

Saniray Aurora  
A-Series

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# Saniray Aurora A-Series

The Aurora A-series UV system is an industrial grade, multi purpose UV reactor with a flexible range of options & additions to fit any air or gas stream. The chamber is constructed with a baffle wall to provide a long reaction time throughout the unit. One to six high efficiency UV-lamps ensure an evenly distributed irradiance throughout the reaction chamber. High efficiency low pressure lamps make our Aurora product line an environmentally friendly air treatment system with low running cost.

Available as an option, any Aurora A-series can be complemented with filtration media fitted before or after the UV chamber. The power of UV is combined with advanced catalytic or adsorption media as an intergrated feature of the Aurora A-series. Filling is done to ensure minimal pressure drop and even flow distribution.

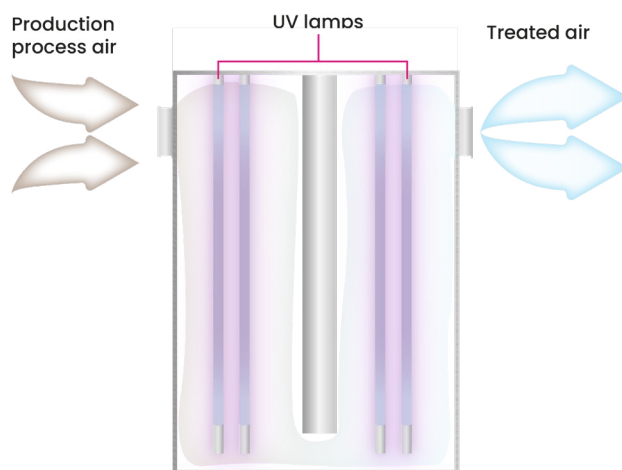


## Treatment of

- Odors from industry, waste, sewage, food production
- Air disinfection
- Impurities removal from gases
- HVAC indoor air
- VOCs - Volatile organic compounds
- H<sub>2</sub>S - Hydrogen sulfide

## Benefits

- Multipurpose – disinfection, odor & impurities removal
- Industrial grade, high-performance air treatment
- Active carbon addition available
- Effective UV treatment combined with catalytic or adsorption media available in our x-models
- Minimal pressure drop
- Long reaction time
- Corrosion resistant materials
- Compact & modular
- Easy maintenance



**Aurora A-series**  
Advanced UV treatment

*Operating principle of the Saniray Aurora A-series.*



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a MELLIFIQ brand



## Technical specifications Saniray Aurora A-series

UV System	A1/A1X	A2/A2X	A3/A3X	A4	A5	A6
Nominal Wall Dose (mj/cm <sup>2</sup> ) <sup>1</sup>	8-11	14-22	18-31	28-40	40-55	33-47
Nominal Average Dose (mj/cm <sup>2</sup> ) <sup>1</sup>	31-44	55-88	74-125	111-158	131-187	147-211
Power Consumption, W	820-970	1,440-1740	2,460-2,910	3,280-3,880	4,100-4,850	4,920-5,820
Weight, kg	170/245	170/245	170/245	180	180	180
Dimensions WxDxH, mm	1,160 x 760 x 2,070					
Certification	CE marked, ISO 15727					

UV Lamps & Configuration						
Wavelength, nm	185 and/or 254	185 and/or 254	185 and/or 254	185 and/or 254	185 and/or 254	185 and/or 254
UV Output Power, W	200 - 225	400 - 450	600 - 675	800 - 900	1000 - 1125	1200 - 1350
Lamp Number	1	2	3	4	5	6
Lamp Life, Rated Average, h	12,000-16,000					
Lamp Connections	EN 1.4404 custom-made Viton gaskets. Resistance to high temperatures, UV radiation and advanced oxidation conditions.					
Lamp Design	High performance, low pressure					
Material Lamp and Sleeves	Natural fused quartz					

Filtration Media Option X	
Positioning	Inlet or outlet
Additional Pressure Drop <sup>1</sup>	150-300 Pa
Additional Weight, kg	175
Media Alternatives	NGAC-5 (4x8) / NGAC-6 (4x8) / OCM-4E / OCM-4C / COL-A4 For sulphur compound removal: OCM-SulfCAT (4mm) / DAC SuperSulf S (4mm)

<sup>1</sup>3600m<sup>3</sup>/h at Wall UV dose (Fluence) (mj/cm<sup>2</sup>)  
<sup>2</sup>10,000m<sup>3</sup>/h Average UV dose (Fluence) (mj/cm<sup>2</sup>)  
<sup>3</sup>Depending on configuration

