

# ADVANOX™

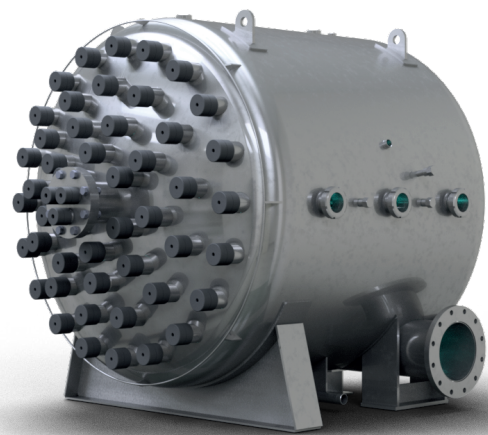
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UV Technology



## Advanox™ Flow series

The Advanox Flow reactor is specially developed for micropollutant removal by the Advanced Oxidation Process (AOP) of combining UV-C light and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>). It is designed for efficient treatment at high flows of up to 400 m<sup>3</sup>/h per reactor. The reactor has a very efficient UV-C dose and can be used at transmittances of 60-99% to remove 80-95% 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 Flow

- Complete remote control possible with continuous monitoring
- No bromate (BrO<sub>3</sub><sup>-</sup>), 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

Type	Advanox Flow
<b>UV chamber</b>	
Material reactor	316L / 1.4404 Stainless steel
In-/Outlet Connections	DN250
Pressure drop	< 0,2 bar
Max. Pressure	4 bar with 25°C
Mounting orientation	Horizontal
Diameter - A (mm)	1670
Height - B (mm)	1690
Installation dimension - C (mm)	2240
Lenght - D (mm)	2320
Required working space - E (mm)	3850
Weight (KG)	797
<b>UV-C lamps</b>	
Lamp type	600W Long Life
Preferred water temperature (°C)	5 °C - 30°C
Lamp lifespan (hours)	12000
Number of lamps	48
<b>Control Unit</b>	
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	380 VAC
Electrical connection	64 A
Protection rating	IP55
Preffered ambient temperature (°C)	5°C - 35°C
Total Power Consumption (kW)	28

# Specifications

<b>Type</b>	<b>Advanox Flow</b>
<b>Power Consumption</b>	
<i>In kWh/m<sup>3</sup> at dose of 5,000 J/m<sup>2</sup></i>	0.07-0.28
<b>Approvals</b>	
<i>Complies with</i>	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/ m <sup>2</sup>	10000 J/ m <sup>2</sup>	15000 J/ m <sup>2</sup>	20000 J/ m <sup>2</sup>
60%	101	51	34	25
65%	153	77	51	38
70%	205	102	68	51
75%	257	128	86	64
80%	309	154	103	77
85%	360	180	120	90
90%	400	206	137	103
95%	400	400	280	210
99%	400	400	394	296

