

# UVION AIR ASEPTICIZER

## AIR PURIFIER & PARTICULE REDUCTION DECONTAMINATION DEVICE



### EFFECTIVE FILTRATION DEVICE FOR

- INTENSIVE CARE UNITS
- ISOLATED ROOMS
- OPERATING ROOMS
- CLEAN ROOMS

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**TEKNOMAR**<sup>®</sup>  
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## COMPACT SYSTEM UVION AIR ASEPTICIZER

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**Uvion Air ASEPTICIZER** is a high level microbiological protection and contamination reduction device. It controls pressure (P/N), humidity, temperature and particule level of the environment stand alone.

**Uvion Air ASEPTICIZER** is used for decontaminating and sterilizing the air environment of hospital units and depots. With the usage of the system in operating rooms, intensive care units, reanimation and laboratory units, infections took root from contaminations are prevented and lenght stay of patient are shortened.

**Operating Principle:** Positive pressurized air being taken from the environment and from outside is past through pre-filters. The air, which is conditioned according to required value, after being sterilized with UV-C, negative ion generator and pathogen ionizator (uvion module), is decontaminated from particles using high efficiency HEPA/ULPA filters and balanced in respect of humidity, and given back to the environment as sterilized.

**Uvion Air ASEPTICIZER;** provides %99,5 Particular and %99,5 Biological decontamination after 1 hour of operation.



## OPERATION PROPERTIES

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**Positive Pressure Mode:** Air being taken from the environment and from outside in different modes (P1,P2,P3), is cleaned with Uvion Air ASEPTICIZER and given back to the environment with positive pressure values (10-30Pa), as sterilized and without containing particles: Operating rooms, reanimation units, intensive care units, depots, all similar environments requiring hygienical conditions.

**Negative pressure mode (N):** While polluted air completely being taken from the environment is processed with Uvion Air ASEPTICIZER and fresh air is supplied to the environment, processed air is exhausted to outside atmosphere and the environment is kept under negative pressure conditions. It empties contaminated air quickly from the units that have contagious diseases and contamination risks, and prevents possible spread of such diseases. Negative pressure application areas: Operating rooms, intensive care units, laboratories where worked on contagious diseases (tuberculosis,sars, rabies microbe etc..)

**Automatic Mode (Auto):** Sterilizes the environment in positive pressure mode. That mode is best fit for all environments where sterilized area needed (en14644).

**It has an air speed compensation system which is adjusted automatically depending on the obstruction of the filter.**

Most important distinctive feature of Uvion Air ASEPTICIZER is to contain both negative and positive operation functions and shifting instantly from positive to negative or negative to positive with one-touch button.

Using touchscreen control panel, function type (negative /positive), air speed, temperature and humidity values can be set.

## TECHNICAL SPECIFICATIONS

- \* **High-efficiency Heating – Cooling:** ( min. 8kW ) Temperature supply between 16 °C - 30°C. (accuracy  $\pm 0.1$  °C)
- \* **Humidity control:** Relative humidity control between %30 - % 90 Rh with ultrasonic nebulizer system (accuracy %1 Rh)
- \* **HEPA filters:** For particles bigger than H14 0,3 $\mu$  %99,9998 interception, (EN 1822), a permeability capacity higher than 2800 m<sup>3</sup>/h.
- \* **PRE-filters:** G4, EU4 and carbon filters provides %85 interception for particles bigger than 0.3 - 0.5 $\mu$
- \* **UVION module:** The device consists of a complete air sterilization unit and negative ion generator, which also can operate stand-alone, and with this integration, forms an Atmospheric Plasma (patogen ionisator). Negative ion generator contains Titanium dioxide (TiO<sub>2</sub>), Silver iodide (AgI), borosilicate, cylindrical torose glass tube coated with copper sulphate (CuS) and HV unit (5KV).



## ELECTRONIC SPECIFICATIONS

- \* PLC, I/O & Microprocessor Controlled
- \* Colored, touch screen graphic displayed control panel (English and Turkish languages support on touch screen)
- \* **Control sensors accuracy:** Humidity ( $\pm$  %1), temperature (%0.1), air speed (%1)
- \* **Differential pressure sensors:** Device compensates fans automatically according to HEPA filter dirtiness ratio (congestion), adjusts its air flow speed by itself, and controls environment pressure (positive 10- 30 Pa ).

## PHYSICAL PROPERTIES

Plenum box: HEPA Filter permeable plenum module

Noise: Noise magnitude of the system is lesser than 60Db (DIN 12950).

Weight: max:150Kg.( excluding conditioning module).

Chassis: Produced with corrosion resistant steel and coated with ESC epoxy paint.

Air Channel: Stainless stell or anti-oxidant aluminium type (depending on assembly area)

Power: Inner unit 2600W, Outer unit:1500 W

Energy: 220V $\pm$  %10 , 50-60Hz

TEKNOMAR BRAND UVION AIR ASEPTICIZER HVAC AIR PURIFIER AND DECONTAMINATION DEVICES					
MODELS	DIMENSIONS ( mm )			(m <sup>3</sup> /h)/BTU*	ELECTRICITY CONSUMPTION / HOUR*
	W	D	H		
CW - 650	760	560	2010	1500/10000	2.2 KW
CW - 1000	1000	560	2010	2000/24000	3.5 KW
CW - 1350	1350	560	2010	3000/24000	3.5 KW

\* Different models are available. Please contact to representative for different (m<sup>3</sup>/h)/btu selections. The given information is average assumption.

## TEKNOMAR® PRODUCT GROUP

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