





Manual: installation, use and maintenanceBIOXAIR DEVICE **BXMC and HOME SERIES**

"Air duct sanitization module" with Bioxigen® system for air and surfaces sanitization

Product code:

BXMCB2

BXMCC2

BXMCC4

BXMCC6

BXMCH4

BXMCH6

BXMCB2TFD125

BXMCC2TFD160

BXMCC4TFD200



CONFORMITY DECLARATION



The	company
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Skill Group Srl

Based in

Via Lombardia, 2 37044 Cologna Veneta (VR) ITALIA

Delcares, under its full responsability that BIOXIGEN® sanitization devices

Models:

BIOXAIR SERIES (BXMCB2 - BXMCC2 - BXMCC4 - BXMCC6 - BXMCH4 - BXMCH6) BIOXAIR HOME SERIES (BXMCB2TFD125 - BXMCC2TFD160 - BXMCC4TFD200)

Manufactured by Skill Group Srl Comply with the following CE directives:

2014/35/UE LOW VOLTAGE DIRECTIVE
RoHS II 2011/65/UE DIRECTVIE
2012/19/UE RAEE DIRECTIVE Register number IT08070000005370
ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2014/30/EU

Skill Group Srl

Andrea Mantovani Legal representative

Cologna Veneta, 08/01/2020

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1. GENERAL INFORMATION

1.1 Introduction, unit identification, symbols

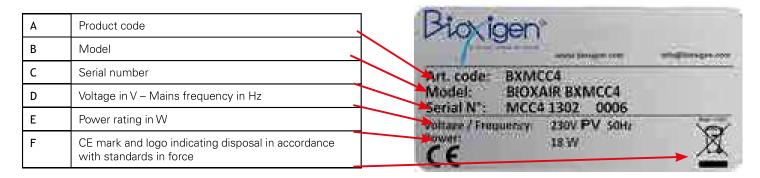
CONGRATULATIONS AND WELCOME TO BIOXIGEN®.

Thank you for having chosen our product.

This manual contains the information and instructions required for transport, installation, use and maintenance of the Bioxigen® sanitization modules manufactured by Skill Group Srl (hereinafter also called manufacturer). The user will find all the information normally needed for a correct and safe installation of the Bioxigen® sanitization devices. Failure to observe the instructions provided in this manual and/or improper installation of the device may cause the annulment of the manufacturer's warranty on its products. Moreover, the manufacturer is not liable for any direct and/or indirect damage due to incorrect installation or damage caused by units installed by inexperienced and/or unauthorised personnel. As soon as you receive your purchase, please make sure that the device is intact and complete.

Any complaints must be made in written form within 8 days from the delivery of the goods.

UNIT IDENTIFICATION



CE identification

The Bioxigen® sanitizer is CE marked in accordance with European Union requirements, Directives 2004/108/CEE, 2006/95/CEE, 2006/42/CEE and later amendments.

Important note

Bioxigen® devices are designed and built to purify air in civil, industrial and food environments but they are not compatible with toxic and flammable gases.

The devices must never be used in places where air is mixed and/or altered by gaseous compounds and/or solid particles. The manufacturer and its distributors don't take direct and/or indirect responsability if the device is used for purposes other than those described in this manual.

SYMBOLS



WARNING



IMPORTANT: AUTHORISED PERSONNEL ONLY





DANGER



DANGER: RISK OF ELECTRIC SHOCKS

1.2 General warnings and instructions



This instruction booklet is an integral part of the device and consequently must be kept with care and must ALWAYS accompany the device, including when this is sold to another owner or user or transferred to another system. If lost or damaged, another copy can be ordered from the manufacturer.



Repair and maintenance must be performed by the manufacturer's authorised personnel or by other qualified personnel as described in this booklet. Do not modify or tamper with device as this may create danger situations; the manufacturer is not liable for any damage caused as a consequence.



After having removed the packaging, make sure the contents are complete and intact. If anything is missing or damaged contact the company that sold the device.



The manufacturer accepts no liability for damage to people, animals or things due to errors made during installation, adjustment and maintenance or improper use.

We would like to remind you that the use of products that use electrical energy, involves the observance of many fundamental rules of safety which:



It is forbidden to use the device in the presence of children and unassisted unable people.



Do not touch the unit barefoot or with wet or damp parts of the body.



