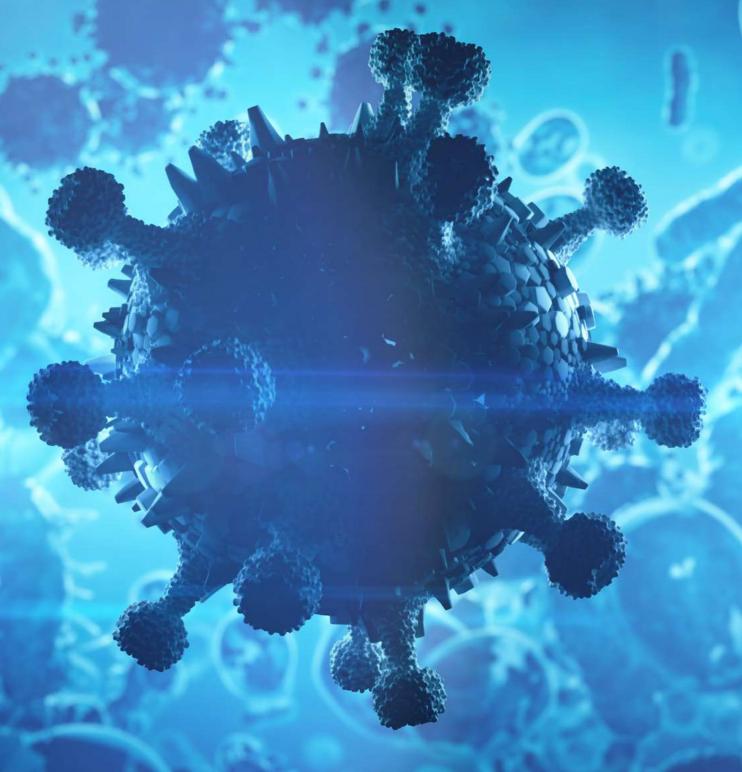
ULTRAQUBE SS SERIES (6-48)

OZONE OXIDATION . EFFICIENT AND CHEMICAL-FREE WATER TREATMENT







CORE BENEFITS OF OZONE

OZONE TECHNOLOGY IS A GLOBALLY RECOGNIZED SOLUTION FOR WATER DISINFECTION, EFFECTIVELY OXIDIZING A WIDE RANGE OF CONTAMINANTS, INCLUDING BACTERIA, VIRUSES, AS WELL AS ORGANIC AND INORGANIC SUBSTANCES.

The need for economical and effective solutions to provide clean water is at an all-time high and continuously increasing. Ozone treatment addresses this complex issue, meeting the most stringent requirements for bacteria and virus protection, as well as improving the overall quality of water.

Ozone technology provides an effective solution across various water qualities and applications, being one of the strongest oxidizing agents available for water treatment. The broad disinfection spectrum makes ozone extremely efficient against a wide range of microorganisms to provide a high level of biosecurity.

With the proper installation conditions, ozone disinfection leaves no chemical residue, as it decomposes back into oxygen. This makes facilities worldwide able to reduce their dependency on chemical treatment, leading to both environmental benefits and potential cost savings.

ULTRAAQUA ozone disinfection systems offers market-leading ozone efficiency while being thoroughly cost-optimized. The tailored design allows for comprehensive scalability and modularity, allowing flexibility to adjust for additional demand.

ULTRAQUA

ROBUST INNOVATIVE DESIGN

The selection of high quality components ensures robustness and durability that lets the ULTRAQUBE endure the test of time.



OXYGEN VALVE

The valve closes automatically upon emergency stop and when no gas flow is required for increased safety and to save gas.

SAMPLE PORT

Easy integration with connection of an external gas analyser, allowing to adjust the gas flow on concentration.

COOLING WATER VALVE

The cooling water valve closes automatically when no cooling water is required.

COMPACT DESIGN

The ULTRAQUBE features a compact innovative reactor design that allows easy integration in complex environments.

AUTOMATED ACCURATE DOSING

The dosing is automatically controlled by Redox or flow values.

OPTIMIZED OZONE EFFICIENCY

The ULTRAQUBE™ features energy-efficient high-concentration ozone technology, with each integrated inverter producing 88 grams of ozone per hour.

SCALABLE AND FLEXIBLE

The integrated inverter produces 88 grams of ozone per hour. If the demand increases, additional modules can be integrated to meet the requirements.





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 tailor the individual ozone system to accommodate specific requirements.

As ozone systems consist of several components which each contributes to the effectiveness and efficiency of the system, the needs for customization can vary from gas distribution management to cooling modules. This makes the ULTRAAQUA design department function as a consulting agency, working towards an optimized customized solution.

The following possibilities are available for all customized ozone systems:

Customized products & services

- Custom Ozone systems for advanced applications
- Physical testing
- Onsite validation testing
- Advanced Ozone disinfection support

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 Ozone and UV disinfection, supplying customers with the best available solutions.

ULTRAQUA





OZONE PLUG & PLAY SKID SOLUTION

WITH A CUSTOM ULTRAQUBE SKID SOLUTION, YOU CAN REAP THE BENEFITS OF OZONE WATER TREATMENT IN JUST A FEW SIMPLE STEPS.

