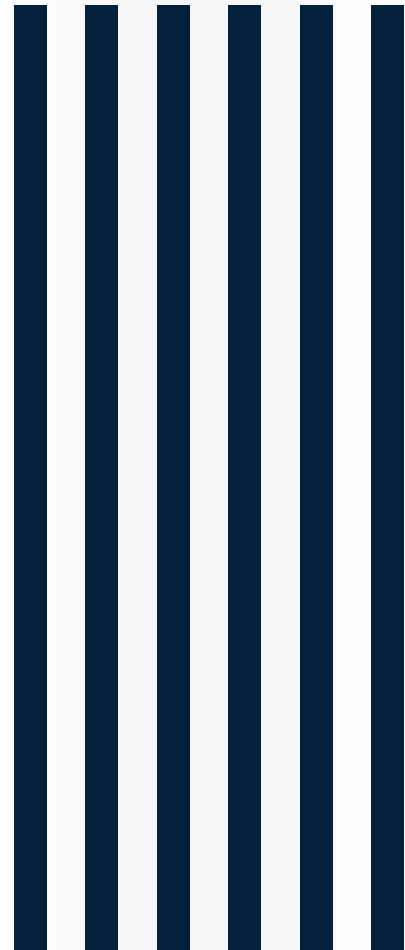


# TEKNOMAR®

## SAHARAN ASEPTIZER

XRETON-P CW 5000/10000



Saharan Type Mobile  
Air Conditioning and Air Sterilization Device

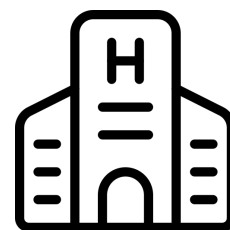




# SAHARAN ASEPTIZER

It's a microbiological protection and contamination reduction, high-level particle cleaning, air conditioning device in airborne bacteria-virus sterilization.

Provides positive-negative air pressure and air-conditioning of the environment.



## FIELD OF USAGE

- Field Hospitals
- Tent Type Field Hospitals
- Mobile-Trailer Type Field Hospitals
- Container Type Field Hospitals
- Hospitals for Disaster Area
- Shed Type Hospitals etc.

Specially produced for field type and mobile hospitals. It can also be used as a stand-alone air conditioning device. Minimizes the risk of possible epidemic and contamination in the environment where it is located. Provides a **Maximum Level of Air Sterilization.**

Saharan Aseptizer is used safely in all kinds of mobile and/or fixed field type hospitals and in all units of these hospitals where high hygiene and air-conditioning are needed, such as;

Isolation Room

Burn Treatments Room

Triage Unit

Laboratory Unit

Emergency Unit

Operating Room Unit

Radiology Unit

Service Unit

Blood Bank Unit

Intensive Care Unit

Mobile Dialysis Unit

Decontamination Room-Area etc.



- Controls the heat, humidity, pressure and particle in the environment where it is used.
- Has 5 different modes; 3 positive, 1 negative and 1 automatic.
- It is capable of providing POSITIVE and NEGATIVE pressure and has a decontamination system.
- Adjusts the air speed flow according to the filter efficiency with the speed compensation system.
- The man filter is HEPA H14.  
(99,999% retention for particles larger than 0.3 - 0.5 micron)
- Cleans the air taken and expelled from the external environment by using pre and waste filter application. ( Eu4, Eu7, G4 Carbon)
- Ensures filter safety with its leak-proof HEPA Plenum Box in accordance with DOP. The system has UVC 254 nm germicidal lamps.
- With the use of Saharan aseptizers, the risk of possible contamination and epidemics is minimized.



# SPECIFICATIONS

**PATENTED  
TECHNOLOGY**

Registration No  
2009 07999

- With UVION Module technology, it is provided to disinfect the filtered air with negative ion and atmospheric plasma effect.
- Values can be set via touch, color, graphic display and area variables can be observed.
- Has full automatic automation control and the sensor group is sensitive to sensitive changes.
- At maximum power, the measured volume is 55 Db.
- Installation time is short, easy to use and most importantly, it can feed 4 separate units at the same time.
- With its mobile design, the device works in all out weather conditions without the need for a special external area.
- The chassis of the Saharan Aseptizer device is especially made of steel and does not oxidize due to negative ions.