Never perform any maintenance or cleaning operations before having disconnected the unit from the mains power supply, moving the main system switch to "OFF".



Do not modify safety or control devices without authorisation and instructions from the manufacturer.



Do not pull, detach or twist the electrical cables coming from the unit, even when disconnected from the mains power supply.



Do not sit or stand on the appliance and/or place any type of object on top of it.



Do not spray or drop water directly onto the device.



Do not disperse, abandon or leave the packaging material within the reach of children as it may be a potential source of danger.

1.3 The Bioxigen® system (summary DESCRIPTION of the technology's OPERATING PRINCIPLE)

The Bioxigen® technology generates a flow of negative oxygen ions in the air.

The oxygen ions are produced through an electric field oscillating in the air that makes the molecules vibrate, increasing their kinetc energy and as a result exchanging electrons when colliding, producing negative oxygen ions and positive ions $(_{02}^-$ and N_2^+). That charged particles also act upon the molecules to eject electrons. Negative ions collide with airborne particles such as dust, pollen, bacteria, dander and smoke.

The negative ion transfers its charge to the polluting particle creating a new negatively charged particle, which continue to attract positive particles until the particles become heavy enough to fall out of the air. The ions are strongly attracted to the nearest "earthed" surface. As they drift, pollutants such as dust, pollen, cigarette smoke and even vapourised substances are attracted to and cluster around the ions. This has the effect of making the ion grow in size. There comes a point where it is too heavy to be carried in the air, so it falls to the ground.

The result is an efficient microbial elimination in the air and on the surface. BioxAir products are especially made for insertion in new or existing air ducts, continuously preventing the risk of bacterial contamination and with low energy consumption or inside AHU, air duct systems, and heat recovery units.

Bioxigen® devices are also applied in high-risk departments, such as operating theatres, intensive care units, areas of production and packaging of products or food where a combination between filtration with air sanitization is needed. These spaces are usually served by air treatment plants designed for air filtration, but not effective in decontaminating the microbial population brought into the environment by people or neighbouring environments.

BIOXIGEN® devices play an important role in preventing microbial contamination caused by sudden failures or inefficiencies of the air filtration systems. Obviously the identification of the device suitable for a specific use and its sizing is the task of our staff helped, when it's necessary, by consultants: biologists, microbiologists etc.

Any further technical, commercial or scientific information is available by contacting us at the following e-mail address: **info@bioxigen.com.**

1.4 Constructional characteristics

The BioxAir series modules BXMC have been designed for easy use and installation in air ducts.

The objective of the installation of the Bioxigen® BXMC sanitizing systems is to reduce the bacterial load inside the air ducts through the ionization of the air flow. As it crosses the quartz condensers, the ionized air will be introduced inside the environments improving the IAQ of the treated rooms.

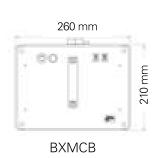
They can also be used to reduce the odours in ducted air expelled from environments such as kitchens, fish or meat processing rooms, etc.

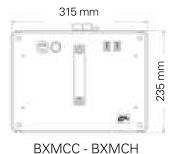
The products of the **BXMC** series consist of a plastic casing composed of a lid and a box. All the electrical and active part is connected to the lid. The box is fixed to the air duct generally on the side by cutting a rectangular part where quartz condensers can pass through and which must be exposed to the air flow to be treated.

Home Series products consist of a casing equipped with collars for the direct insertion of the device in the circular air ducts. The collars have predefined diameters (125 mm, 160 mm, 200 mm). The module must be inserted into the ductwork in a rigid way.

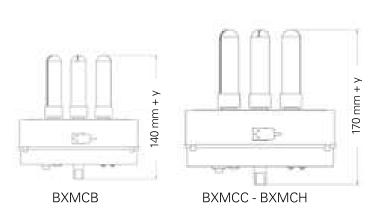
In the BXMC and Home Series there are several models which refer to different airflow rates.

