# ULTRALOW ULU SERIES

UV DISINFECTION · EFFICIENT AND CHEMICAL-FREE WATER TREATMENT



WE PROTECT YOUR MOST VALUABLE RESOURCE

### **ULTRALOW ULU SERIES**

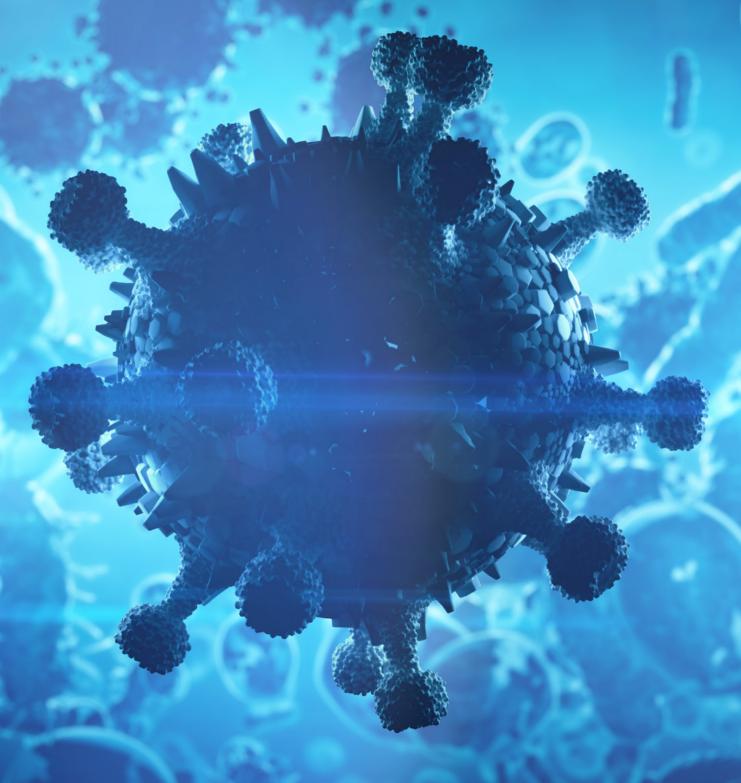
THE ULTRALOW UVT SERIES IS DEVELOPED SPE-**CIFICALLY FOR APPLICATIONS WITH EXTREMELY LOW UV TRANSMISSION (UVT) FROM 2%.** 

THE SMALL DISTANCE BETWEEN THE REACTOR WALLS AND THE QUARTZ SLEEVE ENSURES AN **EVENLY DISTRIBUTED UV LIGHT EXPOSURE FOR** HYDRAULIC OPTIMIZATION. THIS MAKES THE **ULU UV SERIES EXCELLENT FOR DISINFECTION** OF FLUIDS SUCH AS LIQUID SUGAR, WINE, AND **SALT BRINES.** 

### **KEY HIGHLIGHTS**

- Guaranteed 16.000-hour ULTRATHERM™ lamp lifetime
- Optimized for maximum efficiency
- 6 Easy maintenance and installation
- 6 Easily integrated in complex environments
- **6** Complete control with ULTRATOUCH™ control cabinets
- 6 Automated ULTRAWIPER™ quartz cleaning with tailored brush heads
- 6 An extended 5 year guaranteed warranty





### **CORE BENEFITS OF UV**

ENSURING PROPER DRINKING WATER IS A VITAL STEP TO PROTECT THE PUBLIC HEALTH FROM DANGEROUS MICROORGANISMS.

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

Heavily chlorinated drinking water has proven to lead to several health complications such as respiratory diseases. While chlorine has proven to be ineffective against Cryptosporidium and Giardia, UV is able to inactivate these pathogens easily with very low doses. This means that UV treatment is capable of inactivating all bacteria, viruses, molds, and spores that may be present in the drinking water.

Operational efficiency is one of the core drivers within the drinking water market. Many facilities and organizations now invest on new assets that yields return on investment based on their operational savings. This has led to manufacturing having to detail their whole life costs over 20 years. Choosing UV as the disinfection method ensures optimal CAPEX and OPEX 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 ensures complete peace of mind, employing the best available solution for complete biosecurity.





