NON-CORROSIVE PP/PEHD SERIES

UV DISINFECTION • EFFICIENT AND CHEMICAL-FREE WATER TREATMENT

ULTRAQUA

UV DISINFECTION SYSTEMS

WE PROTECT YOUR MOST VALUABLE RESOURCE

NON-CORROSIVE PP/PEHD SERIES

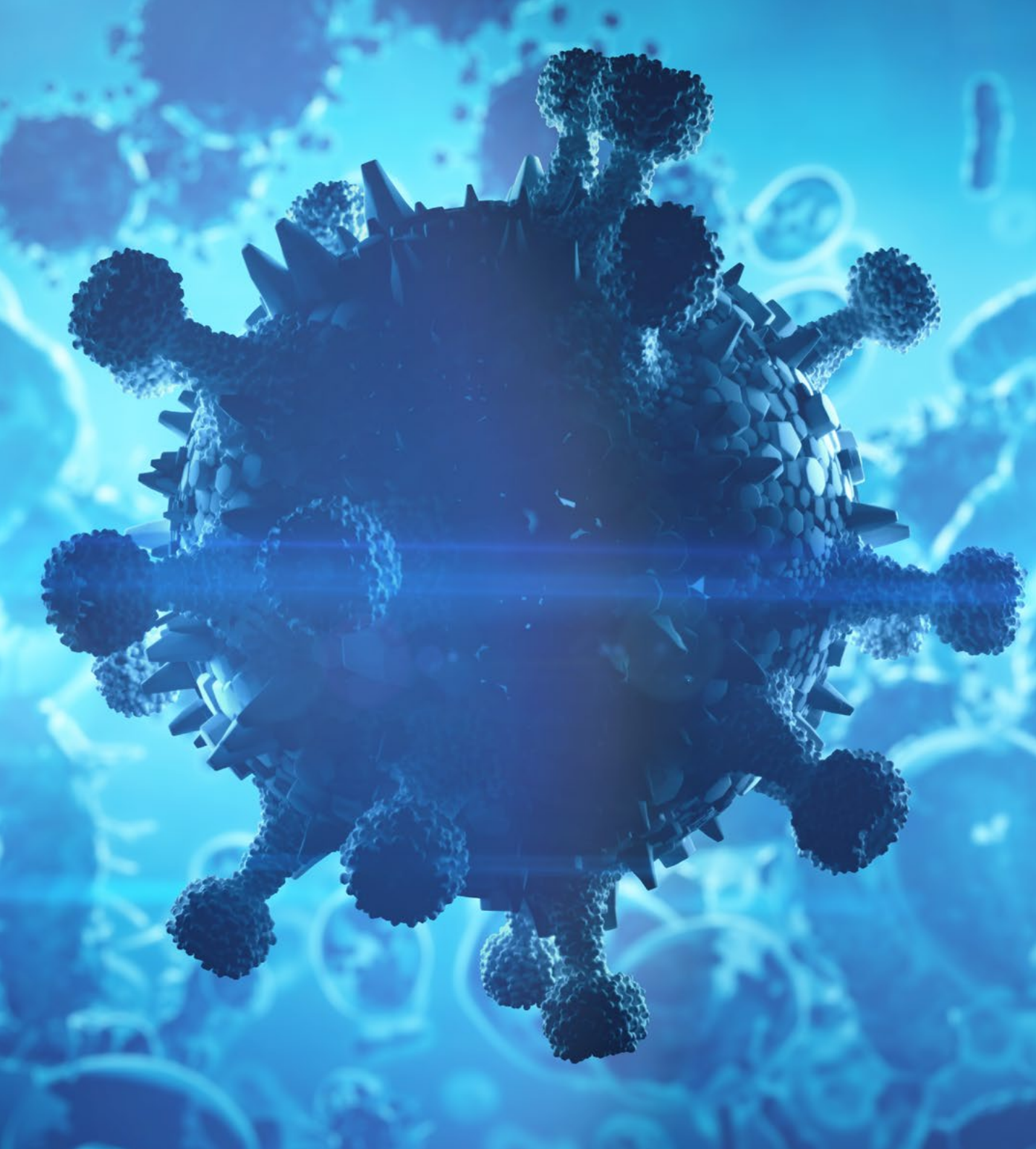
THE PP/PEHD SERIES IS DEVELOPED SPECIFICALLY FOR HARSH CORROSIVE ENVIRONMENTS.

THE MATERIAL ENSURES OPERATIONAL EXCELLENCE ACROSS SEVERAL APPLICATIONS, DUE TO ITS EXCEPTIONAL DURABILITY, TEMPERATURE RESISTANCE AND PRESSURE RESISTANCE, BEING ABLE TO WITHSTAND THE MOST CORROSIVE ENVIRONMENTS AROUND THE GLOBE.

KEY HIGHLIGHTS

- Guaranteed 16.000-hour ULTRATHERM™ lamp lifetime
- Optimized for maximum efficiency
- Easy maintenance and installation
- Complete control with ULTRATOUCH™ control cabinets
- Automated ULTRAWIPER™ quartz cleaning with tailored brush heads
- Extended 5 years warranty available - subject to terms & conditions

MARKET LEADING ENERGY EFFICIENCY



CORE BENEFITS OF UV

UV TECHNOLOGY IS A GLOBALLY ACCEPTED SOLUTION FOR WATER DISINFECTION, EFFECTIVELY INACTIVATING BACTERIA, VIRUSES, AND PROTOZOA.

