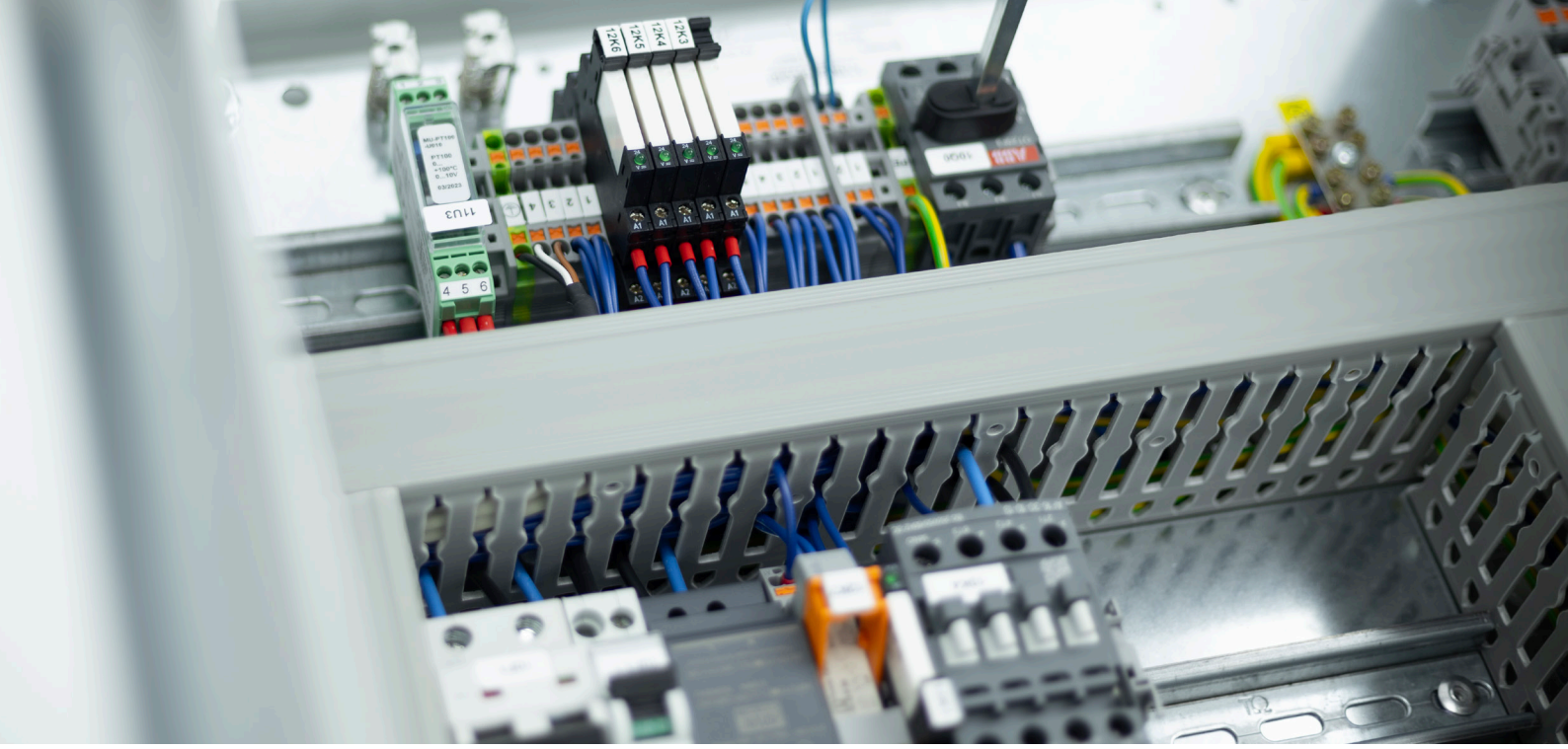
Manual Wiper



Automatic Wiper



System	2000-219	2500-256	3000-306	5000-256	6000-306	7000-356	10500-356
Process	[m³/h]	[m³/h]	[m³/h]	[m³/h]	[m³/h]	[m³/h]	[m³/h]
Disinfection: D = 400 J/m², UVT = 98 %	178	257	339	457	645	859	1248
Chloramine reduction: D = 600 J/m², UVT = 95 %	100	140	181	242	329	426	618
Chloramine reduction: D = 400 J/m², UVT = 95 %	149	210	271	363	494	639	928