### **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.

### **EXCEPTIONAL LAMP LIFETIME**

The integrated ULTRATHERM™ lamps offers 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.

### **EXCELLENT VERSATILITY**

The ULU UV series offers a high level of customization through its modular design, making it possible to connect as many ULU UV reactors as required, from 2 to 20

### **OPTIMIZED FOR MAXIMUM EFFICIENCY**

In very low UVT environments, standard UV systems are no longer able to eliminate pathogenic microorganisms due to the low transmission of UV light. The placement of the reactor walls and the quartz sleeve in the ULU UV series ensures that the fluids are exposed evenly to the UV light, enabling an optimized dose distribution.

### THE ULTRALOW ULU SERIES MATCHES MOST INSTALLATION REQUIREMENTS





### **CUSTOMIZED SOLUTIONS**

### ULTRAAQUA EMPLOYS AN ENTIRE DEPART-MENT OF ENGINEERS WHO ARE SPECIALIZED IN THE DESIGN AND CONSTRUCTION OF UV SYSTEMS.

Multiple years of experience within relevant applications, makes it possible to alter and adjust any standard UV system to accommodate the 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:

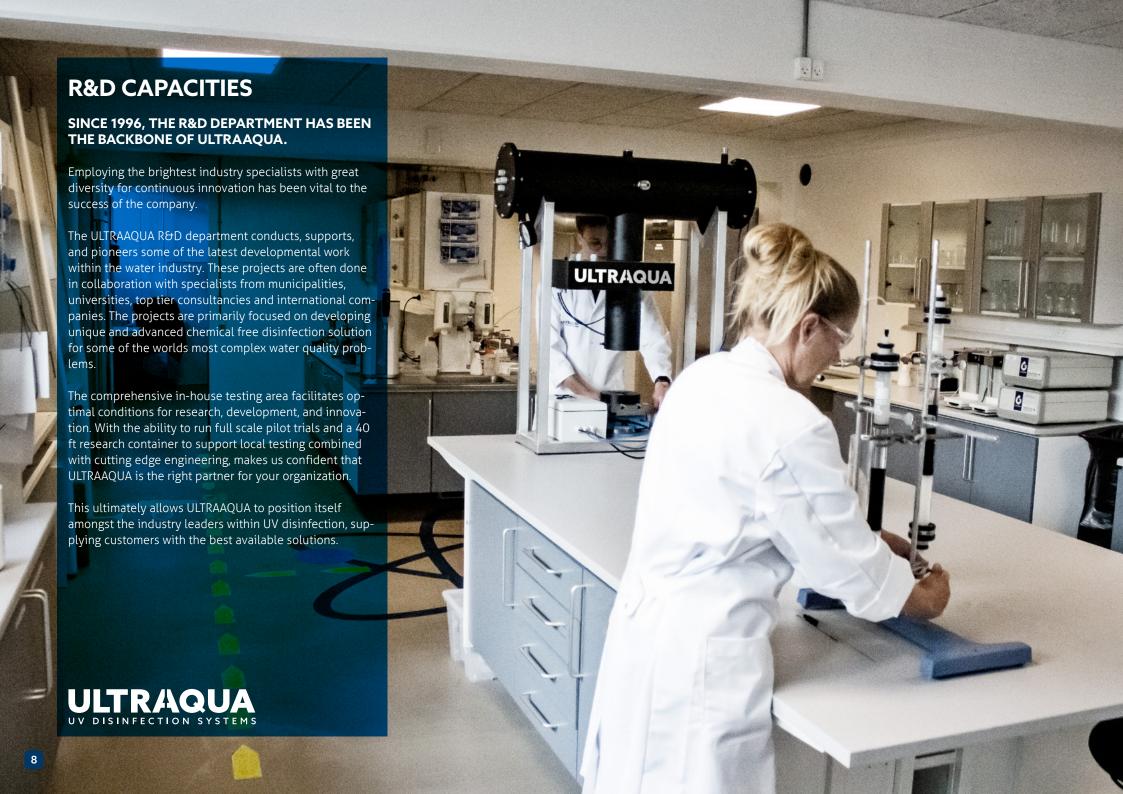
#### **Customized services**

- Integrated CFD Analysis
- Particle tracing modeling analysis
- Oetermining fluence rate
- Physical testing
- Onsite validation testing
- 6 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.