The demand for cost-efficient solutions to provide clean water are at an all-time high and will only increase in the future. UV disinfection solves this complex challenge, being able to meet the strictest requirements regarding bacteria and virus protection.

Due to recent developments, UV disinfection is now an effective alternative in a wide range of water qualities and applications. Improved technological and design configurations have made UV a viable OPEX and CAPEX solution for disinfection processes as well as in more advanced applications such as Advanced Oxidation Processes (AOP).

Choosing UV as the disinfection method ensures optimal CAPEX and OPEX conditions compared to its alternatives, making UV the best solution for a wide range of installations.

ULTRAAQUA UV disinfection systems are easy to install, maintain, and thoroughly cost-optimized. The third-party approvals for performance and quality ensure complete peace of mind, employing the best available solution for complete biosecurity.

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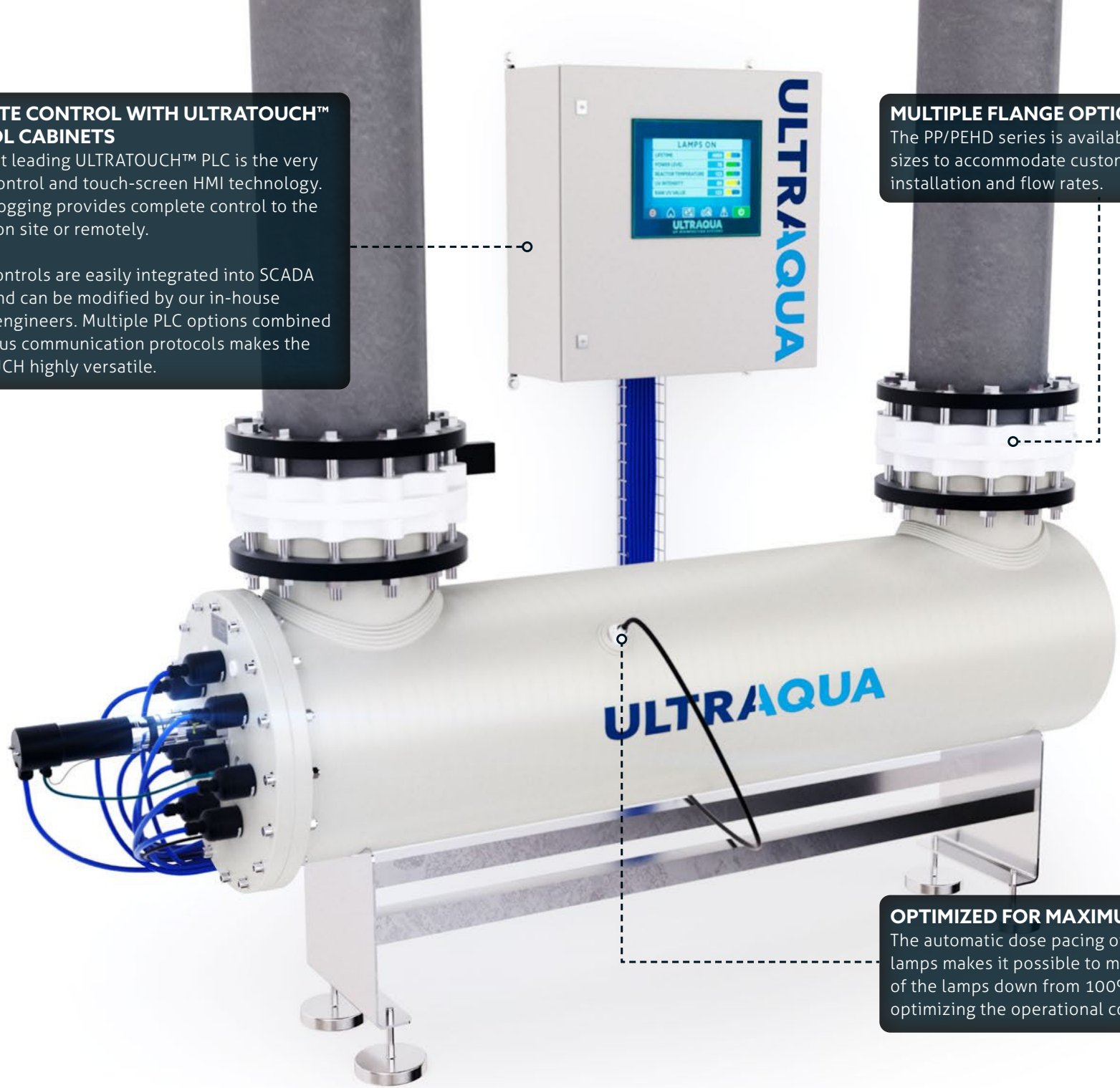
COMPLETE CONTROL WITH ULTRATOUCH™ CONTROL CABINETS
The market leading ULTRATOUCH™ PLC is the very latest in control and touch-screen HMI technology. Full data logging provides complete control to the operator, on site or remotely.