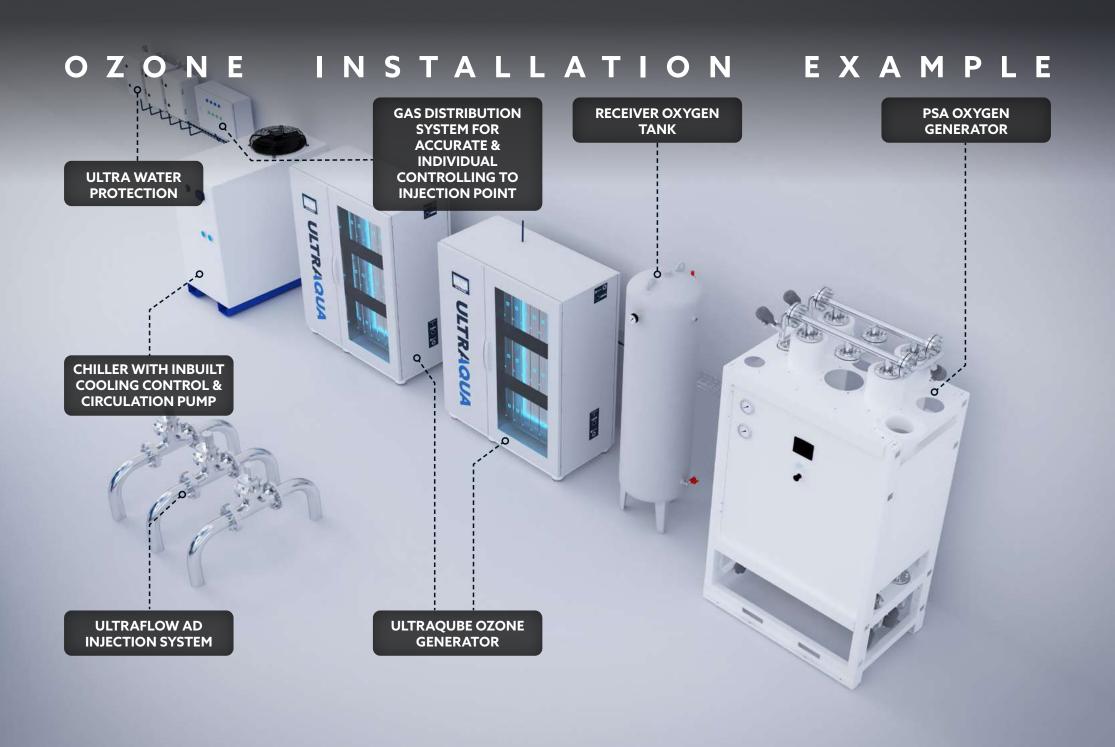
ULTRAQUBE Skid solutions are designed for easy straightforward installation. As the skid merely requires a water and power supply, the existing water treatment process can be improved significantly in a simple quick manner.

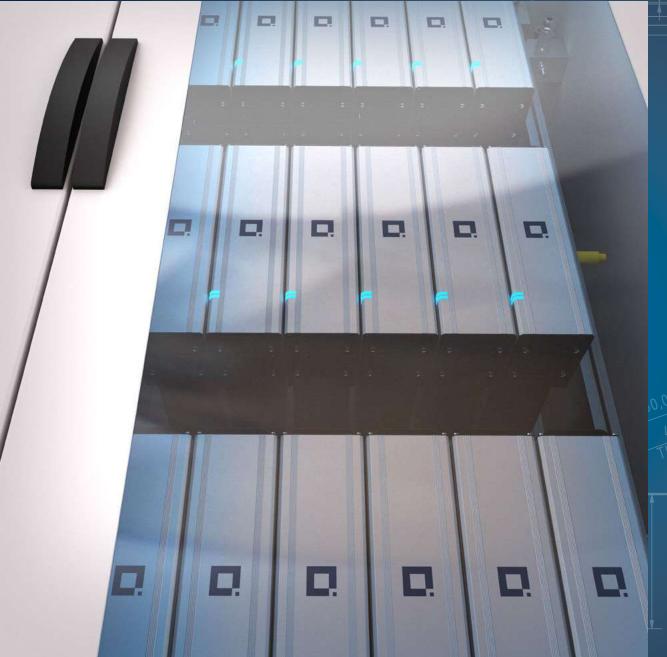
Choosing a skid solution can significantly reduce the general equipment costs dependent on the existing water treatment setup. Every skid solution comes as a customized solution that matches the exact customer requirements for ozone output capacity.

CUSTOM SKID SOLUTION EXAMPLE:

- ULTRAQUBE Ozone Generator
- PSA Oxygen Generator
- Chiller
- 6 Injection pipe in various sizes
- Ambient ozone alarm
- Automatic ozone dosing due to redox, flow or other analog sensors

(The image displayed on this page represents this example)





SCALABILITY & MODULARITY

The ULTRAQUBE is scalable with an integrated inverter that produces 88 grams of ozone per hour.

If the demand increases, additional modules can be integrated to meet the requirements.

- 6 230 / 400 VAC
- Cooling water up to 30°C
- Beijer/Siemens Control System 7" HMI

Frame Size 2 (6 modules) - (18 modules) Frame Size 3 (12 modules) - (36 modules) Frame Size 4 (24 modules) - (48 modules)

- 36 reactors = 3,2 kg O3/hour
- 48 reactors = 4,2 kg O3/hour

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PERFORMANCE / CONC.	ULTRAQUBE-1 SS	ULTRAQUBE-2 SS	ULTRAQUBE-3 SS	ULTRAQUBE-4 SS	ULTRAQUBE-5 SS
140 g/Nm³ 10% wt/wt	88 g/hr (4.66 lbs/day)	176 g/hr (9.31 lbs/day)	264 g/hr (13.97 lbs/day)	352 g/hr (18.62 lbs/day)	440 g/hr (23.28 lbs/day)
200 g/Nm ³ 14% wt/wt	74 g/hr (3.92 lbs/day)	150 g/hr (7.94 lbs/day)	224 g/hr (11.85 lbs/day)	300 g/hr (15.87 lbs/day)	376 g/hr (19.89 lbs/day)
250 g/Nm³ 17,5% wt/wt	52 g/hr (2,75 lbs/day)	106 g/hr (5.61 lbs/day)	160 g/hr (8.47 lbs/day)	214 g/hr (11.32 lbs/day)	268 g/hr (14.18 lbs/day)
300 g/Nm³ 20% wt/wt	40 g/hr (2.12 lbs/day)	82 g/hr (4.34 lbs/day)	124 g/hr (6.56 lbs/day)	166 g/hr (8.78 lbs/day)	208 g/hr (11.01 lbs/day)

