

ULTRAQUBE SS SERIES (1-5)

OZONE OXIDATION • EFFICIENT AND CHEMICAL-FREE WATER TREATMENT



ULTRAQUA
OZONE SYSTEMS

WE PROTECT YOUR MOST VALUABLE RESOURCE

ULTRAQUBE SS SERIES

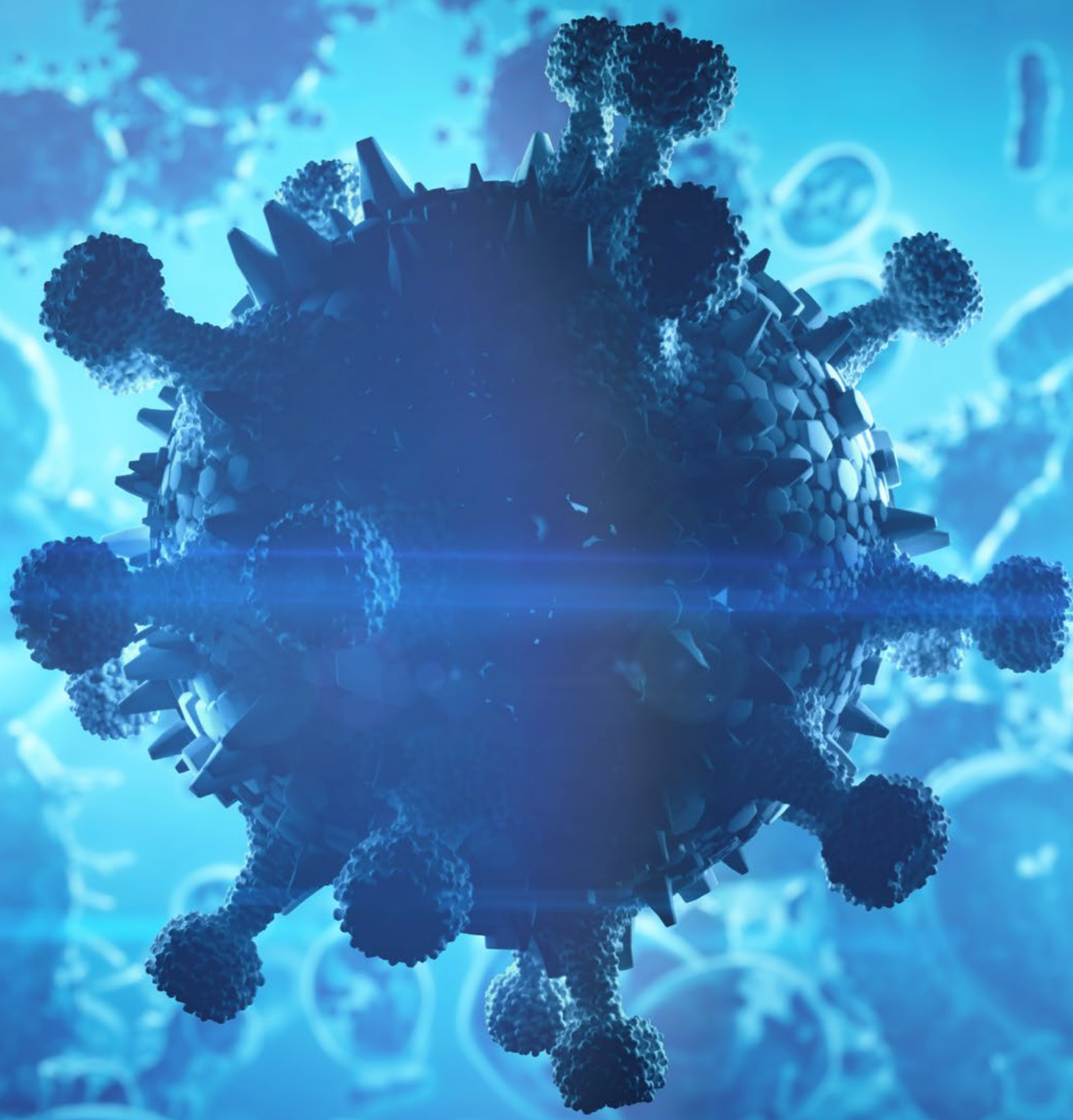
OPTIMIZED OZONE TECHNOLOGY

THE ULTRAQUBE FEATURES ENERGY-EFFICIENT HIGH-CONCENTRATION OZONE TECHNOLOGY, DESIGNED AS A SCALABLE CONCEPT THAT FITS CUSTOMIZATION OVER TIME TO SUIT THE EXACT REQUIREMENTS.

