Owner's Manual

Read and Follow All Safety Instructions
Save These Instructions

QUANTUM MEDICAL GROUP

PureAIR

High performance professional Air Sanitizers
UV-C technology

QUANTUM MEDICAL GROUP
4000 Plovdiv, Bulgaria, Stefan i Obreyko Obreykovi str. #48
Commercial Director: Stoyan Mishinkov

+359 878 78 30 72 / stoyan.mishinkov@quantummedicalgroup.eu
www.quantummedicalgroup.eu

The PureAIR®
design has been carefully conceived to provide adequate germicidal ultraviolet exposure for air disinfection in occupied areas.
The dosage, as it applies to ultraviolet disinfection, is a function of time, and the intensity, of ultraviolet radiation, to which the air is exposed.

PRE-FILTER Included
Additionally equipped with a TiO2 filtr (photocatalys) tfor odour reduction. Unpleasant odours caused by humans and other organic compounds are reduced. The escaping air is simultaneously enriched with oxygen.

HIGHLY RECOMMENDED FOR:
- Hospital rooms
- Operating
- Clinics, Laboratories
- Pharmaceutical and food industry
- Offices
- Retail outlets
- Hotels and public places

SAFE
No risk of over-exposure.
FAST
Disinfects air in seconds.
EASY
Plug feed cable and Switch on
AUTOMATIC
Continuous disinfection without special attention.
DURABLE
Stainless Steel and Antibacterial Powder coated steel

Chemical and ozone-free air disinfection with simultaneous odour reduction.
The UV-FAN is predestined for use in rooms where people are present and can be used in 24h operation.

The PureAIR®
Air Sanitizers are germicidal ultraviolet fixtures that effectively destroy airborne microbes including bacteria, mold and virus in enclosed spaces
The continuous disinfection of the air is an essential measure against the spread of microorganisms and viruses.

Nosocomial infections are reliably prevented and people with weakened immune systems are optimally protected.

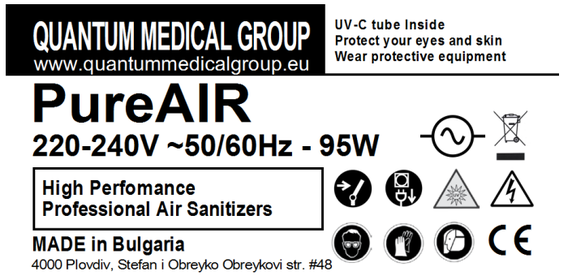
Likewise, the health risk for employees due to infections and the development of multi-resistance due to the otherwise high use of chemical disinfectants is reduced.

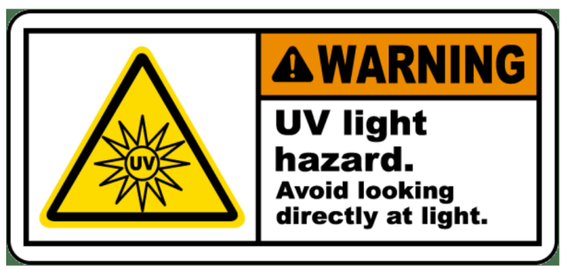
The PureAIR®
Air Sanitizers to protect occupants including but not limited to personnel, clients and patients from infection
due to airborne microbes, particularly in crowded or poorly ventilated areas, and in situations where the risk of cross infection is high.

The PureAIR®
Air Sanitizers utilize Germicidal Ultraviolet Lamps which are completely enclosed within a stainless steel exposure chamber and are safe for use in every application

CONTENT

I	Conventional symbols noticed on devices	page 5
II	Warning / Caution	page 6
III	How it's work / Construction / Technical Characteristics	page 7
IV	Commissioning / Safety and Maintenance instructions	page 8 / 9
V	Additional Equipment / Standards	page 10
VI	Service / Warranty conditions / Ecology	page 11
	Notes / Service history	page 12 / 15





I. Conventional symbols noticed on devices

	Follow all instructions on any labels or tags. Carefully inspect all packing materials before discarding to prevent the loss of accessories, mounting hardware, spare parts or instructions.
	QUANTUM MEDICAL GROUP takes all possible precautions when packaging equipment to prevent damage. Carefully inspect and report all damages immediately. Do not install damaged equipment.
	This appliance must not be used by children under the age of 8 and persons with limited physical, sensory or mental abilities, or with insufficient experience and knowledge, unless they have been observed or instructed in the safe use of the appliance and understand the dangers. Children should not play with the appliance. Children should not be clean or service the appliance. Type a message

The meaning of symbols

WARNING!
This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

CAUNTION!
Caution indicates a POTENTIALLY hazardous situation, which, if not avoided, MAY result in minor or moderate injury.