CABINET SPECIFICATIONS							
Weight	43 kg / 95 lbs	50 kg / 110 lbs	57 kg / 126 lbs	64 kg / 141 lbs	71 kg / 157 lbs		
Length		500 mm / 19.7 in					
Width			650 mm / 25.6 in				
Height	650 mm / 25.6 in						
Ingress Protection	IP65 / NEMA 4X						
Temperature			5-40° C				
Humidity			< 95% Non-Condensing				
Noise Level			< 53dB				
Cabinet Material			Stainless Steel (SS) 316L				

ELECTRICAL SPECIFICATIONS	S							
Power (100%)	0.75 kW	1.5 kW	2.25 kW	3.0 kW	3.75 kW			
Energy Consumption			<8.5 kW per kg O³ / 3,63 kW/lbs*	r				
Power Supply		3x400V + N + PE, AC 50 / 60 Hz						
Power Factor		0.95						
Control Range			20-100%					
Circuit Breaker Type - Power Supply		Use C-Characteristic Fuses on the Incoming Power Supply						
SCADA Communication			MODBUS TCP					

 $^{^{\}star}$ At an ozone gas concentration of 140 g/Nm³ $\,$ and cooling water temperature at 12°C.

FEED GAS SPECIFICATIONS					
Feed Gas Amount	0.65 m³/hr (23 ft³/hr)	1.3 m³/hr (46 ft³/hr)	1.95 m³/hr (69 ft³/hr)	2.6 m ³ /hr (92 ft ³ /hr)	3.25 m³/hr (115 ft³/hr)
Max Gas Pressure at Inlet			3 bar(g) / 43,5 psi(g)		
Oxygen Purity			>92%		
Oxygen Dew Point			<-40°C / <-40°F		
Oxygen Connector			1/4 Internal Threaded BSP		

COOLING SPECIFICATIONS								
Min. Cooling Water Flow	0.12 m³/hr (4,24 ft³/hr)	0.24 m³/hr (8,47 ft³/hr)	0.36 m³/hr (12,71 ft³/hr)	0.48 m³/hr (16,95 ft³/hr)	0.6 m³/hr (21,19 ft³/hr)			
Cooling Demand	0.7 kW	1.4 kW	2.1 kW	2.8 kW	3.5 kW			
Cooling Water Temp. Range			2-30°C / 36 - 86°F					
Max Cooling Water Pressure			6 bar(g) / 87 psi(g)					
Cooling Water Connection	1⁄2" Internal Threaded BSP							
Cooling Agent Composition	30 % Ethylene Glycol and 70 % Water							
Water Hardness	< 10° dH / < 9,5 gpg							
Water Quality		Drinkii	ng Water (98/83/EC), Closed Loop	System				
Target Temp. Ozone Generator			12°C / 54°F					

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PERFORMANCE / CONC.	ULTRAQUBE-6 SS	ULTRAQUBE-7 SS	ULTRAQUBE-8 SS	ULTRAQUBE-9 SS	ULTRAQUBE-10 SS	ULTRAQUBE-11 SS
140 g/Nm³ 10% wt/wt	528 g/hr (27.94 lbs/day)	616 g/hr (32.59 lbs/day)	704 g/hr (37.25 lbs/day)	792 g/hr (41.91 lbs/day)	880 g/hr (46.56 lbs/day)	968 g/hr (51.22 lbs/day)
200 g/Nm³ 14% wt/wt	450 g/hr (23.81 lbs/day)	526 g/hr (27.83 lbs/day)	602 g/hr (31.85 lbs/day)	676 g/hr (35.77 lbs/day)	752 g/hr (39.79 lbs/day)	828 g/hr (43.81 lbs/day)
250 g/Nm³ 17,5% wt/wt	322 g/hr (17.04 lbs/day)	376 g/hr (19.89 lbs/day)	430 g/hr (22.75 lbs/day)	484 g/hr (25.61 lbs/day)	538 g/hr (28.47 lbs/day)	592 g/hr (31.32 lbs/day)
300 g/Nm ³ 20% wt/wt	250 g/hr (13.23 lbs/day)	292 g/hr (15.45 lbs/day)	334 g/hr (17.67 lbs/day)	376 g/hr (19.89 lbs/day)	418 g/hr (22.12 lbs/day)	460 g/hr (24.34 lbs/day)

CABINET SPECIFICATIONS								
Weight	111 kg / 245 lbs	130 kg / 285 lbs	148 kg / 326 lbs	167 kg / 367 lbs	185 kg / 408 lbs	204 kg / 449 lbs		
Length			400 mm	/ 15.7 in				
Width			1025 mm	/ 40.4 in				
Height	1710 mm / 67.3 in							
Ingress Protection	IP65 / NEMA 4X							
Temperature		5-40° C						
Humidity		< 95% Non-Condensing						
Noise Level	< 53dB							
Cabinet Material			Stainless Ste	el (SS) 316L				

ELECTRICAL SPECIFICATIONS	S							
Power (100%)	4.5 kW	5.25 kW	6.0 kW	6.75 kW	7.5 kW	8.25 kW		
Energy Consumption			<8.5 kW per kg	O ³ / 3,63 kW/lbs*				
Power Supply		3x400V + N + PE, AC 50 / 60 Hz						
Power Factor		0.95						
Control Range			20-	100%				
Circuit Breaker Type - Power Supply		Use C-Characteristic Fuses on the Incoming Power Supply						
SCADA Communication			MOD	BUS TCP				

^{*} At an ozone gas concentration of 140 g/Nm³ and cooling water temperature at 12°C.