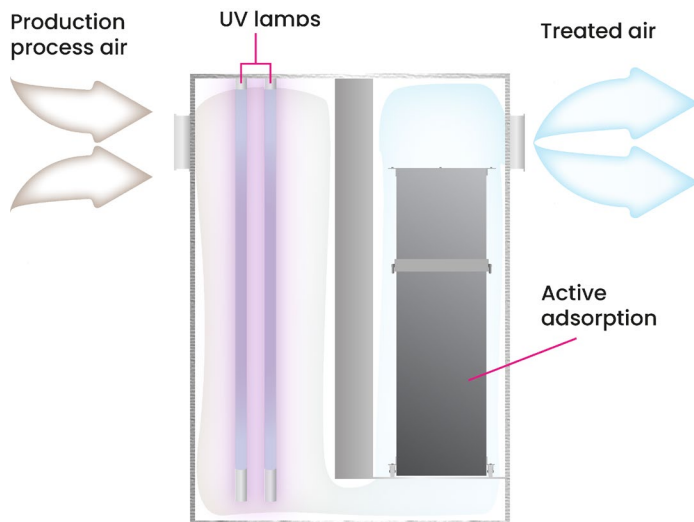
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Operating Conditions	A1/A1X	A2/A2X	A3/A3X	A4	A5	A6
Flow Through, m <sup>3</sup> /h <sup>1</sup>	100 - 5000					
Temperature, °C	4 - 150 (air/gas temp), 5 - 45 ambient					
Pressure Drop, Pa	5-30 (estimated)					
Relative Humidity, %	0 - 99 RH in chamber, 0 - 90 RH ambient					
Warmup Time, min	15					
Ballast Specifications						
Operating Mode	Pre-heat ignition					
Efficiency, %	>94					
Rated Power, W	600-800	1,200-1,600	1,800-2,400	2,400-3,200	3,000-4,000	3,600-4,800
Cabinet	IP54 enclosure, ventilated, corrosion resistant coating, wall mounted					
Max. Distance To Lamp, m	5					
Optional	Error relay output					

<sup>1</sup>Depending on configuration



**Aurora AX-series**  
Advanced UV treatment

Operating principle of the Saniray Aurora AX-series.

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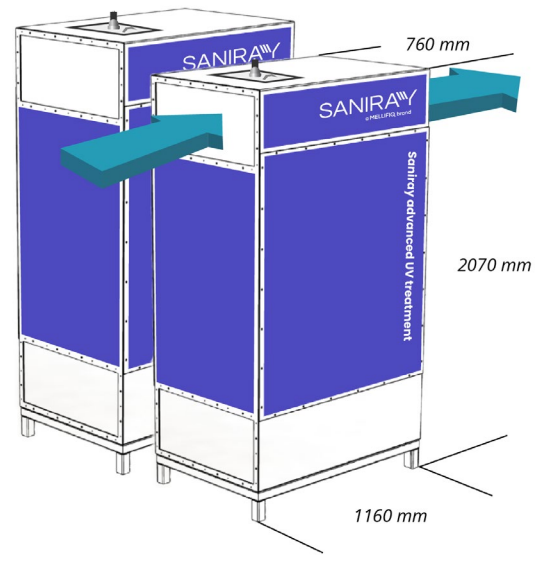
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UV Chamber	A1/A1X	A2/A2X	A3/A3X	A4	A5	A6
Connection Size, mm	754 x 380 or 1,154 x 380					
Connection Type	Flange, short side of the unit					
Material Construction	SS304L/EN 1.4307 (SS316L/EN 1.4404 optional)					
Baffle	Yes					
Placement	Four feet, to be placed on leveled surface					
Wiper System	Yes (optional)					
Temperature Probe	Yes					
Drain	One drain on each side of baffle					
Lamp Access	Mounted on retractable frame. Handles for safe and easy lift during maintenance.					
Ingress Protection	IP 54					
Chamber Options	Construction material upgrade / connection type / special coating					

Automation & Power Requirements	
HMI	7" touch screen (optional)
Design/Placement	Wall mounted
Control Type	HMI manual control / external 4-20 mA signal / SCADA interface
Communication	Modbus TPC (optional)
Mains Voltage, V	230V 1-phase / 400V 3-phase
Mains Frequency, Hz	50 - 60



Dimensional drawing of the Saniray Aurora A-series.



<sup>1</sup>Enlarged drawing of the typical layout for touch interface.

<sup>2</sup>Ballast cabinet.

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