Approvals	8				
Lamp Number         1         1         3         4         6           Curranteed Lamp Lifetime         1200	8				
Lamp Number         1         1         3         4         6           ULTRATHERM™ LPH OLamp         220W	8				
ULTRAMPER** Stem   Same   Same	8				
Guaranteed Lamp Lifettime     16 000 hours       UV Monitoring     Not available     UV Intensity sensor ONORM M5873 certified 55316L       Variable Power     Not available     50-100%       UV CHAMBER       Connection Size     Tri-clamp DN50 (other optional)       Connection Type     DIN32276       Design Pressure     10 bar (option 16 bar)       Chamber Material     \$5316L/ 1 4404 (option Super Duplex)       Internal & External Finish     Electropolished inside/out       Lamp/Wiper Access Single Ended     Yes       Quartz Type     High purity fused quartz transmittance >95%       Mounting     Free standing (option horizontal duplex stand)       ULTRAW/IPER™ System     Not available       Temperature Probe     1x PT100       Vent & Drain Ports     1x PT100       Vent & Drain Ports     1x PT100       Vent & Drain Ports     Post       Installation     Modular, Horizontal/Vertical       Minor Wetted Parts     FDA approved PTEE, PVDF, VITON       CONTROL CABINET       Cabinet Sizes     400x300x210mm     400x600x210mm     800x600x300mm     800x600x300mm     800x600x300mm       Cabinet Sizes     400x300x210mm     400x600x210mm     800x600x300mm     800x600x300mm     800x600x300mm       Cabinet Sizes <td< td=""><td></td></td<>					
UV Monitoring     Not available     UV Intensity sensor ONORM MS873 certified SS316L       Variable Power     Not available     50-100%       UV CHAMBER       Connection Size     Tri-clamp DN50 (other optional)       Connection Type     DIN32676       Design Pressure     10 bar (option 16 bar)       Chamber Material     \$\$3316L/1.4404 (option Super Duplex)       Internal & Statemal Finish     Electropolished inside/out       Lamp/Wiper Access Single Ended     Yes       Quartz Type     High purity fused quartz transmittance >95%       Mounting     Free standing (option horizontal duplex stand)       ULTRAW/PER™ System     Not available       Temperature Probe     1x PT100       Vent & Drain Ports     1x PF100       Vent & Drain Ports     1y.**       Ingress Protection     Modular, Horizontal/Vertical       Minor Wetted Parts     FDA approved PTFE, PVDF, VITON       CONTROC CABINET       Cabinet Sizes     400x300x210mm     400x600x210mm     800x600x300mm     800x600x300mm     800x600x300mm       Cabinet Sizes     400x300x210mm     400x600x210mm     800x600x300mm     800x600x300mm     800x600x300mm       Cabinet Sizes     400x40x210mm     400x60x210mm     400x60x210mm     400x60x210mn-condensing					
Vol CHAMBER           Connection Size         Tri-clamp DN50 (other optional)           Connection Type         DIN32676           Design Pressure         10 bar (option 16 bar)           Chamber Material         Electropolished inside/out           Lamp/Wiper Access Single Ended         Yes           Quartz Type         High purity fused quartz transmittance >95%           Mounting         Free standing (option horizontal duplex stand)           ULTRAWIPER™ System         Not available           Temperature Probe         Not available           Vent ∂ Drain Ports         1 x PT100           Vent ∂ Drain Ports         Modular, Horizontal/Vertical           Installation         Modular, Horizontal/Vertical           Minor Wetted Parts         FDA approved PTFE, PVDF, VITON           CONTROL CABINET           Cabinet Sizes         400×300×210mm         400×600×210mm         800×600×300mm         800×600×300mm           Cabinet Sizes         400×300×210mm         400×600×210mm         800×600×300mm         800×600×300mm           Cabinet Sizes         400×300×210mm         400×600×210mm         800×600×300mm         800×600×300mm					
UV CHAMBER  Connection Size					
Connection Size					