The PLC controls are easily integrated into SCADA layouts, and can be modified by our in-house software engineers. Multiple PLC options combined with various communication protocols makes the ULTRATOUCH highly versatile.



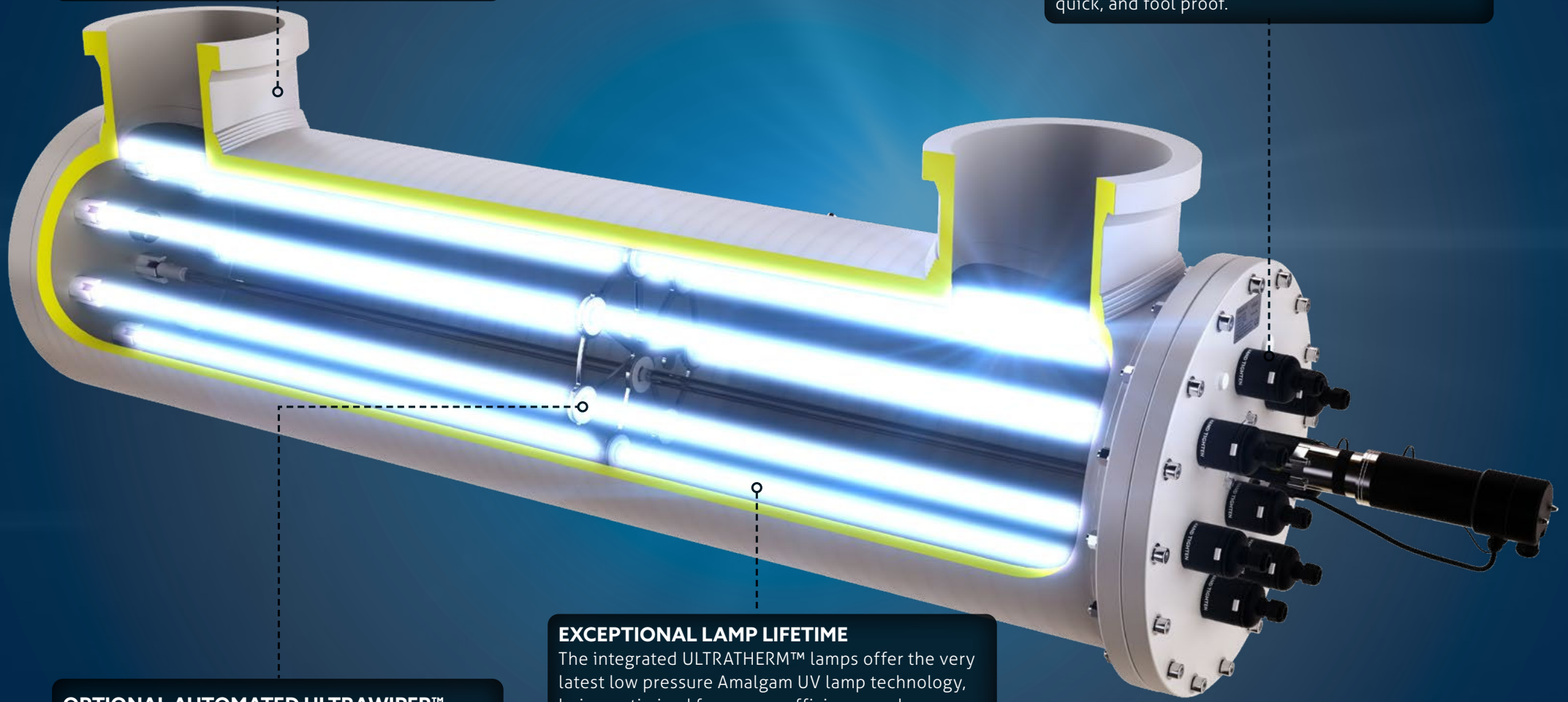
MULTIPLE FLANGE OPTIONS
The PP/PEHD series is available in multiple flange sizes to accommodate custom requirements for installation and flow rates.

OPTIMIZED FOR MAXIMUM EFFICIENCY
The automatic dose pacing of the ULTRATHERM™ lamps makes it possible to modify the power output of the lamps down from 100% to 50%, significantly optimizing the operational costs.

MAXIMUM PERFORMANCE IN CORROSIVE ENVIRONMENTS
The material ensures operational excellence across several applications, due to its exceptional durability, temperature resistance and pressure resistance, being able to withstand the most corrosive environments.

EASY MAINTENANCE AND INSTALLATION
With a design that allows for easy maintenance and single sided access, the system is easily installable and can be serviced using no special tools.