KEY HIGHLIGHTS

- Robust design tailored for industrial applications
- Scalable concept for trouble-free customization of ozone demand
- 9-20 wt% ozone concentration
- Complete ozone system with value added products
- Robust and compact unit for easy integration in complex environments
- Safe, sustainable, and chemical-free technology

MARKET LEADING ENERGY EFFICIENCY



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.

ULTRAAQUA

ROBUST INNOVATIVE DESIGN

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



SAMPLE PORT

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

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 possibilities below 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 diverse expertise to drive continuous innovation has been vital to the success of the company.

The ULTRAAQUA R&D department conducts, supports, and pioneers some of the latest developments within the water industry. These projects are often carried out in collaboration with specialists from municipalities, universities, top-tier consultancies, and international companies. The projects primarily focus on developing unique and advanced chemical-free disinfection solutions for some of the world's most complex water quality challenges.

The comprehensive in-house testing area provides optimal conditions for research, development, and innovation. This includes a 40-ft research container to support local testing, as well as the capability to conduct full-scale pilot trials. All of this, combined with cutting-edge engineering, makes us confident that ULTRAAQUA is the right partner for your organization.

This ultimately allows ULTRAAQUA to position itself among the industry leaders in Ozone & UV disinfection, providing customers with the best available solutions.

ULTRAAQUA





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.

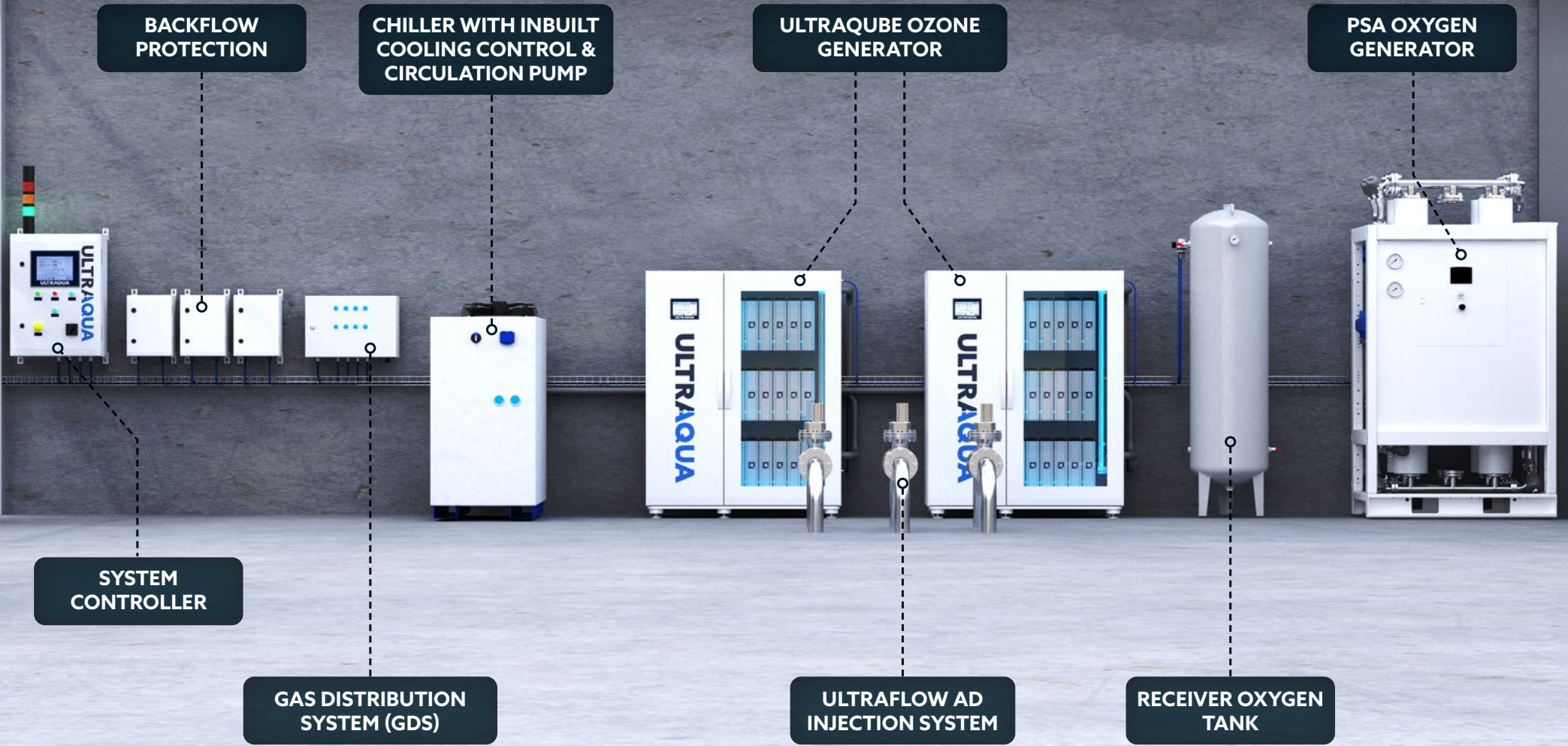
Choosing a skid solution can significantly reduce the general equipment costs dependent on the existing water treatment setup. Every skid solution comes as a customized solution that matches the exact customer requirements for ozone output capacity.