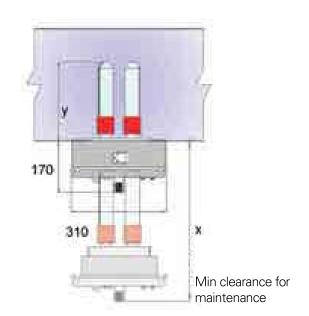
The following are the dimensions for **BXMC** series maintenace activities:



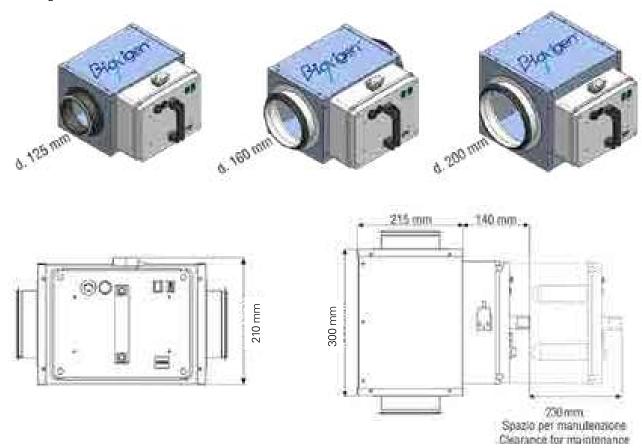


Dimensions	X	Y
BXMCB	400 mm	140 mm
BXMCC	470 mm	210 mm
BXMCH	700 mm	440 mm





The following are the dimensions for **Home Series** maintenance activities:



1.5 Technical data

		BXMCB2	BXMCC2	BXMCC4
Peso netto / Weight	Kg	4,4	4,5	5,8
Alimentazione / Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Consumo / Consumption	W	6	9	18

		BXMCC6	BXMCH4	BXMCH6
Peso netto / Weight	Kg	6,0	7,5	8,0
Alimentazione / Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Consumo / Consumption	W	27	30	38

		2*BXMCH4	BXMCH4 + CH6	2*BXMCH6
Peso netto / Weight	Kg	15,0	15,5	16,0
Alimentazione / Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Consumo / Consumption	W	60	68	76

		BXMCB2T125	BXMCC2T160	BXMCC4T200
Peso netto / Weight	Kg	4,4	4,5	5,8
Alimentazione / Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Consumo / Consumption	W	6	9	18

1.6 Indicative room dimensions for the use of the equipment

The unit volumes are indicative and may vary, even widely, depending on the air quality, the average number of people and the load in the volume to be treated.

MODELLO / MODEL	BXMCB2				BXMCC2					BXMCC4					
Portata aria max Max air flow-rate	≤ 500 m³/h			≤ 1 000 m³/h					≤ 2 000 m³/h						
Velocità aria sul canale	3,5	4,5	6,0	8,0	10,0	3,5	4,5	6,0	8,0	10,0	3,5	4,5	6,0	8,0	10,0
Duct air speed	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms
Lunghezza max sanificabile	25	30	35	40	45	25	30	35	40	45	25	30	35	40	45
Max ducting length for sanitization	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m

MODELLO / MODEL	BXMCC6				BXMCH4				BXMCH6						
Portata aria max Max air flow-rate	≤ 3 000 m³/h				≤ 5 000 m³/h					≤ 7 000 m³/h					
Velocità aria sul canale	3,5	4,5	6,0	8,0	10,0	3,5	4,5	6,0	8,0	10,0	3,5	4,5	6,0	8,0	10,0
Duct air speed	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms
Lunghezza max sanificabile Max ducting length for sanitization	25	30	35	40	45	25	30	35	40	45	25	30	35	40	45
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m

	2*BXMCH4				BXMCH4 + BXMCH6				6	2*BXMCH6			
Portata aria max Max air flow-rate	≤ 10 000 m³/h			≤ 12 000 m³/h					≤ 14 000 m³/h				
Velocità aria sul canale	4,5	6,0	8,0	10,0	3,5	4,5	6,0	8,0	10,0	4,5	6,0	8,0	10,0
Duct air speed	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms	ms
Lunghezza max sanificabile	30	35	40	45	25	30	35	40	45	30	35	40	45
Max ducting length for sanitization	m	m	m	m	m	m	m	m	m	m	m	m	m



	BXMCB2T125	BXMCC2T160	BXMCC4T200
Portata aria max Max air flow-rate	≤ 250 m³/h	≤ 600 m³/h	≤ 1 200 m³/h
Dimensione ambiente** Indoor environment**	80 - 100 m²	200 - 250 m²	400 - 500 m²

^{**} Dimensione ambiente riferita a un ricambio d'aria tra 0,3 e 0,5 Vol/h.