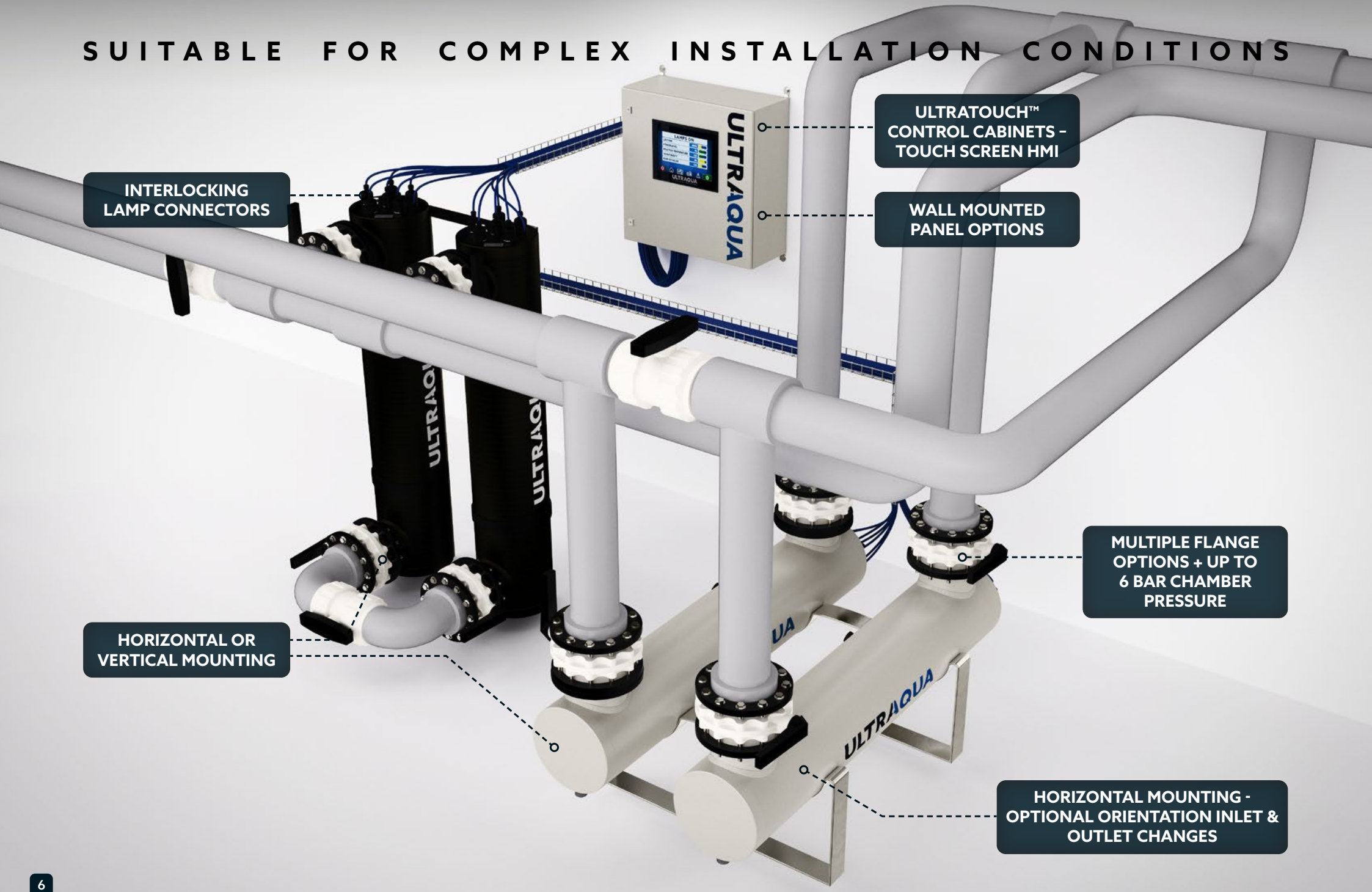
The unique interlocking electrical and mechanical lamp connectors make servicing of the system safe, quick, and fool proof.



OPTIONAL AUTOMATED ULTRAWIPER™
The automatic wiping mechanism keeps the quartz sleeves and UV sensor clean.

EXCEPTIONAL LAMP LIFETIME
The integrated ULTRATHERM™ lamps offer the very latest low pressure Amalgam UV lamp technology, being optimized for energy efficiency and robustness. The substantial 16.000 hours of lamp lifetime offers market leading lamp efficiency in UV-C output density.

SUITABLE FOR COMPLEX INSTALLATION CONDITIONS



CUSTOMIZED SOLUTIONS

ULTRAAQUA EMPLOYS AN ENTIRE DEPARTMENT OF ENGINEERS WHO ARE SPECIALIZED IN THE DESIGN AND CONSTRUCTION OF UV SYSTEMS.

Multiple years of experience within relevant applications makes it possible to adjust any standard UV system to accommodate specific requirements.

The customization requirements can vary from adjustments such as reactor shape or flange size, to adding new advanced features. This makes the ULTRAAQUA design department function as a consulting agency, working towards an optimized customized solution. This means that we can ensure on site validation to various standards, fitting your exact requirements.

The following possibilities are available for all customized UV units:

Customized services

- Integrated CFD Analysis
- Particle tracing modeling analysis
- Determining fluence rate
- Physical testing
- Onsite validation testing
- Advanced UV disinfection support

Customized products

- Custom UV systems for advanced applications
- Packaged plant equipment
  - Including mobile treatment container
  - Skid packages

Comprehensive technical knowledge makes the engineers able to assist with installation details such as weir design, water level control devices, and many other project-specific matters.