- All personnel should be alerted to the potential hazards indicated by the product safety labeling on this unit.
- The following conventions are used to indicate and classify precautions in this manual and on product safety labeling. Failure to observe precautions could result in injury to people or damage to property.

	Do not do this
	Follow the instructions
	WARNING! UV-C Exposure
	It is forbidden to touch with fingers, insert objects, etc.
	No standing or sitting on the unit
	ELECTRICAL SHOCK or ELECTROCUTION hazard
	Make sure you disconnect the power plug from the socket.
	Make sure you turn off the power.
	Wear approved ultraviolet blocking eyewear
	Wear protective gloves
	Wear approved ultraviolet blocking face shield
	Fire hazard

WARNING!	
	Avoid exposure to direct or reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.
	To prevent the risk of severe or fatal electrical shock, special precautions must be taken since liquid is present near electrical equipment. • Always disconnect power before performing any service or maintenance.
	Make sure the power plug is clean and insert it all the way into the socket. • A dirty plug can cause a fire or electrical shock.
	The unit must not be modified or repaired by the customer. Contact with the manufacturer. • If the power cord is damaged, it must be replaced by the manufacturer or authorized services to avoid hazardous situations.
	Do not insert fingers or any objects into the holes for inlet or outlet air. • This may cause serious injuries.
	In case you notice any unusual signs (in case of a burnt smell, for example), stop the unit and pull the plug of the power cord from the socket or switch off the main power supply. • Continued operation of the unit in the event of an abnormal condition may result in damage, fire or electrical shock. In such cases, contact the manufacturer or authorized services.
	Do not wind, pull, damage, or modify the power cord. Do not expose it to heating or place any objects on it. • This may cause a fire or electric shock.
	UV-C light sources contain a small amount of mercury - beware of breakage! If you break a lamp, ventilate the room where the breakage occurred. Clean with a mercury vacuum cleaner or other suitable means that avoid the formation of dust and mercury vapors, such as a towel or syringe, which are also discarded after use, as well as personal protective equipment. Hand over the hazardous waste to the local branch of the Ministry of Environment and Water with the help of a closed container.

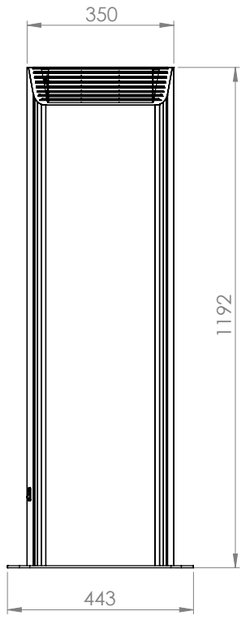
CAUTION!	
	Indoor Use Only – The equipment must be sheltered from exposure to the elements and extremes in temperature.
	The sanitizer must not be exposed to moisture, condensation, water vapor or vibration.
	The sanitizer should only be used and stored in dry rooms with a temperature range from 10° to 40° Do not cover the unit. No standing or sitting on the unit
	Avoid exposure to direct or reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin. Use all protective equipment
	Always use protective equipment when replacing the UV-C light source.
	Do not change the design and construction of the unit.
	Do not use the unit for any purpose other than those intended in this guide.
	Do not remove any warning signs or stickers from the unit.
	UV-C light sources should be cleaned every month carefully with a cotton cloth and alcohol. The germicidal ultraviolet lamps used in the PurAIR® have a manufacturer's rated average effective life of 9000 hours.Lamps may operate longer than their rated effective life, but the reduction in ultraviolet output will make it impractical to use past the manufacturer's rated life. For maximum efficiency lamp replacement is recommended every six months of continuous operation.
	Repair of the unit or replacement of electrical parts must only be carried out by the manufacturer or a authorized services.