FEED GAS SPECIFICATIONS							
Feed Gas Amount	3.9 m³/hr (138 ft³/hr)	4.55 m ³ /hr (161 ft ³ /hr)	5.2 m³/hr (184 ft³/hr)	5.85 m³/hr (207 ft³/hr)	6.5 m³/hr (230 ft³/hr)	7.15 m³/hr (253 ft³/hr)	
Max Gas Pressure at Inlet	3 bar(g) / 43,5 psi(g)						
Oxygen Purity	>92%						
Oxygen Dew Point		<-40°C / <-40°F					
Oxygen Connector			½ Internal 1	hreaded BSP			

COOLING SPECIFICATIONS							
Min. Cooling Water Flow	$0.72 \text{ m}^3/\text{hr} (25.43 \text{ ft}^3/\text{hr}) \qquad 0.84 \text{ m}^3/\text{hr} (29.66 \text{ ft}^3/\text{hr}) \qquad 0.96 \text{ m}^3/\text{hr} (33.9 \text{ ft}^3/\text{hr}) \qquad 1.08 \text{ m}^3/\text{hr} (38.14 \text{ ft}^3/\text{hr}) \qquad 1.2 \text{ m}^3/\text{hr} (42.38 \text{ ft}^3/\text{hr}) \qquad 1.32 \text{ m}^3/\text{hr} (46.62 \text{ ft}^3/\text{hr}) \qquad 1.32 \text{ m}^3/\text{hr} (46$						
Cooling Demand	4.2 kW	4.9 kW	5.6 kW	6.3 kW	7.0 kW	7.7 kW	
Cooling Water Temp. Range			2-30°C /	36 - 86°F			
Max Cooling Water Pressure			6 bar(g) /	87 psi(g)			
Cooling Water Connection		1/2" Internal Threaded BSP					
Cooling Agent Composition			30 % Ethylene Glyo	col and 70 % Water			
Water Hardness			< 10° dH /	′ < 9,5 gpg			
Water Quality			Drinking Water (98/83/8	EC), Closed Loop System			
Target Temp. Ozone Generator			12°C	/ 54°F			

PERFORMANCE / CONC.	ULTRAQUBE-12 SS	ULTRAQUBE-13 SS	ULTRAQUBE-14 SS	ULTRAQUBE-15 SS	ULTRAQUBE-16 SS	ULTRAQUBE-17 SS	ULTRAQUBE-18 SS
140 g/Nm³ 10% wt/wt	1056 g/hr (55.87 lbs/day)	1144 g/hr (60.53 lbs/day)	1232 g/hr (65.19 lbs/day)	1320 g/hr (69.84 lbs/day)	1408 g/hr (74.50 lbs/day)	1496 g/hr (79.15 lbs/day)	1584 g/hr (83.81 lbs/day)
200 g/Nm ³ 14% wt/wt	902 g/hr (47.73 lbs/day)	978 g/hr (51.75 lbs/day)	1054 g/hr (55.77 lbs/day)	1128 g/hr (59.68 lbs/day)	1204 g/hr (63.70 lbs/day)	1280 g/hr (67.72 lbs/day)	1354 g/hr (71.64 lbs/day)
250 g/Nm³ 17,5% wt/wt	646 g/hr (34.18 lbs/day)	700 g/hr (37.04 lbs/day)	754 g/hr (39.89 lbs/day)	808 g/hr (42.75 lbs/day)	862 g/hr (45.61 lbs/day)	916 g/hr (48.47 lbs/day)	970 g/hr (51.32 lbs/day)
300 g/Nm ³ 20% wt/wt	502 g/hr (26.56 lbs/day)	544 g/hr (28.78 lbs/day)	586 g/hr (31.01 lbs/day)	628 g/hr (33.23 lbs/day)	670 g/hr (35.45 lbs/day)	712 g/hr (37.67 lbs/day)	754 g/hr (39.89 lbs/day)

CABINET SPECIFICATIONS							
Weight	222 kg / 489 lbs	241 kg / 530 lbs	259 kg / 571 lbs	278 kg / 612 lbs	296 kg / 653 lbs	315 kg / 693 lbs	333 kg / 734 lbs
Length				400 mm / 15.7 in			
Width		1025 mm / 40.4 in					
Height	1710 mm / 67.3 in						
Ingress Protection	IP65 / NEMA 4X						
Temperature				5-40° C			
Humidity	< 95% Non-Condensing						
Noise Level	< 53dB						
Cabinet Material				Stainless Steel (SS) 316L			

ELECTRICAL SPECIFICATIONS								
Power (100%)	9.0 kW	9.75 kW	10.5 kW	11.25 kW	12.0 kW	12.75 kW	13.5 kW	
Energy Consumption	<8.5 kW per kg O³ / 3,63 kW/lbs*							
Power Supply	3x400V + N + PE, AC 50 / 60 Hz							
Power Factor	0.95							
Control Range	20-100%							
Circuit Breaker Type - Power Supply	Use C-Characteristic Fuses on the Incoming Power Supply							
SCADA Communication	MODBUS TCP							

 $^{^{*}}$ At an ozone gas concentration of 140 g/Nm³ $\,$ and cooling water temperature at 12°C.

FEED GAS SPECIFICATIONS							
Feed Gas Amount	7.8 m³/hr (276 ft³/hr)	8.45 m³/hr (299 ft³/hr)	9.1 m³/hr (322 ft³/hr)	9.75 m³/hr (345 ft³/hr)	10.4 m³/hr (368 ft³/hr)	11.05 m³/hr (391 ft³/hr)	11.7 m³/hr (414 ft³/hr)
Max Gas Pressure at Inlet				3 bar(g) / 43,5 psi(g)			
Oxygen Purity				>92%			
Oxygen Dew Point				<-40°C / <-40°F			
Oxygen Connector				1/4 Internal Threaded BSP			