R&D CAPACITIES

SINCE 1996, THE R&D DEPARTMENT HAS BEEN THE BACKBONE OF ULTRAAQUA.

Employing the brightest industry specialists with great diversity for continuous innovation has been vital to the success of the company.

The ULTRAAQUA R&D department conducts, supports, and pioneers some of the latest developmental work within the water industry. These projects are often done in collaboration with specialists from municipalities, universities, top tier consultancies and international companies. The projects are primarily focused on developing unique and advanced chemical free disinfection solution for some of the worlds most complex water quality problems.

The comprehensive in-house testing area facilitates optimal conditions for research, development, and innovation. With the ability to run full scale pilot trials and a 40 ft research container to support local testing combined with cutting edge engineering, makes us confident that ULTRAAQUA is the right partner for your organization.

This ultimately allows ULTRAAQUA to position itself amongst the industry leaders within UV disinfection, supplying customers with the best available solutions.

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UV DISINFECTION SYSTEMS

SERVICE & SUPPORT

ULTRAAQUA IS A GLOBAL COMPANY OFFERING WORLDWIDE SERVICE AND SUPPORT, WITH ITS HEAD OFFICE BASED IN DENMARK.

With operations in over 120 countries and an install base of 10.000 systems, ULTRAAQUA is able to offer extensive support regarding installation and maintenance with its wide-ranging network of regional offices.

The technical support team in our head office provides 24-hour remote service upon agreement, ensuring that potential emergencies are avoided.

At ULTRAAQUA, we wish to provide a complete product experience for our customers, from the very start of determining requirements to ongoing operational maintenance. This means that our responsibility does not stop after the UV system reaches its destination. By establishing a close collaboration with all clients, a streamlined process is effectively ensured throughout all post-installation activities.

Our support services include, but are not limited to:

- General technical support
- Advanced 24-hour support upon agreement
- Spare part ordering and shipping services
- Commissioning
- On-site training
- On-site technical support

If needed, qualified engineers are available for on-site training and technical support, being able to assist in setting up the entire system. Extensive information and technical knowledge is always provided, to ensure maximum performance and system reliability.

UV SYSTEM	MR1-75PP STD	MR2-75PP STD	MR3-75PP STD	MR4-75PP STD	MR1-75PP ADV	MR2-75PP ADV	MR3-75PP ADV
Product ID	22052	22060	22070	22080	22052	22060	22070
Approvals	CE (Option UL/ cUL)						
UV LAMPS & MONITORING							
Lamp Number	1	2	3	4	1	2	3
ULTRATHERM™ LPHO Lamp	75 W						
Guaranteed Lamp Lifetime	9 000 Hours						
UV Monitoring	N/A				UV Intensity Sensor Non-Corrosive PTFE		
Variable Power	N/A				50-100%		
UV CHAMBER							
Connection Size	1½" BSP	3" BSP	3" BSP	3" BSP	1½" BSP	3" BSP	3" BSP
Connection Type	PN10						
Design Pressure	8 Bar	6 Bar	6 Bar	6 Bar	8 Bar	6 Bar	6 Bar
Chamber Material	Non-Corrosive UV-Stabilized Polypropylene (Option PEHD)						
Internal & External Finish	Machined						
Lamp/Wiper Access Single Ended	Yes						
Quartz Type	High Purity Fused Quartz Transmittance >95%						
Mounting	Free Standing (Option Vertical Duplex Stand)						
ULTRAWIPER™ System	N/A						
Temperature Probe	PTC Sensor						
Vent & Drain Ports	N/A	½"	½"	½"	N/A	½"	½"
Ingress Protection	IP68						
Installation	Horizontal / Vertical						
Minor Wetted Parts	FDA Approved PTFE, PVDF, VITON						
CONTROL CABINET							
Cabinet Material	GFRP (Option SS304/SS316)						
Cabinet Sizes (H x W x D)	400 x 300 x 210 mm	400 x 300 x 210 mm	600 x 400 x 210 mm				
Cable Length	4 Meters (Max. 30 Meters)						
Installation & Ambient	Wallmount 0-40 °C		Wallmount 0-35 °C	Wallmount 0-40 °C			
Ingress Protection	IP65						
Thermal Control	Passive Dissipation (Option Fan / AC / Heat Exchanger)						
Control Logic	N/A				Microprocessor		
Interface/HMI	Status LED Indicators & Hour Counter				4 Line LCD with System State Indication		
External Wiring	N/A				Remote ON/OFF, Safety ON/OFF, System Status, Alarm		
Power Consumption	0,08 kW	0,16 kW	0,24 kW	0,32 kW	0,08 kW	0,16 W	0,24 W
Power Supply	230VAC +/- 10% +N+PE 50/60Hz						
ADV. CONTROLLER FEATURES							
SCADA Communication	N/A				MODBUS RTU		
Analogue 4-20mA I/O	N/A				Flow Input/UV Irradiance Output		
Log	N/A				Alarms		
UV Dose	N/A				UV Intensity on Display		
UV Dose Alarm	N/A				UV Intensity Pre-Alarm & Alarm		

UV SYSTEM	MR4-75PP ADV
Product ID	22080
Approvals	CE (Option UL/ cUL)