Connection Size  Connection Type  Design Pressure  Chamber Material Internal & SS316L/ 1.4404 (option Super Duplex)  Internal & External Finish  Lemp/Wiper Access Single Ended  Quartz Type  High purity fused quartz transmittance >95%  Mounting  Free standing (option horizontal duplex stand)  ULTRAWIPER™ System  ULTRAWIPER™ System  Free standing (option horizontal duplex stand)  ULTRAWIPER™ System  For an internal Binish  Internal & Sizes Moutavailable  Temperature Probe  Free standing (option horizontal duplex stand)  ULTRAWIPER™ System  Free Standing (option horizontal duplex stand)  Would standing (option horizontal duplex stand)  ULTRAWIPER™ System  Free Standing (option horizontal duplex stand)  Would standing (option horizontal duplex stand)  ULTRAWIPER™ System  Free Standing (option horizontal duplex stand)  Would standing (option horizontal dupl					
Connection Type  Design Pressure  Chamber Material  Chamber Material  Chamber Material  Internal & Statistic Multiplier Access Single Ended  Cupartz Type  Mounting  Free standing (option horizontal duplex stand)  ULTRAWIPER* System  Internal Probe  Prese standing (option horizontal duplex stand)  ULTRAWIPER* System  Internal Probe					
Design Pressure Chamber Material Chambe					
Chamber Material  Internal & S\$316L/ 1.4404 (option Super Duplex)  Internal & External Finish  Lamp/Wiper Access Single Ended  Quartz Type  High purity fused quartz transmittance >95%  Mounting  Free standing (option horizontal duplex stand)  ULTRAWIPER™ System  Not available  Temperature Probe  Internal Probe  Yes  Not available  Temperature Probe  Internation Of British Of Standard Of					
Internal & External Finish       Electropolished inside/out         Lamp/Wiper Access Single Ended       Yes         Quartz Type       High purity fused quartz transmittance >95%         Mounting       Free standing (option horizontal duplex stand)         ULTRAWIPER™ System       Not available         Temperature Probe       1x PT100         Vent & Drain Ports       1x PT100         Vent & Drain Ports       1P65         Installation       Modular, Horizontal/Vertical         Minor Wetted Parts       FDA approved PTFE, PVDF, VITON         CONTROL CABINET         Cabinet Material       GFRP (option SS304/SS316)         Cabinet Sizes       400x300x210mm       400x600x300mm       800x600x300mm       800x600x300m					
Lamp/Wiper Access Single Ended Yes   Quartz Type High purity fused quartz transmittance >95%   Mounting Free standing (option horizontal duplex stand)   ULTRAWIPER™ System Not available   Temperature Probe 1x PT100   Vent & Drain Ports 1x PT00   Vent & Drain Ports IP65   Installation Modular, Horizontal/Vertical   Minor Wetted Parts FDA approved PTFE, PVDF, VITON    CONTROL CABINET  Cabinet Material  Adox300x210mm 400x600x210mm 800x600x300mm 8					
Quartz Type       High purity fused quartz transmittance >95%         Mounting       Free standing (option horizontal duplex stand)         ULTRAW/PER™ System       Not available         Temperature Probe       1x PT100         Vent & Drain Ports       1x PT100         Vent & Drain Ports       1P65         Installation       Modular, Horizontal/Vertical         Minor Wetted Parts       FDA approved PTFE, PVDF, VITON         CONTROL CABINET         Cabinet Material       GFRP (option SS304/SS316)         Cabinet Sizes       400x300x210mm       400x600x300mm       800x600x300mm       800x600x300mm         Cable Length       4 meters (max. 20 meters)         Installation & Ambient       Wallmount 0-40 °C non-condensing					
Mounting Free standing (option horizontal duplex stand)  ULTRAWIPER™ System  Not available  Temperature Probe  1x PT100  Vent & Drain Ports  Ingress Protection  IP65  Installation  Modular, Horizontal/Vertical Minor Wetted Parts  FDA approved PTFE, PVDF, VITON   CONTROL CABINET  Cabinet Material  Cabinet Sizes  400x300x210mm  400x600x210mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  Wallmount 0-40 °C non-condensing					
ULTRAWIPER™ System  Temperature Probe  1x PT100  Vent & Drain Ports  Vent & Drain Ports  Ingress Protection  IP65  Installation  Modular, Horizontal/Vertical  Minor Wetted Parts  FDA approved PTFE, PVDF, VITON   CONTROL CABINET  Cabinet Material  Cabinet Sizes  400x300x210mm  400x600x210mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  800x600x300mm  Wallmount 0-40 °C non-condensing					