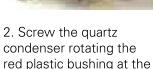
 $^{^{*\,*}}$ Indoor environment size, referred to an exchange of air between 0,3 and 0,5 Vol / h.

1.7 Duct installation

1. Install the seal.









3. Attach the metal tab to the condenser and make sure that the external mesh coincides with the internal one.

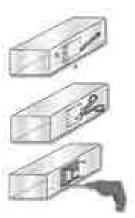


4. Insert the safety lock

1. Draw the dimensions of the hole (225 x 145 mm) according to the model of the product using the template provided for the BXMC series.

base.

- 2. Use a jigsaw or cutters to remove the marked section of the duct and remove sharp edges.
- 3. Place the BioxAir device on the side of the air duct and screw.



2. TRANSPORT

2.1 Packaging



BioxAir devices and their accessories are shipped in special protective packaging and must be kept intact until the assembly. Materials that have not been already installed, due to technical requirements, are supplied packaged in a suitable casing, fixed inside or outside the device itself.

2.2 Handling and transport

For handling use, depending on weight, appropriate means as provided for in Directive 89/391/EEC and subsequent amendments.

The weight of each individual device is shown in this manual. Avoid shocks, high stresses or overturning of the packaging. The product must be considered as fragile, therefore careful diligence must be reserved for loading operations.

2.3 Inspection upon receipt

When receiving the device, carefully check all the parts to ensure that no damage has occurred during transport. Any damage found must be reported to the carrier, accepting the goods with reservation and specifying the type of damage on the delivery documents. Any complaints must be made in written form within 8 days from the delivery of the goods.

2.4 Lifting





Careful attention must be paid when handling the device during the unloading and positioning operations, to avoid damage to the casing or to the components.

2.5 Storage

In the event of extended storage, keep the devices protected from dust and away from sources of vibrations and heat. Storage temperature range from -10°C to +50°C with humidity from 10% to 90%.

The manufacturer declines all responsibility for damage due to inexperience in the operations of handling of the devices or inexperience in the storage phase. The manufacturer declines all responsibility for damage in case of lack of protection from atmospheric agents.

DISTRIBUTOR IN VIETNAM:

3. INSTALLATION AND COMMISSIONING

3.1 Definitions

USER: The user is the person, organisation or company that has purchased or leased the device and that plans to use it for the intended purposes.

OPERATOR: The operator is the physical person authorised by the user to operate the device.

SPECIALIST PERSONNEL: These are people who have been specifically trained and are thus able to identify the dangers deriving from the use of this device and conseque



WARNING!!!

Before performing any work on the devices read carefully ALL the instructions provided in this manual

3.2 Safety instructions



The Manufacturer declines any responsibility for failure to observe the following safety instructions. The manufacturer is not liable for any direct and/or indirect damage due to incorrect installation or damage caused by units installed by inexperienced and/or unauthorised personnel.

- The devices must be installed strictly observing the instructions provided in this manual.
- During installation, wear suitable safety clothing, for example: glasses, gloves, etc., as described in EC 686/89 and later amendments.
- Always observe the laws in force in the country where the device is installed relating to the use and disposal of the
 packaging and the products used for cleaning and maintenance of the device, as well as the recommendations of
 the manufacturer of such products.
- Before switching on the device, check the perfect integrity of the various components and the electrical system to which it must be connected, making sure that a residual current circuit breaker is installed upstream of the power supply line, as indicated in this manual.
- Never insert any type of object into the device through the protection grills.
- Never start any maintenance or cleaning work until the power supply has been disconnected.
- Maintenance and replacement of damaged or worn parts must only be performed following the instructions provided in this manual.
- Spare parts must correspond to the requirements defined by the manufacturer.
- If you want to decommission the Bioxigen® device, observe the legislation in force relating to the prevention of pollution in the country where the device is installed.
- Do not pour water or liquids onto the device.
- Do not insert any type of objects into the slits on the Bioxigen® devices. The contact with voltage or electrical terminals may cause fire or electric shock.
- Place the device in such a way that the power cable is not stepped on.
- Do not connect the device to power lines which are connected to other electrical consumers or devices of any kind.
- The device has cracks and openings useful for ventilation, do not block or cover these openings.
- Do not place the device on soft surfaces (such as beds, sofas, carpets, etc.) and make sure you always leave space for adequate ventilation.
- Use the power supply indicated on the label. If you are not certain about the type of power supply available, contact your reseller or the local power company.
- Do not touch the internal parts of the Bioxigen® device, unless otherwise indicated in the instructions provided in this manual. Never force components during assembly: even though the device is made from sturdy materials, its parts may be damaged if not handled properly.
- Do not attempt to perform maintenance on your Bioxigen® device, unless expressly stated to do so in this manual. Opening or removal of the outer casing may expose you to dangerous voltage or involve other risks. All maintenance work must be carried out by personnel in charge, except in the cases indicated in this manual.