COOLING SPECIFICATIONS							
Min. Cooling Water Flow	1.44 m³/hr (50.85 ft³/hr)	1.56 m³/hr (55.09 ft³/hr)	1.68 m³/hr (59.33 ft³/hr)	1.8 m³/hr (63.57 ft³/hr)	1.92 m³/hr (67.8 ft³/hr)	2.04 m³/hr (72.04 ft³/hr)	2.16 m³/hr (76.28 ft³/hr)
Cooling Demand	8.4 kW	9.1 kW	9.8 kW	10.5 kW	11.2 kW	11.9 kW	12.6 kW
Cooling Water Temp. Range				2-30°C / 36 - 86°F			
Max Cooling Water Pressure				6 bar(g) / 87 psi(g)			
Cooling Water Connection				½" Internal Threaded BSP			
Cooling Agent Composition			30) % Ethylene Glycol and 70 % Wa	ter		
Water Hardness	< 10° dH / < 9,5 gpg						
Water Quality	Drinking Water (98/83/EC), Closed Loop System						
Target Temp. Ozone Generator				12°C / 54°F			

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PERFORMANCE / CONC.	ULTRAQUBE-19 SS	ULTRAQUBE-20 SS	ULTRAQUBE-21 SS	ULTRAQUBE-22 SS	ULTRAQUBE-23 SS	ULTRAQUBE-24 SS
140 g/Nm³ 10% wt/wt	1672 g/hr (88.47 lbs/day)	1760 g/hr (93.12 lbs/day)	1848 g/hr (97.78 lbs/day)	1936 g/hr (102.44 lbs/day)	2024 g/hr (107.09 lbs/day)	2112 g/hr (111.75 lbs/day)
200 g/Nm³ 14% wt/wt	1430 g/hr (75.66 lbs/day)	1506 g/hr (79.68 lbs/day)	1580 g/hr (83.60 lbs/day)	1656 g/hr (87.62 lbs/day)	1732 g/hr (91.64 lbs/day)	1806 g/hr (95.56 lbs/day)
250 g/Nm³ 17,5% wt/wt	1024 g/hr (54.18 lbs/day)	1078 g/hr (57.04 lbs/day)	1132 g/hr (59.90 lbs/day)	1186 g/hr (62.75 lbs/day)	1240 g/hr (65.61 lbs/day)	1294 g/hr (68.47 lbs/day)
300 g/Nm³ 20% wt/wt	796 g/hr (42.12 lbs/day)	838 g/hr (44.34 lbs/day)	880 g/hr (46.56 lbs/day)	922 g/hr (48.78 lbs/day)	964 g/hr (51.01 lbs/day)	1006 g/hr (53.23 lbs/day)

CABINET SPECIFICATIONS							
Weight	352 kg / 775 lbs	370 kg / 816 lbs	389 kg / 856 lbs	407 kg / 897 lbs	426 kg / 938 lbs	444 kg / 979 lbs	
Length			800 mm	/ 31.5 in			
Width		1025 mm / 40.4 in					
Height	1710 mm / 67.3 in						
Ingress Protection			IP65 / N	EMA 4X			
Temperature		5-40° C					
Humidity	< 95% Non-Condensing						
Noise Level	< 53dB						
Cabinet Material	Stainless Steel (SS) 316L						

ELECTRICAL SPECIFICATIONS							
Power (100%)	14.25 kW	15.0 kW	15.75 kW	16.5 kW	17.25 kW	18.0 kW	
Energy Consumption	<8.5 kW per kg O ³ / 3,63 kW/lbs*						
Power Supply	3x400V + N + PE, AC 50 / 60 Hz						
Power Factor			0	.95			
Control Range		20-100%					
Circuit Breaker Type - Power Supply	Use C-Characteristic Fuses on the Incoming Power Supply						
SCADA Communication	MODBUS TCP						

 $^{^{\}star}$ At an ozone gas concentration of 140 g/Nm³ $\,$ and cooling water temperature at 12°C.

FEED GAS SPECIFICATIONS							
Feed Gas Amount	12.35 m³/hr (437 ft³/hr)	13.0 m³/hr (460 ft³/hr)	13.65 m³/hr (483 ft³/hr)	14.3 m³/hr (506 ft³/hr)	14.95 m³/hr (529 ft³/hr)	15.6 m³/hr (552 ft³/hr)	
Max Gas Pressure at Inlet		3 bar(g) / 43,5 psi(g)					
Oxygen Purity			>92	2%			
Oxygen Dew Point	<-40°C / <-40°F						
Oxygen Connector			½ Internal T	hreaded BSP			

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	2.28 m³/hr (80.52 ft³/hr)	2.4 m³/hr (84.76 ft³/hr)	2.52 m³/hr (88.99 ft³/hr)	2.64 m ³ /hr (93.23 ft ³ /hr)	2.76 m³/hr (97.47 ft³/hr)	2.88 m ³ /hr (101.71 ft ³ /hr)
Cooling Demand	13.3 kW	14.0 kW	14.7 kW	15.4 kW	16.1 kW	16.8 kW
Cooling Water Temp. Range			2-30°C /	36 - 86°F		
Max Cooling Water Pressure	6 bar(g) / 87 psi(g)					
Cooling Water Connection			1" Internal T	hreaded BSP		
Cooling Agent Composition			30 % Ethylene Glyd	col and 70 % Water		
Water Hardness	< 10° dH / < 9,5 gpg					
Water Quality	Drinking Water (98/83/EC), Closed Loop System					
Target Temp. Ozone Generator	12°C / 54°F					