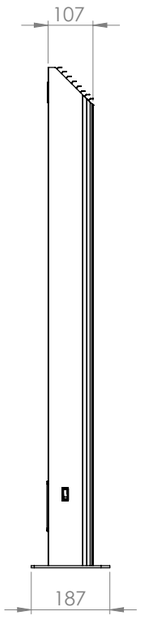
How it's work / Construction

• Original PHILIPS® bactericidal ultraviolet lamps, which delivers ultraviolet energy with a specific wavelength of 254 nanometers (nm) and are highly effective against microbes in the air, including: virus, bacteria and mold spores.
• The device consists of a special UV powder coated outer housing and a stainless-steel inner housing in which the UV-C tube is installed.
• With the help of two fans, air is forced into the disinfection chamber.
• The special construction prevents direct and indirect radiation of UV radiation.
• The device also has filters for capturing solid particles.
• Quick and easy access to replace the UV-C light source.
• Designed for use in hospital rooms, operating rooms, clinics, laboratories, pharmaceutical and food industries, offices, retail outlets, schools, kindergartens, homes.

Technical Characteristics

Input Voltage, Frequency	220-240V / 50-60Hz	
Electrical Power	95W (UV-C lamp with 2G11 socket)	
Ingress protection	IP20	
Recommended room volume [m3/h]	up to 120 m3/h	
Noise emission [dB]	47 dB (+/- 5%)	
Operating temperature [C°]	5° to 40°	
Dimensions (mm)	Height:	1192
	Width:	350
	Depth:	107
UV-C tube	Brand:	PHILIPS
	Installed light	1
	Consumption	95W
	Wavelenght	254 nm
	Tube replacement interval [h]	9000 hrs (75 % ±5 % output performance)





Unpacking

• Remove the PurAIR® Sanitary from its shipping container.

• Carefully inspect all packing materials to prevent the loss of accessories, mounting hardware, spare parts or instructions. Do not discard packing materials until sterile conditioner is assembled and all components are accounted for.

• QUANTUM MEDICAL GROUP takes all possible precautions when packaging this model to prevent damage.
Carefully inspect the Sanitary Conditioner for damage, report all damage immediately.
Do not assemble or operate if there is any damage, visible or suspected.

Installation

	CAUTION!
1.	After removing of packaging and product verification that everything is without defects, injuries, missing parts and accessories you can proceed to plugging in the Schuko socket. Plug the unit into an approved ground fault circuit interrupter (GFCI) receptacle. Do not operate without proper electrical ground.
2.	Switch on through using the switch, located in the lower left corner of the unit
3.	After switching on, only a slight noise should be heard from the operation of the air fans. If you hear loud noise or any other disturbing circumstances, please switch off the appliance immediately and inform the manufacturer / supplier.

Maintenance

1.	Replacement or maintenance of a light source. Attention! Unplug the power cord. Make sure that the unit does not work.	<u>Step #1</u> Turn the device from the back and push down the special fasteners and pull towards you. Fig. №1 <u>Step #2</u> Using a screwdriver or electric screwdriver, unscrew the middle cover of the appliance as shown in Fig. №2 and pull it towards you to open it and have access to the light source. Fig №2.1 <u>Step #3</u> *<u>Maintenance:</u>* UV-C light sources should be carefully cleaned only with a cotton cloth and alcohol. Do not touch the light source with bare hands. *<u>Light source Replacement:</u>* Always use the protective equipment described in this manual! Carefully remove the UV-C light source and place it in a place where it will not break. Then transfer it to special disposal points. Install the new light source. Close the appliance in reverse order.	Fig. #1 Fig. #2 Fig. #2.1 Fig. #3

Maintenance

2.	Maintenance WARNING! Always disconnect power to the unit before performing any service or maintenance.	Step #1 Turn the device from the back and push down the special fasteners and pull towards you. Fig. №4 Step #2 Using a screwdriver or screwdriver, unscrew the filters located at the bottom of the appliance. Step #3 *<u>Maintenance:</u>* Wash them with warm water and let them dry completely. Then install them in reverse order. *<u>Filter Replacement:</u>* Replace them with new ones that you can order from your supplier or manufacturer.	Fig #4