Temperature Probe  Vent & Drain Ports  Ingress Protection  Ingress Protection  Installation  Minor Wetted Parts  CONTROL CABINET  Cabinet Material  Cabinet Sizes  400x300x210mm  400x600x210mm  400x600x210mm  800x600x300mm	Free standing (option horizontal duplex stand)				
Vent & Drain Ports       ½"         Ingress Protection       IP65         Installation       Modular, Horizontal/Vertical         Minor Wetted Parts       FDA approved PTFE, PVDF, VITON         CONTROL CABINET         Cabinet Material       GFRP (option SS304/SS316)         Cabinet Sizes       400x300x210mm       400x600x210mm       800x600x300mm       800x600x300mm       800x600x300mm         Cable Length       4 meters (max. 20 meters)         Installation & Ambient       Wallmount 0-40 °C non-condensing	Not available				
Ingress Protection IP65 Installation Modular, Horizontal/Vertical Minor Wetted Parts FDA approved PTFE, PVDF, VITON  CONTROL CABINET  Cabinet Material GFRP (option SS304/SS316) Cabinet Sizes 400x300x210mm 400x600x210mm 800x600x300mm 800x600x300mm 800x600x300mm Cable Length Horizontal Wallmount 0-40 °C Non-condensing	1x PT100				
Installation Modular, Horizontal/Vertical Minor Wetted Parts FDA approved PTFE, PVDF, VITON  CONTROL CABINET  Cabinet Material GFRP (option SS304/SS316)  Cabinet Sizes 400x300x210mm 400x600x210mm 800x600x300mm 800x600x300mm 800x600x300mm  Cable Length 4 meters (max. 20 meters)  Installation & Ambient Wallmount 0-40 °C non-condensing	1/2"				
FDA approved PTFE, PVDF, VITON  CONTROL CABINET  Cabinet Material GFRP (option SS304/SS316)  Cabinet Sizes 400x300x210mm 400x600x210mm 800x600x300mm 800x600x300mm 800x600x300mm  Cable Length 4 meters (max. 20 meters)  Installation & Ambient Wallmount 0-40 °C non-condensing	IP65				
CONTROL CABINET  Cabinet Material GFRP (option SS304/SS316)  Cabinet Sizes 400x300x210mm 400x600x210mm 800x600x300mm 800x600x300mm 800x600x300mm  Cable Length 4 meters (max. 20 meters)  Installation & Mallmount 0-40 °C non-condensing	Modular, Horizontal/Vertical				
Cabinet Material GFRP (option SS304/SS316) Cabinet Sizes 400x300x210mm 400x600x210mm 800x600x300mm 800x600x300mm 800x600x300mm Cable Length 4 meters (max. 20 meters) Installation & Ambient Wallmount 0-40 °C Wallmount 0-40 °C non-condensing	FDA approved PTFE, PVDF, VITON				
Cabinet Material GFRP (option SS304/SS316) Cabinet Sizes 400x300x210mm 400x600x210mm 800x600x300mm 800x600x300mm 800x600x300mm Cable Length 4 meters (max. 20 meters) Installation & Ambient Wallmount 0-40 °C non-condensing					
Cabinet Sizes 400x300x210mm 400x600x210mm 800x600x300mm 800x600x300mm 800x600x300mm  Cable Length 4 meters (max. 20 meters)  Installation & Ambient Wallmount 0-40 °C  Wallmount 0-40 °C non-condensing					
Cable Length 4 meters (max. 20 meters)  Installation & Ambient Wallmount 0-40 °C Wallmount 0-40 °C non-condensing	200600700				
Installation & Ambient Wallmount 0-40 °C Wallmount 0-40 °C Non-condensing	800x600x300mm				
Ingress Protection 1P65 IP54 (Option P65/NemA4A)					
Thermal Control Passive dissipation (option Fan/AC/Heat exchanger) Fan with filter (option AC/Heat exchanger)					
Control Logic Microprocessor PLC  Interface/HMI Status LED indicators & hour counter 4 line LCD with system state indication 7" ULTRATOUCH™					
External Wiring         Remote ON/OFF, System Status, Alarm           Power Consumption         0,2 kW         0,2 kW         1,0 kW         1,4 kW	1,9 kW				
Power Consumption 0,2 kW 0,2 kW 0,7 kW 1,0 kW 1,4 kW  Power Supply 230VAC +/- 10% +N+PE	1,7 KVV				
50/60Hz					
30/00112					
ADV. CONTROLLER FEATURES					
SCADA Communication MODBUS RTU MODBUS TCP/IP (option PROFINET)					
Analogue 4-20mA I/O Flow input/UV irradiance output Flow input/UV dose output (option UVT input)					
ULTRADOSE™  Automatic UV dose pacing 50-100%					
Event Log Alarms UV dose, UV intensity, Flow					
UV Dose On Display, UV Intensity On HMI, actual UV Dose and target UV Dose					
UV Dose Alarm  UV Intensity pre-alarm and Alarm  Pre-alarm and Alarm					