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PERFORMANCE / CONC.	ULTRAQUBE-25 SS	ULTRAQUBE-26 SS	ULTRAQUBE-27 SS	ULTRAQUBE-28 SS	ULTRAQUBE-29 SS	ULTRAQUBE-30 SS
140 g/Nm³ 10% wt/wt	2200 g/hr (116.40 lbs/day)	2288 g/hr (121.06 lbs/day)	2376 g/hr (125.72 lbs/day)	2464 g/hr (130.37 lbs/day)	2552 g/hr (135.03 lbs/day)	2640 g/hr (139.69 lbs/day)
200 g/Nm ³ 14% wt/wt	1882 g/hr (99.58 lbs/day)	1958 g/hr (103.60 lbs/day)	2032 g/hr (107.52 lbs/day)	2108 g/hr (111.54 lbs/day)	2184 g/hr (115.56 lbs/day)	2258 g/hr (119.47 lbs/day)
250 g/Nm³ 17,5% wt/wt	1348 g/hr (71.32 lbs/day)	1402 g/hr (74.18 lbs/day)	1456 g/hr (77.04 lbs/day)	1510 g/hr (79.90 lbs/day)	1564 g/hr (82.75 lbs/day)	1618 g/hr (85.61 lbs/day)
300 g/Nm ³ 20% wt/wt	1048 g/hr (55.45 lbs/day)	1090 g/hr (57.67 lbs/day)	1132 g/hr (59.90 lbs/day)	1174 g/hr (62.12 lbs/day)	1216 g/hr (64.34 lbs/day)	1258 g/hr (66.56 lbs/day)

CABINET SPECIFICATIONS						
Weight	463 kg / 1020 lbs	481 kg / 1060 lbs	500 kg / 1101 lbs	518 kg / 1142 lbs	537 kg / 1183 lbs	555 kg / 1224 lbs
Length			800 mm	/ 31.5 in		
Width			1025 mm	/ 40.4 in		
Height	1710 mm / 67.3 in					
Ingress Protection			IP65 / N	EMA 4X		
Temperature			5-40)° C		
Humidity	< 95% Non-Condensing					
Noise Level	< 53dB					
Cabinet Material	Stainless Steel (SS) 316L					

ELECTRICAL SPECIFICATIONS	5						
Power (100%)	18.75 kW	19.5 kW	20.25 kW	21.0 kW	21.75 kW	22.5 kW	
Energy Consumption	<8.5 kW per kg O³ / 3,63 kW/lbs*						
Power Supply	3x400V + N + PE, AC 50 / 60 Hz						
Power Factor			C).95			
Control Range			20-	100%			
Circuit Breaker Type - Power Supply	Use C-Characteristic Fuses on the Incoming Power Supply						
SCADA Communication	MODBUS TCP						

 $^{^{\}star}$ At an ozone gas concentration of 140 g/Nm³ $\,$ and cooling water temperature at 12°C.

FEED GAS SPECIFICATIONS						
Feed Gas Amount	16.25 m³/hr (575 ft³/hr)	16.9 m³/hr (598 ft³/hr)	17.55 m³/hr (621 ft³/hr)	18.2 m³/hr (644 ft³/hr)	18.85 m³/hr (667 ft³/hr)	19.5 m³/hr (690 ft³/hr)
Max Gas Pressure at Inlet			3 bar(g) / 4	43,5 psi(g)		
Oxygen Purity			>92	2%		
Oxygen Dew Point	<-40°C / <-40°F					
Oxygen Connector		1/2 Internal Threaded BSP				

COOLING SPECIFICATIONS										
Min. Cooling Water Flow	3.0 m³/hr (105.94 ft³/hr)	3.12 m³/hr (110.18 ft³/hr)	3.24 m³/hr (114.42 ft³/hr)	3.36 m³/hr (118.66 ft³/hr)	3.48 m³/hr (122.9 ft³/hr)	3.6 m³/hr (127.13 ft³/hr)				
Cooling Demand	17.5 kW	18.2 kW	18.9 kW	19.6 kW	20.3 kW	21.0 kW				
Cooling Water Temp. Range			2-30°C /	36 - 86°F						
Max Cooling Water Pressure	6 bar(g) / 87 psi(g)									
Cooling Water Connection			1" Internal T	hreaded BSP						
Cooling Agent Composition			30 % Ethylene Glyd	col and 70 % Water						
Water Hardness	< 10° dH / < 9,5 gpg									
Water Quality	Drinking Water (98/83/EC), Closed Loop System									
Target Temp. Ozone Generator			12°C	/ 54°F	12°C / 54°F					

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PERFORMANCE / CONC.	ULTRAQUBE-31 SS	ULTRAQUBE-32 SS	ULTRAQUBE-33 SS	ULTRAQUBE-34 SS	ULTRAQUBE-35 SS	ULTRAQUBE-36 SS
140 g/Nm³ 10% wt/wt	2728 g/hr (144.34 lbs/day)	2816 g/hr (149.00 lbs/day)	2904 g/hr (153.65 lbs/day)	2992 g/hr (158.31 lbs/day)	3080 g/hr (162.97 lbs/day)	3168 g/hr (167.62 lbs/day)
200 g/Nm³ 14% wt/wt	2334 g/hr (123.49 lbs/day)	2410 g/hr (127.51 lbs/day)	2484 g/hr (131.43 lbs/day)	2560 g/hr (135.45 lbs/day)	2636 g/hr (139.47 lbs/day)	2710 g/hr (143.39 lbs/day)
250 g/Nm³ 17,5% wt/wt	1672 g/hr (88.47 lbs/day)	1726 g/hr (91.32 lbs/day)	1780 g/hr (94.18 lbs/day)	1834 g/hr (97.04 lbs/day)	1888 g/hr (99.90 lbs/day)	1942 g/hr (102.75 lbs/day)
300 g/Nm³ 20% wt/wt	1300 g/hr (68.79 lbs/day)	1342 g/hr (71.01 lbs/day)	1384 g/hr (73.23 lbs/day)	1426 g/hr (75.45 lbs/day)	1468 g/hr (77.67 lbs/day)	1510 g/hr (79.90 lbs/day)

CABINET SPECIFICATIONS						
Weight	574 kg / 1264 lbs	592 kg / 1305 lbs	611 kg / 1346 lbs	629 kg / 1387 lbs	648 kg / 1427 lbs	666 kg / 1468 lbs
Length			800 mm	/ 31.5 in		
Width			1025 mm	/ 40.4 in		
Height	1710 mm / 67.3 in					
Ingress Protection			IP65 / N	EMA 4X		
Temperature			5-40)° C		
Humidity	< 95% Non-Condensing					
Noise Level	< 53dB					
Cabinet Material	Stainless Steel (SS) 316L					

