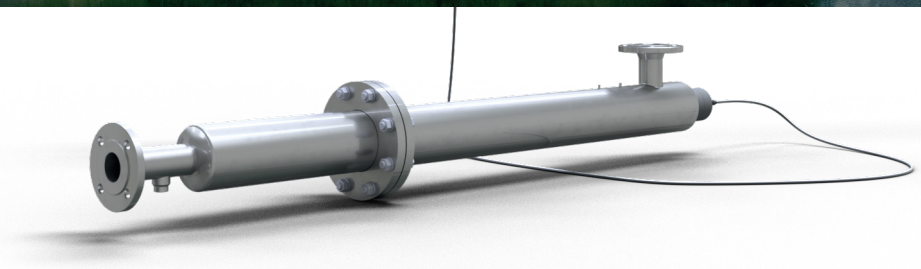
ADVANOX™
powered by VAN REMMEN UV Technology

Advanox™ Focus *series*



The Advanox Focus series is specially developed for micropollutant removal by the Advanced Oxidation Process (AOP) combining UV-C light and hydrogen peroxide (H^2O^2). It is designed for flexible and optimal water treatment where depending on the transmittance, target micropollutant, and removal goal; up to 12 m^3/h can be treated per reactor. The series consists of three reactors that each have their own focus, but when looking at all three together can be used at transmittances of 45-99% and remove up to 99% of micropollutants.

The Focus series is a complete solution which is more than just the reactor(s). To ensure successful and optimal application several functions are included, either as standard or as optional features for further optimization and control.

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 e.g. removal of antibiotic resistant bacteria, pathogens and UV-C sensitive compounds.

Advanox Focus 130

- 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

ADVANOX™ powered by VAN REMMEN UV Technology

Type	Advanox Focus 130
UV chamber	
Material	316L / 1.4404 Stainless steel
In-/Outlet Connections	DN50
Pressure drop	< 0,2 bar
Max. Pressure	10 bar at 25°C
Dosing point connection	0,5" BSP
Mounting orientation	Horizontal
Diameter per reactor - A (mm)	129
Height - B (mm)	166
Installation dimension - C (mm)	1578
Lenght - D (mm)	1779
Required working space - E (mm)	3516
Weight (KG)	32
UV-C lamp	
Lamptype	600W Long Life
Preferred water temperature (°C)	5 °C - 30°C
Lamp lifespan (hours)	12000
Number of lamps	1
Control Unit	
Material	Coated steel
Dimensions (lxbxh)	400x400x210 mm
Weight (kg)	8
Control features	Operation status, 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	230 VAC, 50/60 Hz
Electrical connection	16 A C-char./10A D-char.
Protection rating	IP54
Preffered ambient temerature (°C)	5°C - 35°C
Total Power Consumtion (Watt)	660

Specifications

Type	Advanox Focus 130
Power Consumption	
In kWh/m³ at dose of 5.000 J/m²	0,19-0,62
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
45%	1,1	0,5	0,4	0,3
50%	1,2	0,6	0,4	0,3
55%	1,4	0,7	0,5	0,3
60%	1,5	0,8	0,5	0,4
65%	1,8	0,9	0,6	0,4
70%	2,0	1,0	0,7	0,5
75%	2,2	1,1	0,7	0,6
80%	2,5	1,3	0,8	0,6
85%	2,8	1,4	0,9	0,7
90%	3,2	1,6	1,1	0,8
95%	3,6	1,8	1,2	0,9
99%	3,9	2,0	1,3	1,0