UV SYSTEM	MR1-350SS STD ULU	MR1-350SS ADV ULU	MR3-350SS ULU	MR4-350SS ULU	MR6-350SS ULU	MR8-350SS ULU	MR12-350SS ULU
Approvals				CE (option UL/ cUL)			

UV LAMPS & MONITORING							
Lamp Number	1	1	3	4	6	8	12
ULTRATHERM™ LPHO Lamp	350W						
Guaranteed Lamp Lifetime	16 000 hours						
UV Monitoring	Not available UV Intensity sensor ÖNORM M5873 certified (option non-corrosive PTFE)						
Variable Power	Not available			50-100%			

UV CHAMBER			
Connection Size		Tri slama DNFO (abbas actional)	
		Tri-clamp DN50 (other optional)	
Connection Type		DIN32676	
Design Pressure		10 bar (option 16 bar)	
Chamber Material		SS316L/ 1.4404 (option Super Duplex)	
Internal & External Finish		Electropolished inside/out	
Lamp/Wiper Access Single Ended		Yes	
Quartz Type		High purity fused quartz transmittance >95%	
Mounting		Free standing (option horizontal SS316 stand)	
ULTRAWIPER™ System	Not available	Optional Automatic mechanical with PTFE/fiber rings (electrical)	
Temperature Probe		PT100	
Vent & Drain Ports		⅓"	1"
Ingress Protection		IP65	
Installation		Modular, Horizontal/Vertical	
Minor Wetted Parts		FDA approved PTFE, PVDF, VITON	

CONTROL CABINET							
				CEDD ( CC70 / (CC74 C)			
Cabinet Material				GFRP (option SS304/SS316)			
Cabinet Sizes	400x600x210mm	400x600x210mm	800x600x300mm	800x600x300mm	800x600x300mm	1000x750x320mm	1000x750x320mm
Cable Length				4 meters (max. 30 meters)			
Installation & Ambient	Wallmo	ount 0-40 °C		V	Wallmount 0-40 °C non-condensin	g	
Ingress Protection	IP65				IP54 (option IP65/NEMA4X)		
Thermal Control	Passive dissipation (option Fan/AC/Heat exchanger)		Fan with filter (option AC/Heat exchanger)				
Control Logic		Microprocessor			PLC		
Interface/HMI	Status LED indicators	4 line LCD with system state indication			7" ULTRATOUCH™		
External Wiring		'	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			3x400VAC +	- 10% +N+PE
			50/60Hz			50/6	50Hz
Power Supply							