# SAHARAN ASEPTIZER

Comprises a complete sterilization and negative ion generator, which can operate as a stand-alone system. System creates atmospheric plasma (pathogen ionizer). The negative ion generator consists of Titanium dioxide (TiO<sub>2</sub>), Silver iodide (AgI), Copper Sulphate (CuS) coated borosilicate, cylindrical glass tube and HV unit. This mechanism, thanks to its catalytic inverter ethylene-based gas and the particles in the system-OH (hydroxyl attachments) breaks down to anaesthesia and other gases to decomposition, microorganisms DNA structure in violation of the deactivation, negative (-) ions means of the suspended particles and to the right in the photocatalytic reaction by forming the airborne pathogens and gases ineffective. Destroys all kinds of microorganisms, bacteria, viruses, pathogens.

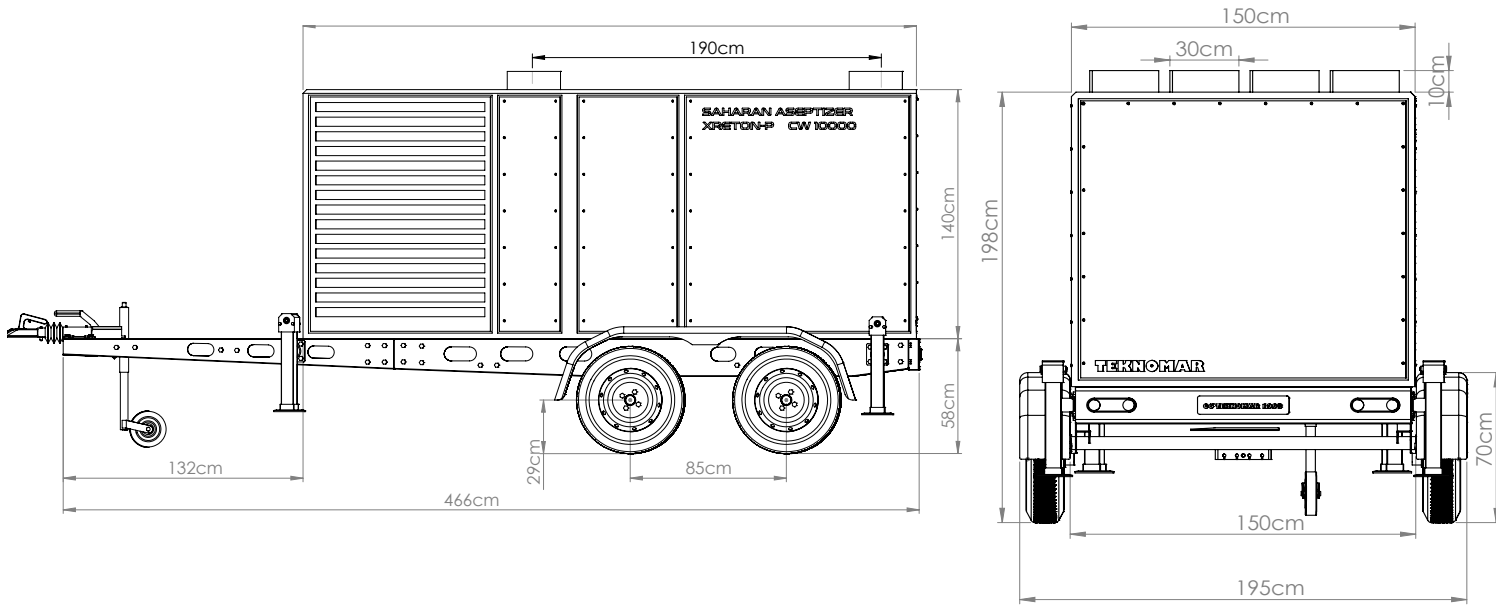
## UVION MODULE TECHNOLOGY

Fresh air is taken from the outside to the Saharan Aseptizer device, thus it is possible to obtain adjustable air in the range of 10% - 100%. If this feature is used, 20 Pa positive pressure is provided in the indoor environment where the device is used.

