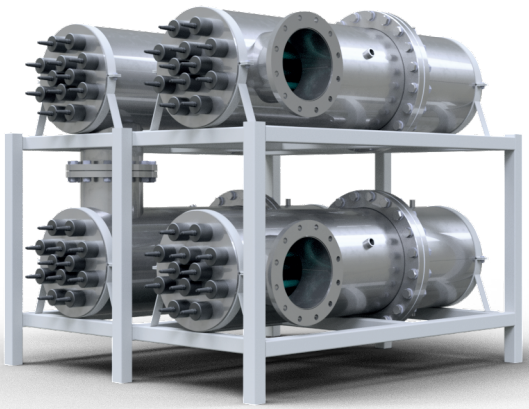
ADVANOX™

powered by VAN REMMEN UV Technology

Advanox™ Precision *series*

The Advanox Precision system is specially developed for micropollutant removal by the Advanced Oxidation Process (AOP) of combining UV-C light and hydrogen peroxide (H^2O^2). It is designed for effective treatment at high flows of up to 400 m^3/h for the Precision system. The reactor has a very precise UV-C dose and can be used at transmittances of 40-99% to remove up to 99% of micropollutants.



Advanox is a combination of oxidation, photolysis, and disinfection which makes it perfect for removal of micropollutants such as pharmaceuticals, antibiotics, hormones, pesticides, industrial pollutants and many more; but also for removal of antibiotic resistant bacteria, pathogens and UV-C sensitive compounds.

Advanox Precision

- Complete remote control possible with continuous monitoring
- No bromate (BrO_3^-), AOX or NDMA formation
- Low-pressure lamps with a long lifespan and high UV-C efficiency
- Easy to operate and maintain
- Reliable micropollutant removal of up to over 90%

Specifications

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Type	Advanox Precision
UV chamber on mounting frame	
Material reactor	316L / 1.4404 Stainless steel
Material mounting frame	304L / 1.4404 Stainless steel
In-/Outlet Connections	DN250
Pressure drop	< 0,2 bar
Max. Pressure	4 bar at 25°C
Dosing point connection	0,5" BSP
Mounting orientation	Horizontal
Number of sub-units	4
Diameter sub-unit - (mm)	460
Width - A (mm)	1570
Installation height - B (mm)	460
Installation dimension - C (mm)	780
Lenght - D (mm)	1690
Required working space - E (mm)	3200
Total height - F (mm)	1550
Weight (KG)	947
UV-C lamps	
Lamptype	600W Long Life
Preferred water temperature (°C)	5 °C - 30°C
Lamp lifespan (hours)	12000
Number of lamps	48
Control Unit	
Material	Coated steel
Dimensions (lxbxh)	400x600x1800 mm
Weight (kg)	200
Control features	Lamp status, lamp hours, system running time, volt free alarm contacts, hydrogen peroxide dosing and further process control depending on client requirements
Sensors (optional)	UV sensor (UVS), Temperature safety sensor (TSS)
Operating Voltage	280 VAC
Electrical connection	64 A
Protection rating	IP55
Preffered ambient temerature (°C)	5°C - 35°C
Total Power Consumtion (kW)	28

Specifications

Type	Advanox Precision
Power Consumption	
In kWh/m³ at dose of 5.000 J/m²	0,07-0,39
Approvals	
Complies with	Low Voltage Directive (LVD) 2014/35/ EU, Electromagnetic Compatibility Directive (EMC) 2014/30/EU, Machinery Directive 2014/42/EC

Capacities - Transmittance diagram

T10	5000 J/ m²	10000 J/ m²	15000 J/ m²	20000 J/ m²
40%	71	36	24	18
45%	78	39	26	19
50%	85	42	28	21
55%	91	46	30	23
60%	98	49	33	25
65%	124	62	41	31
70%	151	75	50	38
75%	177	89	59	44
80%	203	102	68	51
85%	230	115	77	57
90%	256	128	85	64
95%	400	261	174	130
99%	400	367	245	184