ADV. CONTROLLER FEATURES		
SCADA Communication	MODBUS RTU	MODBUS TCP/IP (option PROFINET)
Analogue 4-20mA I/O	Flow input/UV irradiance output	Flow input/UV dose output (option UVT input)
ULTRADOSE™		Automatic UV dose pacing 50-100%
Event Log	Alarms	UV dose, UV intensity, Flow
UV Dose	On Display, UV Intensity	On HMI, actual UV Dose and target UV Dose
UV Dose alarm	UV Intensity pre-alarm and alarm	Pre-alarm and Alarm

UV SYSTEM	MR16-350SS ULU	MR18-350SS ULU	MR20-350SS ULU
Approvals		CE (option UL/ cUL)	

UV LAMPS & MONITORING			
Lamp Number	16	18	20
ULTRATHERM™ LPHO Lamp		350W	
Guaranteed Lamp Lifetime		16 000 hours	
UV Monitoring	UV Intensity sensor ÖNORM M5873 certified (option non-corrosive PTFE)		
Variable Power		50-100%	

UV CHAMBER	
Connection Size	Tri-clamp DN50 (other optional)
Connection Type	DIN32676
Design Pressure	10 bar (option 16 bar)
Chamber Material	SS316L/ 1.4404 (option Super Duplex)
Internal & External Finish	Electropolished inside/out
Lamp/Wiper Access Single Ended	Yes
Quartz Type	High purity fused quartz transmittance >95%
Mounting	Free standing (option horizontal SS316 stand)
ULTRAWIPER™ System	Optional Automatic mechanical with PTFE/fiber rings (electrical)
Temperature Probe	PT100
Vent & Drain Ports	1"
Ingress Protection	IP65
Installation	Modular, Horizontal/Vertical
Minor Wetted Parts	FDA approved PTFE, PVDF, VITON

CONTROL CABINET				
Cabinet Material	GFRP (option SS304/SS316)			
Cabinet Sizes	1000x1000x320mm 1000x1250x320mm 1000x1250x320mm			
Cable Length	4 meters (max. 30 meters)			
Installation & Ambient	Wallmount 0-40 ℃ non-condensing			
Ingress Protection	IP54 (option IP65/NEMA4X)			
Thermal Control	Fan with filter (option AC/Heat exchanger)			
Control Logic	PLC			
Interface/HMI	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		3x400VAC +/- 10% N+PE		
		50/60Hz		

ADV. CONTROLLER FEATURES	
SCADA Communication	MODBUS TCP/IP (option PROFINET)
Analogue 4-20mA I/O	Flow input/UV dose output (option UVT input)
ULTRADOSE™	Automatic UV dose pacing 50-100%
Event Log	UV dose, UV intensity, Flow
UV Dose	On HMI, actual UV Dose and target UV Dose
UV Dose alarm	Pre-alarm and Alarm

### **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 the extensive network of regional offices.

The technical support team in our head office provides 24-hour remote service upon agreement, ensuring complete protection to avoid potential emergencies.

At ULTRAAQUA, we wish to provide a complete product experience for our customers, from the very start of determining requirements to the 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:

- **6** General technical support
- 6 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.



### **COMPANY HISTORY**

ULTRAAQUA IS AN INTERNATIONAL MAN-UFACTURER OF ADVANCED UV WATER DIS-INFECTION 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 has 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.

The validity, experience, and trustworthiness are proven through our wide range of acquired certificates, patents, and trademarks





## TECHNOLOGY OVERVIEW & VALIDATIONS



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



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.



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.