## CLEAN AIR INPUT



# TECHNICAL SPECIFICATIONS & DATASHEET



MODEL	CW5000	CW 10000
TYPE	Saharan Type Compact Mobile High-Level Industrial Hygienic Particle Reduction and Air Conditioning Device	
CLASS	MODULE A – Class I	

TECHNICAL SPECIFICATIONS		
EXTERIOR DIMENSIONS (W-D-H) (cm)	334 x 150 x 140	
MOBILIZED COMPACT DIMENSIONS (W-D-H) (cm)	466 x 195 x 208	
DEVICE WEIGHT (kg)	1300	1520
OPERATING MODE	NEGATIVE / POSITIVE	
HEATING AND COOLING CAPACITY (Btu)	62000 / 56000	124000 / 112000
EXTERNAL HEATING CAPACITY (kW)	3,3	3,3
AIR CONDITIONING POWER CONSUMPTION (W) Cooling / Heating	5730/6590	11460/13180
FILTRATION POWER CONSUMPTION(W)	1100	2200
BLOWING INLET SIZE Ø mm / Piece	295 / 4	295 / 4
SUCTION INLET SIZE Ø mm / Piece	295 / 4	295 / 4
FRESH AIR INTRODUCTION CAPACITY (m <sup>3</sup> /h)	0 - 5000	0 - 10000
INTERNAL AIR CAPACITY	0 – 5000	0 - 10000
TOTAL AIR CHANGE CAPACITY(m <sup>3</sup> /h)	h 3 - 4 m X 140-150 m <sup>2</sup> area 15 Cycle	15 Cycle h 3 - 4 m X 280-300 m <sup>2</sup> area
EFFICACY AREA AT CLASS 10.000	h 3 - 4 m X 140-150 m <sup>2</sup> area	h 3 - 4 m X 280-300 m <sup>2</sup> area
EFFICACY AREA AT CLASS 100.000	h 3 - 4 m X 180-190 m <sup>2</sup> area	h 3 - 4 m X 330-350 m <sup>2</sup> area

<b>PROGRAMS</b>	3 Positive, 1 Negative, 1 Auto Total 5 Programs
<b>PARTICULER DECONTAMINATION</b>	95% - 96% particulate decontamination for particles as large as 0.3 - 0.5 $\mu\text{m}$ within the first 1 hour
<b>BIO DECONTAMINATION</b>	96% $\leq$ bio-decontamination within the first 1 hour
<b>BIO DECONTAMINATION EFFICACY</b>	Unfilterable Resistant Long Ethylene Agents, All Kinds of Microorganisms, Viruses, Influenza, RSV Pathogens, Mold, Fungus, Covid, etc.
<b>HEPA RETENTION RATE</b>	Filtration Efficacy at 0.3 – 0.5 Micrometer Particle Size
<b>HEPA PERFORMANCE</b>	99,999%
<b>H14 HEPA MAIN FILTER SIZE (mm)</b>	610 x 1220 x 220 / 250 Pa
<b>F7 RIGIT FILTER SIZE (mm)</b>	490 x 592 x 149 / 170 Pa
<b>CARBON FIBER PRE FILTER SIZE (mm)</b>	Carbon / Fiber / 50 Pa
<b>AMBIENT AIR - CONDITIONING</b>	16-30 $^{\circ}\text{C}$
<b>DEVICE CHASSIS</b>	Electrostatic Powder Coated Steel
<b>SOUND VOLUME (1 m)</b>	55 dB
<b>AIR BLOWING METHOD</b>	With Flexible Pipe
<b>AIR SUCTION METHOD</b>	With Flexible Pipe
<b>ELECTRICAL INFORMATION</b>	380-400 V AC 50-60 Hz
<b>PROTECTION CLASS</b>	IP20 / EN 60601-1-2:2016
<b>SCREEN</b>	4.3" LCD Touch Screen
<b>CONTROL SYSTEM</b>	The Unit Controls Continuously The Environment Temperature, Pressure, Air Humidity, Filtration Clogging and Air Speed With 1% Precision.
<b>SOFTWARE</b>	PLC / HMI
<b>MENU LANGUAGE</b>	TR / ENG
<b>ALARM WARNING</b>	Error Conditions, With Alarm Codes Audible and Visual Warning
<b>PASSWORD PROTECTION</b>	User and Technical Service Password
<b>AIR SPEED SENSOR</b>	1% m/s Sensitivity, 4-20 mA
<b>MARGIN PRESSURE SENSOR</b>	40-450 Pa
<b>HEAT &amp; HUMIDITY SENSOR</b>	1% $^{\circ}\text{C}$ , 1% Rh Sensitivity, 4-20 mA Rod Type
<b>AIR CONDITIONING INTERNAL UNIT</b>	High-Performance A1 Class Inverter Heating Cooling Unit
<b>ENERGY LABEL COOLING/ HEATING</b>	A++ / A+++ 60% $\leq$ Energy-saving
<b>AIR CONDITIONING EXTERNAL UNIT</b>	Air Conditioning External Unit Operating Temperature -10 +44 $^{\circ}\text{C}$
<b>MOISTENING</b>	External Ultrasonic Nebulizer (Optional)
<b>FRESH AIR SUCTION FILTER</b>	EU7 FILTER
<b>AMBIENT AIR SUCTION FILTER</b>	G4 CARBON FILTER
<b>UVION MODULE</b>	Atmospheric Plasma / Negative Ion Generator
<b>ION GENERATOR</b>	TiO <sub>2</sub> , AgI, CuS coated cylindrical borosilicate glass tube ion generator
<b>ATMOSPHERIC PLASMA</b>	HV (5000 V plasma) supply
<b>UV LAMP</b>	8 units 15W UVC 254 nm germicidal lamp
<b>SPEED COMPENSATION SYSTEM</b>	Automatic Air Speed Flow Adjusted According to Filter Clogging
<b>SEALING</b>	Provides filter safety with a leak-proof HEPA Plenum Box suitable with DOP test.
<b>PLENIUM BOX FILTER RESISTANCE</b>	425 Pa