UV LAMPS & MONITORING	
Lamp Number	4
ULTRATHERM™ LPHO Lamp	75 W
Guaranteed Lamp Lifetime	9 000 Hours
UV Monitoring	UV Intensity Sensor Non-Corrosive PTFE
Variable Power	50-100%

UV CHAMBER	
Connection Size	3" BSP
Connection Type	PN10
Design Pressure	6 Bar
Chamber Material	Non-Corrosive UV-Stabilized Polypropylene (Option PEHD)
Internal & External Finish	Machined
Lamp/Wiper Access Single Ended	Yes
Quartz Type	High Purity Fused Quartz Transmittance >95%
Mounting	Free Standing (Option Vertical Duplex Stand)
ULTRAWIPER™ System	N/A
Temperature Probe	PTC Sensor
Vent & Drain Ports	½"
Ingress Protection	IP68
Installation	Horizontal / Vertical
Minor Wetted Parts	FDA Approved PTFE, PVDF, VITON

CONTROL CABINET	
Cabinet Material	GFRP (Option SS304/SS316)
Cabinet Sizes (H x W x D)	600 x 400 x 210 mm
Cable Length	4 Meters (Max. 30 Meters)
Installation & Ambient	Wallmount 0-35 °C
Ingress Protection	IP65
Thermal Control	Passive Dissipation (Option Fan / AC / Heat Exchanger)
Control Logic	Microprocessor
Interface/HMI	4 Line LCD with System State Indication
External Wiring	Remote ON/OFF, Safety ON/OFF, System Status, Alarm
Power Consumption	0,32 kW
Power Supply	230VAC +/- 10% +N+PE 50/60Hz

ADV. CONTROLLER FEATURES	
SCADA Communication	MODBUS RTU
Analogue 4-20mA I/O	Flow Input/UV Irradiance Output
Log	Alarms
UV Dose	UV Intensity on Display
UV Dose Alarm	UV Intensity Pre-Alarm & Alarm

CONTROL CABINET VARIANTS

ONE LAMP STANDARD

ONE LAMP ADVANCED

MULTI LAMP

MULTI LAMP

Specifications are subject to change without notice. Version: 24.1

UV SYSTEM	MR1-220PP STD	MR1-220PP ADV	MR3-220PP	MR4-220PP	MR6-220PP	MR8-220PP
Product ID	22110	22111	22112	22114	22116	22118
Product ID (Incl. ULTRAWIPER)	N/A	N/A	22113	22115	22117	22119
Approvals	CE (Option UL/ cUL)					
UV LAMPS & MONITORING						
Lamp Number	1	1	3	4	6	8
ULTRATHERM™ LPHO Lamp	220 W					
Guaranteed Lamp Lifetime	16 000 Hours					
UV Monitoring	N/A	UV Intensity Sensor Non-Corrosive PTFE				
Variable Power	N/A	50-100%				
UV CHAMBER						
Connection Size	DN80	DN80	DN150	DN150	DN150	DN200
Connection Type	PN10					
Design Pressure	10 Bar	10 Bar	6 Bar (Option 10 Bar)	6 Bar (Option 10 Bar)	5 Bar (Option 10 Bar)	4 Bar (Option 10 Bar)
Chamber Material	Non-Corrosive UV-Stabilized Polypropylene (Option PEHD)					
Internal & External Finish	Machined					
Lamp/Wiper Access Single Ended	Yes					
Quartz Type	High Purity Fused Quartz Transmittance >95%					
Mounting	Free Standing (Option Vertical Duplex Stand)					
ULTRAWIPER™ System	N/A	(Option Automatic Mechanical With PTFE/Fiber Rings (Electrical))				
Temperature Probe	PTC Sensor		1x PT100			
Vent & Drain Ports	½"					
Ingress Protection	IP68					
Installation	Horizontal / Vertical					
Minor Wetted Parts	FDA Approved PTFE, PVDF, VITON					
CONTROL CABINET						
Cabinet Material	GFRP (Option SS304/SS316)					
Cabinet Sizes (H x W x D)	400 x 300 x 210 mm	600 x 400 x 210 mm	800 x 600 x 300 mm	800 x 600 x 300 mm	1000 x 750 x 320 mm	1000 x 1000 x 320 mm
Cable Length	4 Meters (Max. 30 Meters)					
Installation & Ambient	Wallmount 0-40 °C				Wallmount 0-34 °C	
Ingress Protection	IP65					
Thermal Control	Passive Dissipation (Option Fan / AC / Heat Exchanger)					
Control Logic	N/A	Microprocessor	PLC			
Interface/HMI	Status LED Indicators & Hour Counter	4 Line LCD with System State Indication	STD.: 4" ULTRATOUCH™ / ADV.: 7" ULTRATOUCH™			
External Wiring	N/A		Remote ON/OFF, Safety ON/OFF, System Status, Alarm			
Power Consumption	0,2 kW	0,2 kW	0,7 kW	1,0 kW	1,4 kW	1,9 kW
Power Supply	230VAC +/- 10% +N+PE 50/60Hz					
ADV. CONTROLLER FEATURES						
SCADA Communication	N/A	MODBUS RTU	MODBUS TCP/IP / PROFINET (Option I-Device)			
Analogue 4-20mA I/O	N/A	Flow Input/UV Irradiance Output	Flow Input/UV Dose Output/UV Intensity Output (Option UVT Input)			
ULTRADOSE™	N/A	N/A	Automatic UV Dose Pacing 50-100%			
Log	N/A	Alarms	Alarm, Event & Data (UV Dose, UV Intensity & Flow)			
UV Dose	N/A	UV Intensity on Display	Actual UV Dose & Target UV Dose on HMI			
UV Dose Alarm	N/A	UV Intensity Pre-Alarm & Alarm	Pre-Alarm & Alarm			