ELECTRICAL SPECIFICATIONS	S					
Power (100%)	23.25 kW	24.0 kW	24.75 kW	25.5 kW	26.25 kW	27.0 kW
Energy Consumption			<8.5 kW per kg	O³ / 3,63 kW/lbs*		
Power Supply	3x400V + N + PE, AC 50 / 60 Hz					
Power Factor			0	.95		
Control Range			20-1	100%		
Circuit Breaker Type - Power Supply	Use C-Characteristic Fuses on the Incoming Power Supply					
SCADA Communication	MODBUS TCP					

 $^{^{\}star}$ At an ozone gas concentration of 140 g/Nm³ $\,$ and cooling water temperature at 12°C.

FEED GAS SPECIFICATIONS						
Feed Gas Amount	20.15 m³/hr (713 ft³/hr)	20.8 m³/hr (736 ft³/hr)	21.45 m³/hr (759 ft³/hr)	22.1 m³/hr (782 ft³/hr)	22.75 m³/hr (805 ft³/hr)	23.4 m³/hr (828 ft³/hr)
Max Gas Pressure at Inlet			3 bar(g) / 4	43,5 psi(g)		
Oxygen Purity			>92	2%		
Oxygen Dew Point	<-40°C / <-40°F					
Oxygen Connector		1/2 Internal Threaded BSP				

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	3.72 m³/hr (131.37 ft³/hr)	3.84 m³/hr (135.61 ft³/hr)	3.96 m³/hr (139.85 ft³/hr)	4.08 m ³ /hr (144.08 ft ³ /hr)	4.2 m³/hr (148.32 ft³/hr)	4.32 m³/hr (152.56 ft³/hr)
Cooling Demand	21.7 kW	22.4 kW	23.1 kW	23.8 kW	24.5 kW	25.2 kW
Cooling Water Temp. Range			2-30°C /	36 - 86°F		
Max Cooling Water Pressure	6 bar(g) / 87 psi(g)					
Cooling Water Connection			1" Internal TI	hreaded BSP		
Cooling Agent Composition			30 % Ethylene Glyd	col and 70 % Water		
Water Hardness	< 10° dH / < 9,5 gpg					
Water Quality	Drinking Water (98/83/EC), Closed Loop System					
Target Temp. Ozone Generator	12°C / 54°F					

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PERFORMANCE / CONC.	ULTRAQUBE-37 SS	ULTRAQUBE-38 SS	ULTRAQUBE-39 SS	ULTRAQUBE-40 SS	ULTRAQUBE-41 SS	ULTRAQUBE-42 SS
140 g/Nm³ 10% wt/wt	3256 g/hr (172.28 lbs/day)	3344 g/hr (176.93 lbs/day)	3432 g/hr (181.59 lbs/day)	3520 g/hr (186.25 lbs/day)	3608 g/hr (190.90 lbs/day)	3696 g/hr (195.56 lbs/day)
200 g/Nm ³ 14% wt/wt	2786 g/hr (147.41 lbs/day)	2862 g/hr (151.43 lbs/day)	2936 g/hr (155.35 lbs/day)	3012 g/hr (159.37 lbs/day)	3088 g/hr (163.39 lbs/day)	3162 g/hr (167.30 lbs/day)
250 g/Nm³ 17,5% wt/wt	1996 g/hr (105.61 lbs/day)	2050 g/hr (108.47 lbs/day)	2104 g/hr (111.32 lbs/day)	2158 g/hr (114.18 lbs/day)	2212 g/hr (117.04 lbs/day)	2266 g/hr (119.90 lbs/day)
300 g/Nm³ 20% wt/wt	1552 g/hr (82.12 lbs/day)	1594 g/hr (84.34 lbs/day)	1636 g/hr (86.56 lbs/day)	1678 g/hr (88.79 lbs/day)	1720 g/hr (91.01 lbs/day)	1762 g/hr (93.23 lbs/day)

CABINET SPECIFICATIONS							
Weight	685 kg / 1509 lbs	703 kg / 1550 lbs	722 kg / 1591 lbs	740 kg / 1631 lbs	759 kg / 1672 lbs	777 kg / 1713 lbs	
Length			800 mm	/ 31.5 in			
Width			1025 mm	/ 40.4 in			
Height			2175 mm	/ 85.6 in			
Ingress Protection			IP65 / N	EMA 4X			
Temperature			5-40)° C			
Humidity		< 95% Non-Condensing					
Noise Level		< 53dB					
Cabinet Material			Stainless Ste	eel (SS) 316L			

ELECTRICAL SPECIFICATIONS	5							
Power (100%)	27.75 kW	28.5 kW	29.25 kW	30.0 kW	30.75 kW	31.5 kW		
Energy Consumption		<8.5 kW per kg O ³ / 3,63 kW/lbs*						
Power Supply	3x400V + N + PE, AC 50 / 60 Hz							
Power Factor			().95				
Control Range			20-	100%				
Circuit Breaker Type - Power Supply	Use C-Characteristic Fuses on the Incoming Power Supply							
SCADA Communication			MOD	BUS TCP				

 $^{^{\}star}$ At an ozone gas concentration of 140 g/Nm³ $\,$ and cooling water temperature at 12°C.