DOCUMENTS	
ISO 9001	Yes
ISO 13485	Yes
EC CERTIFICATE	Yes
DOMESTIC GOODS CERTIFICATE	Yes
CERTIFICATE of FREE SALE (CFS)	Yes
USABILITY TEST APPROVAL	Yes
TSE (TURKISH STANDARDS INSTITUTION) SERVICE CERTIFICATE	TS 12850 and TS 12426 Service Adequacy Certificate

OTHER AND OPTIONAL SPECIFICATIONS	
INSTALLATION and CABLE	All installation and cables used in the device are Halogen Free. (Non- inflammable).
CAPACITY	Air, Heating Capacity can be increased by 40%.
HEATING GROUP	Heater and Dehumidifier Thermostat Stepped Resistance Group can be increased up to 10 KiloWatts.
FANS (Internal and External )	Static/Dynamic, Stainless, Frequency Controlled and Mode Calibrated Radial, EC, Plug, etc. FANS (650 Pa) can be connected coupled.
SEALING	Leak-proof gasket and lock on the device covers.
ISOLATION	Acoustic and heat insulation 20-25 mm fireproof polyurethane material (plate and pyramid). (20-45 kg / m <sup>3</sup> )
COMMUNICATION	RS 232, I / O
OPTIONAL COMMUNICATION	Ethernet, Wi-Fi, Rf-ID
ELECTRIC	According to the countries, 220/240 V 50-60 Hz, 110 / 120 V 50-60 Hz, Three phase 380 / 400 / 440 V 50-60 Hz (against +-10% fluctuations)
SENSORS	Air flow speed, pressure sensor, temperature control, humidity sensor, thermostat, frequency control, phase control, static occupancy, defrost sensors.

MAINTENANCE PERIOD AND KIT			
	MAINTENANCE PERIOD	CW 5000	CW 10000
H14 – HEPA PRE - FILTER	1 time in 6 months	1 Piece	2 Piece
F7 RIGIT FILTER	2 times in 6 months	2 Piece	4 Piece
CARBON FIBER PRE FILTER	2 times in 6 months	1 Set	2 Set
UV LAMP	1 time in 6 months	8 Units	8 Units
UVION PATHOGEN IONIZER UNIT	2 times in 1 year	2 Set	2 Set
SOFTWARE VALIDATION	1 time in 1 year	Once	Once


This maintenance period and maintenance kit are provided for normal operating conditions. It may change according to adverse working conditions.


Our Aseptizer Device has been tested and APPROVED with the number 80962070 by the T.R. Ministry of Health, Public Health Institution of Turkey Microbiology Reference Laboratories Presidency.


All rights of specification and design change on the equipments produced due to the technological innovations and changes are reserved.

*We Produce*  
for your health



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