CUSTOM SKID SOLUTION EXAMPLE:

- ULTRAQUBE Ozone Generator
- PSA Oxygen Generator
- Chiller
- 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)

OZONE SYSTEM CONFIGURATION 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.

- 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

PERFORMANCE / CONC.	ULTRAQUBE-1 SS	ULTRAQUBE-2 SS	ULTRAQUBE-3 SS	ULTRAQUBE-4 SS	ULTRAQUBE-5 SS
140 g/Nm ³ 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/Nm ³ 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/Nm ³ 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)

Working Conditions: At 12°C cooling water, 98% oxygen purity, 100% power

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) 304L				

ELECTRICAL SPECIFICATIONS					
Power (100%)	0.75 kW	1.5 kW	2.25 kW	3.0 kW	3.75 kW
Energy Consumption	<8.5 kW per kg O ³ / 3,63 kW/lbs*				
Power Supply	3x 400V + 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	0.65 m ³ /hr (23 ft ³ /hr)	1.3 m ³ /hr (46 ft ³ /hr)	1.95 m ³ /hr (69 ft ³ /hr)	2.6 m ³ /hr (92 ft ³ /hr)	3.25 m ³ /hr (115 ft ³ /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	¾ Internal Threaded BSP				

COOLING SPECIFICATIONS					
Min. Cooling Water Flow	0.12 m ³ /hr (4,24 ft ³ /hr)	0.24 m ³ /hr (8,47 ft ³ /hr)	0.36 m ³ /hr (12,71 ft ³ /hr)	0.48 m ³ /hr (16,95 ft ³ /hr)	0.6 m ³ /hr (21,19 ft ³ /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	½" Internal Threaded BSP				
Cooling Agent Composition	30% Ethylene Glycol 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				

Specifications are subject to change without notice. Version: 25.0

PERFORMANCE / CONC.	ULTRAQUBE-6 SS	ULTRAQUBE-7 SS	ULTRAQUBE-8 SS	ULTRAQUBE-9 SS	ULTRAQUBE-10 SS	ULTRAQUBE-11 SS
140 g/Nm ³ 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/Nm ³ 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/Nm ³ 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)

Working Conditions: At 12°C cooling water, 98% oxygen purity, 100% power

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 Steel (SS) 304L					

ELECTRICAL SPECIFICATIONS						
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	3x 400V + 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	3.9 m ³ /hr (138 ft ³ /hr)	4.55 m ³ /hr (161 ft ³ /hr)	5.2 m ³ /hr (184 ft ³ /hr)	5.85 m ³ /hr (207 ft ³ /hr)	6.5 m ³ /hr (230 ft ³ /hr)	7.15 m ³ /hr (253 ft ³ /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	¾ Internal Threaded BSP					

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	0.72 m ³ /hr (25.43 ft ³ /hr)	0.84 m ³ /hr (29.66 ft ³ /hr)	0.96 m ³ /hr (33.9 ft ³ /hr)	1.08 m ³ /hr (38.14 ft ³ /hr)	1.2 m ³ /hr (42.38 ft ³ /hr)	1.32 m ³ /hr (46.62 ft ³ /hr)
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	½" Internal Threaded BSP					
Cooling Agent Composition	30% Ethylene Glycol 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-12 SS	ULTRAQUBE-13 SS	ULTRAQUBE-14 SS	ULTRAQUBE-15 SS	ULTRAQUBE-16 SS	ULTRAQUBE-17 SS	ULTRAQUBE-18 SS
140 g/Nm ³ 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/Nm ³ 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)