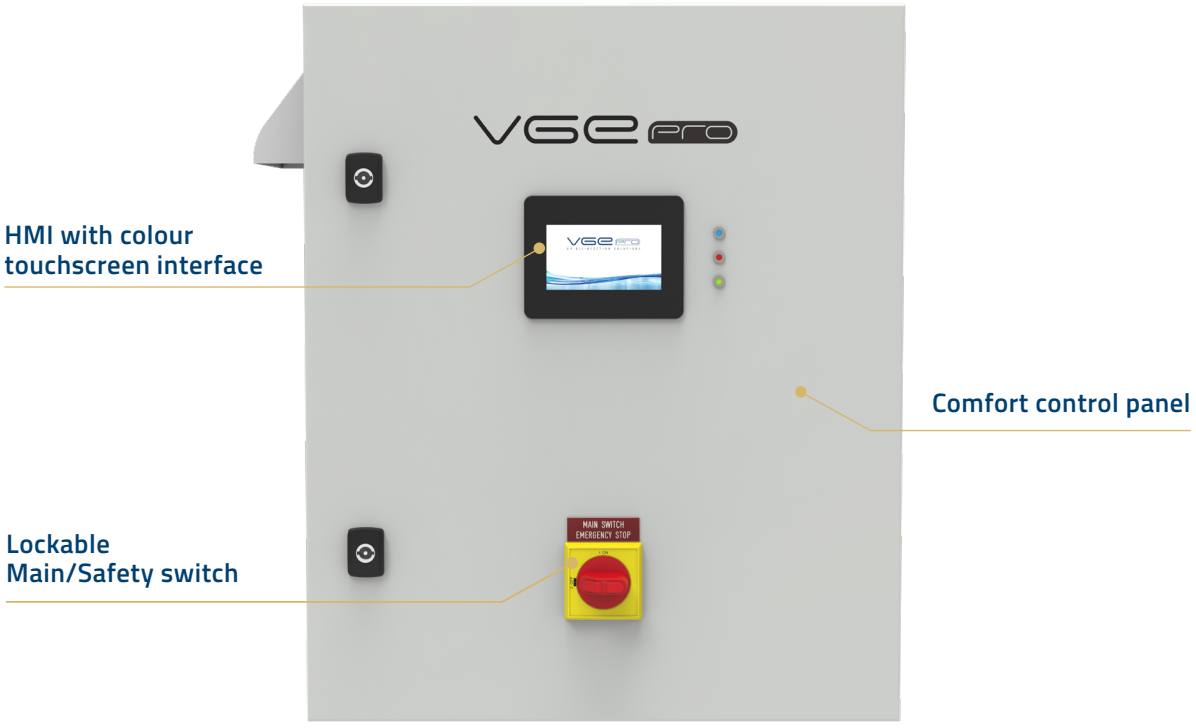


COMFORT CONTROL PANEL:
ENHANCED MONITORING AND SAFETY

The **Comfort Control Panel** offers advanced functionality designed to optimize the performance, safety and feedback of your medium pressure lamp UV-C systems. In addition to providing essential safety features, the panel includes options such as a UV intensity sensor and a Pt100 chamber temperature sensor. When connected, these sensors allow for automatic monitoring, checking if the UV intensity and chamber temperature remain within required levels. Should pre-set thresholds be exceeded, the system will provide you with a warning.

The control panel is equipped with a **full color display** that provides real-time system data, and it can be operated both remotely and locally for added convenience. A lockable switch ensures safety during access and maintenance.

The **Comfort Medium Pressure UV-C** sytem can also be retrofitted into existing installations, providing flexibility for pool operators who wish to upgrade their current systems with enhanced monitoring and control capabilities.





VGE PRO
YOUR PARTNER IN UV SOLUTIONS

VGE B.V. is a global leader in UV water treatment systems, serving diverse domestic and industrial sectors. Safe and sustainable water is essential for our future. It is our mission to continually innovate environment-friendly systems for water treatment. Whether it is a private or public pool, or a large crop plantation, VGE systems guarantee water quality using UV, using less chemicals.

Located in the southern part of the Netherlands, we are renowned for manufacturing a unique range of UV-C equipment. Our focus lies in delivering high-quality products and fostering harmonious collaboration with our customers. Being situated in the Brainport Region, the Netherlands' top technology hub, fills us with pride.

As a global leader in the field, VGE B.V. specializes in the development and production of UV-C equipment for various water treatment applications.

We constantly introduce new products and continuously enhance our existing offerings. By leveraging large-scale production, we provide our customers with products that offer exceptional price-quality ratios. Sustainability is integrated in our production and development processes, with a strong emphasis on environmental friendliness and energy conservation. With over four decades of experience since our establishment in 1982, we have developed technically advanced products that are used in more than 70 countries worldwide.



VGE pro
A VGE BRAND

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