Specifications are subject to change without notice. Version: 24.1

UV SYSTEM	MR1-350PP STD	MR1-350PP ADV	MR3-350PP	MR4-350PP	MR6-350PP	MR8-350PP	MR12-350PP
Product ID	22210	22211	22215	22220	22230	22240	22250
Product ID (Incl. ULTRAWIPER)	N/A	N/A	22216	22221	22231	22241	22251
Approvals	CE (Option UL/ cUL)						
UV LAMPS & MONITORING							
Lamp Number	1	1	3	4	6	8	12
ULTRATHERM™ LPHO Lamp	350 W						
Guaranteed Lamp Lifetime	16 000 Hours						
UV Monitoring	N/A	UV Intensity Sensor Non-Corrosive PTFE					
Variable Power	N/A	50-100%					
UV CHAMBER							
Connection Size	DN100	DN100	DN150	DN150	DN200	DN250	DN250
Connection Type	PN10						
Design Pressure	10 Bar	10 Bar	6 Bar (Option 10 Bar)	6 Bar (Option 10 Bar)	5 Bar (Option 10 Bar)	4 Bar (Option 10 Bar)	2,5 Bar (Option 10 Bar)
Chamber Material	Non-Corrosive UV-Stabilized Polypropylene (Option PEHD)						
Internal & External Finish	Machined						
Lamp/Wiper Access Single Ended	Yes						
Quartz Type	High Purity Fused Quartz Transmittance >95%						
Mounting	Free Standing (Option Vertical Duplex Stand)						
ULTRAWIPER™ System	N/A	(Option Automatic Mechanical With PTFE/Fiber Rings (Electrical))					
Temperature Probe	PTC Sensor		1x PT100				
Vent & Drain Ports	½"						1"
Ingress Protection	IP68						
Installation	Horizontal / Vertical						
Minor Wetted Parts	FDA Approved PTFE, PVDF, VITON						
CONTROL CABINET							
Cabinet Material	Non-Corrosive GFRP (Option SS304/SS316)						
Cabinet Sizes (H x W x D)	600 x 400 x 210 mm	400 x 600 x 210 mm	800 x 600 x 300 mm	1000 x 750 x 320 mm	1000 x 1000 x 320 mm	1000 x 1000 x 320 mm	1000 x 1250 x 320 mm
Cable Length	4 Meters (Max. 30 Meters)						
Installation & Ambient	Wallmount 0-40 °C	Wallmount 0-40 °C	Wallmount 0-35 °C	Wallmount 0-38 °C	Wallmount 0-35 °C	Wallmount 0-30 °C	Wallmount 0-26 °C
Ingress Protection	IP65						
Thermal Control	Passive Dissipation (Option Fan / AC / Heat Exchanger)						
Control Logic	N/A	Microprocessor	PLC				
Interface/HMI	Status LED indicators	4 Line LCD with System State Indication	STD.: 4" ULTRATOUCH™ / ADV.: 7" ULTRATOUCH™				
External Wiring	N/A	Remote ON/OFF, Safety ON/OFF, System Status, Alarm					
Power Consumption	0,4 kW	0,4 kW	1,1 kW	1,5 kW	2,3 kW	3,0 kW	4,5 kW
Power Supply	230VAC +/- 10% +N+PE 50/60Hz					3x 400VAC +/- 10% +N+PE 50/60Hz	
ADV. CONTROLLER FEATURES							
SCADA Communication	N/A	MODBUS RTU	MODBUS TCP/IP / PROFINET (Option I-Device)				
Analogue 4-20mA I/O	N/A	Flow Input/UV Irradiance Output	Flow Input/UV Dose Output/UV Intensity Output (Option UVT Input)				
ULTRADOSE™	N/A	N/A	Automatic UV Dose Pacing 50-100%				
Log	N/A	Alarms	Alarm, Event & Data (UV Dose, UV Intensity & Flow)				
UV Dose	N/A	UV Intensity on Display	Actual UV Dose & Target UV Dose on HMI				
UV Dose Alarm	N/A	UV Intensity Pre-Alarm & Alarm	Pre-Alarm & Alarm				

Specifications are subject to change without notice. Version: 24.1

UV SYSTEM	MR16-350PP	MR18-350PP	MR20-350PP
Product ID	22260	22342	22291
Product ID (Incl. ULTRAWIPER)	22261	22343	22292
Approvals	CE (Option UL/ cUL)		