Working Conditions: At 12°C cooling water, 98% oxygen purity, 100% power

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) 304L			

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 O ³ / 3,63 kW/lbs*			
Power Supply				3x 400V + 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 m ³ /hr (276 ft ³ /hr)	8.45 m ³ /hr (299 ft ³ /hr)	9.1 m ³ /hr (322 ft ³ /hr)	9.75 m ³ /hr (345 ft ³ /hr)	10.4 m ³ /hr (368 ft ³ /hr)	11.05 m ³ /hr (391 ft ³ /hr)	11.7 m ³ /hr (414 ft ³ /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				¾ Internal Threaded BSP			

COOLING SPECIFICATIONS							
Min. Cooling Water Flow	1.44 m ³ /hr (50.85 ft ³ /hr)	1.56 m ³ /hr (55.09 ft ³ /hr)	1.68 m ³ /hr (59.33 ft ³ /hr)	1.8 m ³ /hr (63.57 ft ³ /hr)	1.92 m ³ /hr (67.8 ft ³ /hr)	2.04 m ³ /hr (72.04 ft ³ /hr)	2.16 m ³ /hr (76.28 ft ³ /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% 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			

PERFORMANCE / CONC.	ULTRAQUBE-19 SS	ULTRAQUBE-20 SS	ULTRAQUBE-21 SS	ULTRAQUBE-22 SS	ULTRAQUBE-23 SS	ULTRAQUBE-24 SS
140 g/Nm ³ 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/Nm ³ 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/Nm ³ 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/Nm ³ 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)

Working Conditions: At 12°C cooling water, 98% oxygen purity, 100% power

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 / NEMA 4X					
Temperature	5-40° C					
Humidity	< 95% Non-Condensing					
Noise Level	< 53dB					
Cabinet Material	Stainless Steel (SS) 304L					

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	3x 400V + 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	12.35 m ³ /hr (437 ft ³ /hr)	13.0 m ³ /hr (460 ft ³ /hr)	13.65 m ³ /hr (483 ft ³ /hr)	14.3 m ³ /hr (506 ft ³ /hr)	14.95 m ³ /hr (529 ft ³ /hr)	15.6 m ³ /hr (552 ft ³ /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 Threaded BSP					

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	2.28 m ³ /hr (80.52 ft ³ /hr)	2.4 m ³ /hr (84.76 ft ³ /hr)	2.52 m ³ /hr (88.99 ft ³ /hr)	2.64 m ³ /hr (93.23 ft ³ /hr)	2.76 m ³ /hr (97.47 ft ³ /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 Threaded BSP					
Cooling Agent Composition	30% Ethylene Glycol 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/Nm ³ 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/Nm ³ 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)

Working Conditions: At 12°C cooling water, 98% oxygen purity, 100% power

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 / NEMA 4X					
Temperature	5-40° C					
Humidity	< 95% Non-Condensing					
Noise Level	< 53dB					
Cabinet Material	Stainless Steel (SS) 304L					

ELECTRICAL SPECIFICATIONS						
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 O ³ / 3,63 kW/lbs*					
Power Supply	3x 400V + 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	16.25 m ³ /hr (575 ft ³ /hr)	16.9 m ³ /hr (598 ft ³ /hr)	17.55 m ³ /hr (621 ft ³ /hr)	18.2 m ³ /hr (644 ft ³ /hr)	18.85 m ³ /hr (667 ft ³ /hr)	19.5 m ³ /hr (690 ft ³ /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 Threaded BSP					

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	3.0 m ³ /hr (105.94 ft ³ /hr)	3.12 m ³ /hr (110.18 ft ³ /hr)	3.24 m ³ /hr (114.42 ft ³ /hr)	3.36 m ³ /hr (118.66 ft ³ /hr)	3.48 m ³ /hr (122.9 ft ³ /hr)	3.6 m ³ /hr (127.13 ft ³ /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 Threaded BSP					
Cooling Agent Composition	30% Ethylene Glycol 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					

Specifications are subject to change without notice. Version: 25.0

PERFORMANCE / CONC.	ULTRAQUBE-31 SS	ULTRAQUBE-32 SS	ULTRAQUBE-33 SS	ULTRAQUBE-34 SS	ULTRAQUBE-35 SS	ULTRAQUBE-36 SS
140 g/Nm ³ 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/Nm ³ 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/Nm ³ 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/Nm ³ 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)

Working Conditions: At 12°C cooling water, 98% oxygen purity, 100% power

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 / NEMA 4X					
Temperature	5-40° C					
Humidity	< 95% Non-Condensing					
Noise Level	< 53dB					
Cabinet Material	Stainless Steel (SS) 304L					