FEED GAS SPECIFICATIONS								
Feed Gas Amount	24.05 m ³ /hr (851 ft ³ /hr)	24.7 m ³ /hr (874 ft ³ /hr)	25.35 m³/hr (897 ft³/hr)	26.0 m³/hr (920 ft³/hr)	26.65 m ³ /hr (943 ft ³ /hr)	27.3 m ³ /hr (966 ft ³ /hr)		
Max Gas Pressure at Inlet			3 bar(g) /	43,5 psi(g)				
Oxygen Purity			>9.	2%				
Oxygen Dew Point		<-40°C / <-40°F						
Oxygen Connector			½ Internal T	hreaded BSP				

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	4.44 m³/hr (156.8 ft³/hr)	4.56 m³/hr (161.04 ft³/hr)	4.68 m³/hr (165.27 ft³/hr)	4.8 m³/hr (169.51 ft³/hr)	4.92 m³/hr (173.75 ft³/hr)	5.04 m³/hr (177.99 ft³/hr)
Cooling Demand	25.9 kW	26.6 kW	27.3 kW	28.0 kW	28.7 kW	29.4 kW
Cooling Water Temp. Range			2-30°C / 3	36 - 86°F		
Max Cooling Water Pressure			6 bar(g) /	87 psi(g)		
Cooling Water Connection			1" Internal Ti	hreaded BSP		
Cooling Agent Composition			30 % Ethylene Glyc	col and 70 % Water		
Water Hardness			< 10° dH /	< 9,5 gpg		
Water Quality			Drinking Water (98/83/E	EC), Closed Loop System		
Target Temp. Ozone Generator			12°C /	/ 54°F		

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PERFORMANCE / CONC.	ULTRAQUBE-43 SS	ULTRAQUBE-44 SS	ULTRAQUBE-45 SS	ULTRAQUBE-46 SS	ULTRAQUBE-47 SS	ULTRAQUBE-48 SS
140 g/Nm³ 10% wt/wt	3784 g/hr (200.22 lbs/day)	3872 g/hr (204.87 lbs/day)	3960 g/hr (209.53 lbs/day)	4048 g/hr (214.18 lbs/day)	4136 g/hr (218.84 lbs/day)	4224 g/hr (223.50 lbs/day)
200 g/Nm³ 14% wt/wt	3238 g/hr (171.32 lbs/day)	3314 g/hr (175.34 lbs/day)	3388 g/hr (179.26 lbs/day)	3464 g/hr (183.28 lbs/day)	3540 g/hr (187.30 lbs/day)	3614 g/hr (191.22 lbs/day)
250 g/Nm ³ 17,5% wt/wt	2320 g/hr (122.75 lbs/day)	2374 g/hr (125.61 lbs/day)	2428 g/hr (128.47 lbs/day)	2482 g/hr (131.33 lbs/day)	2536 g/hr (134.18 lbs/day)	2590 g/hr (137.04 lbs/day)
300 g/Nm ³ 20% wt/wt	1804 g/hr (95.45 lbs/day)	1846 g/hr (97.67 lbs/day)	1888 g/hr (99.90 lbs/day)	1930 g/hr (102.12 lbs/day)	1972 g/hr (104.34 lbs/day)	2014 g/hr (106.56 lbs/day)

CABINET SPECIFICATIONS								
Weight	796 kg / 1754 lbs	814 kg / 1795 lbs	833 kg / 1835 lbs	851 kg / 1876 lbs	870 kg / 1917 lbs	888 kg / 1958 lbs		
Length			800 mm	/ 31.5 in				
Width			1025 mm	/ 40.4 in				
Height		2175 mm / 85.6 in						
Ingress Protection			IP65 / N	EMA 4X				
Temperature			5-40)° C				
Humidity			< 95% Non-	Condensing				
Noise Level		< 53dB						
Cabinet Material			Stainless Ste	eel (SS) 316L				

ELECTRICAL SPECIFICATIONS	S							
Power (100%)	32.25 kW	33.0 kW	33.75 kW	34.5 kW	35.25 kW	36.0 kW		
Energy Consumption			<8.5 kW per kg C)³ / 3,63 kW/lbs*				
Power Supply		3x400V + N + PE, AC 50 / 60 Hz						
Power Factor			0.0	95				
Control Range			20-1	00%				
Circuit Breaker Type - Power Supply		Use C-Characteristic Fuses on the Incoming Power Supply						
SCADA Communication			MODB	US TCP				

^{*} At an ozone gas concentration of 140 g/Nm³ and cooling water temperature at 12°C.

FEED GAS SPECIFICATIONS								
Feed Gas Amount	27.95 m³/hr (989 ft³/hr)	28.6 m³/hr (1012 ft³/hr)	29.25 m ³ /hr (1034 ft ³ /hr)	29.9 m³/hr (1057 ft³/hr)	30.55 m³/hr (1080 ft³/hr)	31.2 m³/hr (1103 ft³/hr)		
Max Gas Pressure at Inlet			3 bar(g) / 4	43,5 psi(g)				
Oxygen Purity			>92	2%				
Oxygen Dew Point		<-40°C / <-40°F						
Oxygen Connector			½ Internal Ti	hreaded BSP				

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	5.16 m³/hr (182.22 ft³/hr)	5.28 m³/hr (186.46 ft³/hr)	5.4 m ³ /hr (190.7 ft ³ /hr)	5.52 m³/hr (194.94 ft³/hr)	5.64 m³/hr (199.17 ft³/hr)	5.76 m³/hr (203.41 ft³/hr)
Cooling Demand	30.1 kW	30.8 kW	31.5 kW	32.2 kW	32.9 kW	33.6 kW
Cooling Water Temp. Range			2-30°C /	36 - 86°F		
Max Cooling Water Pressure			6 bar(g) /	/ 87 psi(g)		
Cooling Water Connection			1" Internal T	hreaded BSP		
Cooling Agent Composition			30 % Ethylene Gly	col and 70 % Water		
Water Hardness			< 10° dH /	/ < 9,5 gpg		
Water Quality			Drinking Water (98/83/	EC), Closed Loop System		
Target Temp. Ozone Generator			12°C	/ 54°F		



COMPANY HISTORY

ULTRAAQUA IS AN INTERNATIONAL MANUFACTURER OF ADVANCED UV AND OZONE WATER DISINFECTION SYSTEMS SOLUTIONS 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 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 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.

ULTRAQUA