UV LAMPS & MONITORING			
Lamp Number	16	18	20
ULTRATHERM™ LPHO Lamp	350 W		
Guaranteed Lamp Lifetime	16 000 Hours		
UV Monitoring	UV Intensity Sensor Non-Corrosive PTFE		
Variable Power	50-100%		

UV CHAMBER	
Connection Size	DN300
Connection Type	PN10
Design Pressure	2 Bar (Option 6 Bar)
Chamber Material	Non-Corrosive UV Stabilized Polypropylene (PP)
Internal & External Finish	Machined
Lamp/Wiper Access Single Ended	Yes
Quartz Type	High Purity Fused Quartz Transmittance >95%
Mounting	Free Standing (Option Vertical Duplex Stand)
ULTRAWIPER™ System	(Option Automatic Mechanical With PTFE/Fiber Rings (Electrical))
Temperature Probe	PT100
Vent & Drain Ports	1"
Ingress Protection	IP68
Installation	Horizontal / Vertical
Minor Wetted Parts	FDA Approved PTFE, PVDF, VITON

CONTROL CABINET			
Cabinet Material	Non-Corrosive GFRP (Option SS304/SS316)		
Cabinet Sizes (H x W x D)	1250 x 1250 x 420 mm		
Cable Length	4 Meters (Max. 30 Meters)		
Installation & Ambient	Wallmount 0-26 °C	Wallmount 0-22 °C (Higher Optional)	Wallmount 0-20 °C (Higher Optional)
Ingress Protection	IP65		
Thermal Control	Passive Dissipation (Option Fan / AC / Heat Exchanger)		
Control Logic	PLC		
Interface/HMI	STD.: 4" ULTRATOUCH™ / ADV.: 7" ULTRATOUCH™		
External Wiring	Remote ON/OFF, Safety ON/OFF, System Status, Alarm		
Power Consumption	6,0 kW	6,8 kW	7,5 kW
Power Supply	3x 400VAC +/- 10% +N+PE 50/60Hz		

ADV. CONTROLLER FEATURES	
SCADA Communication	MODBUS TCP/IP / PROFINET (Option I-Device)
Analogue 4-20mA I/O	Flow Input/UV Dose Output/UV Intensity Output (Option UVT Input)
ULTRADOSE™	Automatic UV Dose Pacing 50-100%
Log	Yes (Alarm, Event & Data (UV Dose, UV Intensity & Flow))
UV Dose	On Display (Actual & Target)
UV Dose Alarm	Pre-Alarm & Alarm

TECHNOLOGY OVERVIEW & VALIDATIONS

THE UV SYSTEMS OF ULTRAAQUA HAS UNDERGONE EXTENSIVE TESTING AND PASSED THE WORLD'S MOST RIGOROUS TESTS FOR VALIDATION AND APPROVAL BY RECOGNIZED LEADING CERTIFICATE PROVIDERS.

This means that reliable and thoroughly tested solutions are guaranteed.

ÖNORM M 5873-1

The SSV Drinking Water Series has been validated by the internationally recognized Austrian standard – **ÖNORM M 5873-1**. This allows the SSV series to offer ultimate security for drinking water disinfection.

DVGW

The **DVGW certification** assures that critical technical requirements are met regarding hygiene, safety, and general functionality. DVGW is an unbiased technical-scientific association based in Germany, specialized in gas and water industries.

AMS

The **AMS (Analog Mixed Signal) verification** ensures that the electronic components are compliant with the latest industry-standard, allowing smooth and quick signal transmission among the electrical components used in data tracking and storage.

ETV

The **ETV-EU verification** is a third-party validation of new innovative environmental technologies, ensuring product credibility for the buyer.

FHI

The **NIPH (Norwegian Institute of Public Health) type approval** ensures that all UV disinfection units meets the requirements for UV dosage. The approval means that ULTRAAQUA is able to distribute selected UV systems in Norway and The Faroe Islands.

Veterinærinstituttet
Norwegian Veterinary Institute

The **Norwegian Veterinary Institute (NVI)** is the national leading center of expertise in biosecurity for fish and land animals. The ULTRABARRIER™ series has been officially approved by the NVI for intake water disinfection in the Norwegian aquaculture industry.

ULTRAAQUA
UV DISINFECTION SYSTEMS

COMPANY HISTORY

ULTRAAQUA IS AN INTERNATIONAL MANUFACTURER OF ADVANCED UV WATER DISINFECTION SYSTEMS FOR A WIDE RANGE OF WATER TREATMENT APPLICATIONS.

The company was founded in 1996 by two Danish scientists, with the mission of solving the increasing global water safety challenges, by combining extensive research, innovation, and technology. Today, more than 10.000 UV disinfection systems have been supplied worldwide, to help create a more sustainable world.

ULTRAAQUA operates through a carefully selected partner network, with activity in more than 120 countries. The partner network has been key to the success of ULTRAAQUA, making it possible to deliver cutting-edge UV disinfection systems across the globe.

Continuous research and innovation activities have made it possible to maintain the position of delivering cutting-edge solutions to clients with diverse requirements in different applications.

Global experience combined with advanced knowledge of dealing with varying customer requirements, ensures an optimal solution to accommodate every client. Combined with a dedicated support experience, a streamlined operational process is guaranteed.

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