

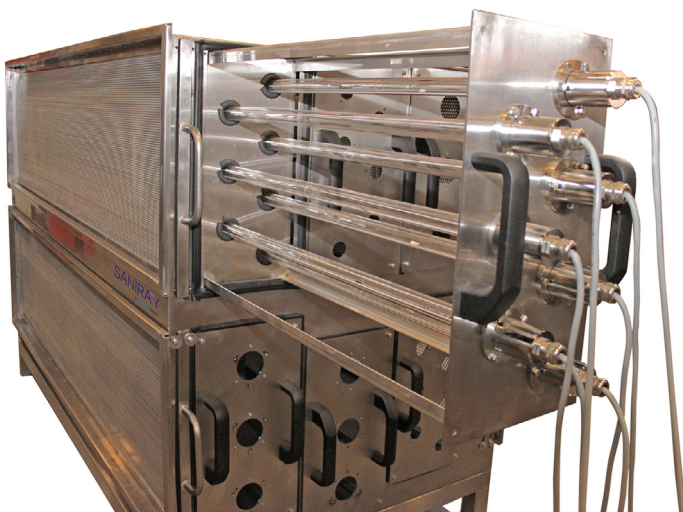
Saniray Aurora  
B-Series

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# Saniray Aurora B-Series

The Saniray Aurora B-series is an industrial grade, multi-purpose UV system with a wide range of performance & additions to fit any air system or gas stream. The chamber is designed through CFD modelling to ensure evenly distributed irradiation and minimal pressure loss with increasing flow. High efficiency, low pressure lamps make the Saniray Aurora an environmentally friendly air treatment system with low running cost.

Depending on configuration and application the Saniray Aurora B-series can effectively treat air flows of up to 20 000 m<sup>3</sup>/h. Depending on treatment requirements 1-6 lamp frames with each multiple UV lamps are fitted in the reactor. The lamps are mounted on retractable frames for easy access and maintenance.



Operating principle of the Saniray Aurora B-series in side view.



## Treatment of

- Odors from industry, waste, sewage, food production
- Impurities removal from gases
- HVAC indoor air
- VOCs - Volatile organic compounds
- Air disinfection

## Benefits

- Industrial grade, high-performance air treatment
- Handles large flows of up to approximately 20 000 m<sup>3</sup>/h
- Minimal pressure drop
- Long reaction time
- Corrosion resistant materials
- Compact & modular



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Aurora UV system	B1	B2	B3	B4	B5	B6
Nominal Wall Dose <sup>1</sup>	13-18	25-36	38-58	51-73	63-91	76-109
Nominal Average Dose <sup>2</sup>	51-73	101-145	152-218	203-291	254-363	304-436
Intensity (mW/cm <sup>2</sup> )	154-221	154-221	154-221	154-221	154-221	154-221
Weight, kg	170	190	210	300	320	340
Dimensions WxDxH, mm	873 x 630 x 1,640					
Certification & Standards	CE Marked, ISO/DIS 15727 UV-C devices — Measurement of output of UVC lamp					

UV Lamps & Monitoring						
Wavelength, nm	185 and/or 254					
Lamp Number	3	6	9	12	15	18
Lamp Life, Rated Average, h	LT200: 16,000, H210: 12,000, H225: 8000					
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					

Installed Configuration (W)						
H210 Lamps	1890	3780	5670	7560	9450	11340
H225 Lamps	2400	4800	7200	9600	12000	14400
LT200 Lamps	2400	4800	7200	9600	12000	14400

<sup>1</sup>10,000m<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>)

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Operating Conditions	B1	B2	B3	B4	B5	B6
Flow Through, m <sup>3</sup> /h	8,000 - 20,000					
Temperature, °C	4 - 200 in chamber, 5 - 45 ambient					
Pressure Drop, Pa	5 - 50 (estimated)					
Relative Humidity, %	0 - 99 RH in chamber, 0 - 90 RH ambient					
Warmup Time, min	15					
Service Space, m	2 minimum clearance on one short side					

Ballast Specifications	
Operating Mode	Pre-heat ignition
Efficiency, %	>94
Rated Power, W	LT200: 600, H210: 700, H225: 800 times number of lamps
Cabinet	IP54 enclosure, ventilated, corrosion resistant coating, wall mounted
Max. Distance To Lamp, m	5

UV Chamber	B1	B2	B3	B4	B5	B6
Connection Size, mm	1600 x 900 inlet & outlet					
Material Construction	EN 1.4301 stainless steel					
Placement	Four feet, to be placed on leveled surface					
Wiper System	Wiper system optional					
Temperature Probe	Temperature optional					
Standard UV Monitoring, mA	AT-463 (4-20) - IP66					
Lamp Access	Mounted on retractable frames.					
Drain	Yes					

Automation & Power Requirements (optional)	
HMI	Optional automation system with 7" HMI
Control Unit	Wall mounted
Communication	Modbus TPC (option)
Mains Voltage, VAC	185 - 253
Mains Frequency, Hz	50 - 60



The Aurora UV system lines are design with superior maintenance flexibility and parts replacement.

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