ELECTRICAL SPECIFICATIONS						
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 O ³ / 3,63 kW/lbs*					
Power Supply	3x 400V + 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	20.15 m ³ /hr (713 ft ³ /hr)	20.8 m ³ /hr (736 ft ³ /hr)	21.45 m ³ /hr (759 ft ³ /hr)	22.1 m ³ /hr (782 ft ³ /hr)	22.75 m ³ /hr (805 ft ³ /hr)	23.4 m ³ /hr (828 ft ³ /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 Threaded BSP					

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	3.72 m ³ /hr (131.37 ft ³ /hr)	3.84 m ³ /hr (135.61 ft ³ /hr)	3.96 m ³ /hr (139.85 ft ³ /hr)	4.08 m ³ /hr (144.08 ft ³ /hr)	4.2 m ³ /hr (148.32 ft ³ /hr)	4.32 m ³ /hr (152.56 ft ³ /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 Threaded BSP					
Cooling Agent Composition	30% Ethylene Glycol 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					

Specifications are subject to change without notice. Version: 25.0

PERFORMANCE / CONC.	ULTRAQUBE-37 SS	ULTRAQUBE-38 SS	ULTRAQUBE-39 SS	ULTRAQUBE-40 SS	ULTRAQUBE-41 SS	ULTRAQUBE-42 SS
140 g/Nm ³ 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/Nm ³ 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/Nm ³ 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)

Working Conditions: At 12°C cooling water, 98% oxygen purity, 100% power

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 / NEMA 4X					
Temperature	5-40° C					
Humidity	< 95% Non-Condensing					
Noise Level	< 53dB					
Cabinet Material	Stainless Steel (SS) 304L					

ELECTRICAL SPECIFICATIONS						
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	3x 400V + 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	24.05 m ³ /hr (851 ft ³ /hr)	24.7 m ³ /hr (874 ft ³ /hr)	25.35 m ³ /hr (897 ft ³ /hr)	26.0 m ³ /hr (920 ft ³ /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	>92%					
Oxygen Dew Point	<-40°C / <-40°F					
Oxygen Connector	½ Internal Threaded BSP					

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	4.44 m ³ /hr (156.8 ft ³ /hr)	4.56 m ³ /hr (161.04 ft ³ /hr)	4.68 m ³ /hr (165.27 ft ³ /hr)	4.8 m ³ /hr (169.51 ft ³ /hr)	4.92 m ³ /hr (173.75 ft ³ /hr)	5.04 m ³ /hr (177.99 ft ³ /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 / 36 - 86°F					
Max Cooling Water Pressure	6 bar(g) / 87 psi(g)					
Cooling Water Connection	1" Internal Threaded BSP					
Cooling Agent Composition	30% Ethylene Glycol 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					

Specifications are subject to change without notice. Version: 25.0

PERFORMANCE / CONC.	ULTRAQUBE-43 SS	ULTRAQUBE-44 SS	ULTRAQUBE-45 SS	ULTRAQUBE-46 SS	ULTRAQUBE-47 SS	ULTRAQUBE-48 SS
140 g/Nm ³ 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/Nm ³ 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)

Working Conditions: At 12°C cooling water, 98% oxygen purity, 100% power

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 / NEMA 4X					
Temperature	5-40° C					
Humidity	< 95% Non-Condensing					
Noise Level	< 53dB					
Cabinet Material	Stainless Steel (SS) 304L					

ELECTRICAL SPECIFICATIONS						
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 O ³ / 3,63 kW/lbs*					
Power Supply	3x 400V + 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	27.95 m ³ /hr (989 ft ³ /hr)	28.6 m ³ /hr (1012 ft ³ /hr)	29.25 m ³ /hr (1034 ft ³ /hr)	29.9 m ³ /hr (1057 ft ³ /hr)	30.55 m ³ /hr (1080 ft ³ /hr)	31.2 m ³ /hr (1103 ft ³ /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 Threaded BSP					

COOLING SPECIFICATIONS						
Min. Cooling Water Flow	5.16 m ³ /hr (182.22 ft ³ /hr)	5.28 m ³ /hr (186.46 ft ³ /hr)	5.4 m ³ /hr (190.7 ft ³ /hr)	5.52 m ³ /hr (194.94 ft ³ /hr)	5.64 m ³ /hr (199.17 ft ³ /hr)	5.76 m ³ /hr (203.41 ft ³ /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 Threaded BSP					
Cooling Agent Composition	30% Ethylene Glycol 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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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.

WANT TO LEARN MORE?



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