- When transporting the devices, follow the rules prescribed on the packaging by the manufacturer.
- Switch on the device after transport, only after staying in the room for at least 1 hour for acclimatization.
- The normal operating temperature of the devices is different and is noted in the accompanying documentation.
- The devices are connected to the mains only by means of a straight and zero schuko socket.
- The mains voltage must be 230V ± 10% with a frequency of 50 Hz, in accordance with the EN IEC 60038 standard.
- No objects should be placed on or around the devices that would impede their ventilation and cooling.
- In case of thunderstorms, disconnect the devices from the sockets
- The devices must be protected from shocks and shocks
- Device is not moisture and waterproof and should be installed in rooms with humidity not exceeding 85% RH.
- If a device is connected to a power strip, no other large power consumers, such as electric radiators, stoves, air conditioners, etc., should be connected to the power strip

Additional Equipment

TIO2 FILTER

The reduction of the environmental atmospheric pollution can be achieved by a natural reaction, called photocatalysis.
TiO2 photocatalytic air filters help you enhance productivity by radically improving air quality, reducing odors, and destroying microscopic particles that can lead to illness. This, in turn, can have a measurable effect when preventing illness from disrupting the workplace. Photocatalytic technology goes a step beyond air filters you might have used in the past due to its ability to attack mold, viruses, and bacteria in the air and on surfaces.

AVAILABLE SOON

- SMART CONTROL PANEL
- REMOTE CONTROL SYSTEM

Monitor and control remotely by Remote / App

- PIR SENSOR

Standards

- 60335-2-65
- 55014-1,2
- 61000-3-2,
- EN 60335-1
- EN 60335-2-65
- EN 55014-1
- EN 55014-2
- EN 61000-4-6

Complaints

COMPLAINTS
• The customer lodges a complaint during the warranty period immediately after noticing the damage.
• The complaint is submitted to the specified phone number:
+359 878 78 30 72 or email:
Stoyan Mishinkov - stoyan.mishinkov@quantummedicalgroup.eu
• The repair of the defective product is carried out within the legal term up to 30 days.

IRREVOCABLE DEFECTS.
• In case of an irreparable defect during the warranty period, the SUPPLIER replaces the defective product with a new one within 30 days after establishing the irreparable defect.
• Replacing a defective product with a new one is done with the same model. If at the moment, the given model is no longer offered for sale by the SUPPLIER, it is replaced with its new analogous model, without the customer having to pay for it.
For damages caused by non-fulfillment of item 1 described below by this warranty card / conditions or circumstances independent of the SUPPLIER, the same is NOT responsible, the warranty is void and the elimination of damages is only against payment.

Warranty conditions

• Warranty - 24 months from the date of purchase of the product.
• The warranty period of 24 months only applies to the disinfection device.
The sources of UV-C radiation (light sources) have a guarantee of 9000 working hours.

WARRANTY DISCLAIMER
Warranty void. The customer loses his right to warranty in the following cases
1. In the absence, deletion or damage of an identification / serial number or warranty, warning or information sticker.
1.2 In case of damage caused by improper transportation, relocation,
storage and installation.
1.3. In case of damage caused by thunderstorms, lightning, fire, flood and all other natural disasters.
14. In case of malfunction or large fluctuations in the electrical network, including instantaneous starting overvoltage / electric shock /.
1.5. In case of an attempt to eliminate a defect by an incompetent and unauthorized person from the SUPPLIER.
1.6. If the power cord is cut or damaged

Ecology

• Electrical and electronic appliances contain many valuable materials.
• They also contain certain substances, mixtures and components that were necessary for their functioning and safety.
• In household waste, as well as in improper handling, they can harm human health and the environment.
• Therefore, do not dispose of the used appliance in the household waste.

QUANTUM MEDICAL GROUP

+359 878 78 30 72
stoyan.mishinkov@quantummedicalgroup.eu
www.quantummedicalgroup.eu

4000 Plovdiv, Bulgaria, Stefan i Obreyko Obreykovi str. #48

последна промяна
01/09/2020 - Док №00101092020