- Disconnect the device from the power supply and contact qualified service personnel (dealer, manufacturer) in the following cases:
 - Water or other liquid has been poured onto the device
 - Exposure of the device to weather
 - Malfunction, despite all the installation procedures having been completed correctly
- Do not install the device in areas exposed to the weather. The IP protection rating of BioxAir devices is IP20.
- BioxAir devices must only be installed in air ducts of air conditioning or mechanical ventilation systems as described in point 1.5. No other type of installation or use of the devices is permitted.
- The air ducting must be adequate to support the weight of the device.

N.B. The installer and user of the Bioxigen® device must take into account and eliminate all other types of risk relating to the system.

These include, for example, risks due to foreign objects entering the device, or risks due to flow of dangerous flammable or toxic gases at high temperatures.

3.3 Preliminary operations





- Check that all the components on the device are perfectly intact.
- Check that the packaging contains the documents and any accessories required for installation.
- Move the packaged section as near as possible to the place of installation.
- Never stack other equipment or weights on the device, nor place it on unstable surfaces.

3.4 Choice of Place of Installation

- Do not place the device in rooms where there are flammable gases, acids, aggressive and corrosive substances that can damage the various components beyond repair.
- Provide enough clearance to make installation and routine and extraordinary maintenance possible.

3.5 Disposal

At the end of use, Bioxigen® devices must be disposed of in compliance with the regulations in force in the country of installation for the disposal of electrical and electronic devices.

The materials that compose the units are: Stainless steel, Aluminium, Glass, Nylon, Plastic, Paper and Cardboard.

4. ELECTRICAL CONNECTIONS







Before starting any operations, make sure that the main power line is disconnected

- The electrical connections must be done by specialised personnel according to the instructions in this manual.
- Make sure the voltage and frequency on the plate correspond to those of the power line of connection.

Perform the connection with the proper sized cables and in compliance with local legislation.

- The power supply line of BioxAir devices must be dedicated. There must be no other devices powered by the same line. The use of adapters, multiple sockets and/or extensions is not permitted.
- The installer has to install the device as close as possible to the disconnector unit of the power supply, as per current regulations and as necessary for the protection of electrical parts.

4.1 Power supply

The BioxAir device leaves the factory fully wired and only requires connection to the network of power supply.

The power supply must be brought to the three-pole connection socket of the supplied module and must include upstream differential protection switches as per current legislation. The power socket fixed on the box is equipped with fuse.

Before making any connection, make sure that the voltage is the same as that indicated on the label.

The presence of voltage inside the equipment is indicated by the green light and when the device is switched on you can hear a slight crackling sound coming from the condensers. This means that the device is working.





5. DEVICE USE

BioxAir series devices are equipped with an "S" indicator light, an "I" switch, a "P" button, a 4-pole connector and an electronic card that regulates its operation. The "S" indicator light comes on when the luminaire is electrically powered and signals the presence of electrical voltage inside the device.

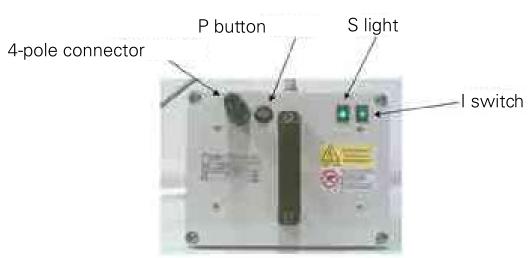
You must press the I/O switch and move it to the "I" position, to switch on the device. The switch will light up indicating that the device is working and you can hear a slight crackling coming from the condensers. This means that the device is working.

Between terminals 3 and 5 there is a contact that signals any malfunctioning of the device.

In the event of device failure, the contact changes its state from normally open (NO) to normally closed (NC) . To reset a possible malfunction signal, press the "P" button for 3 seconds. In case of alarm persistence contact the manufacturer.

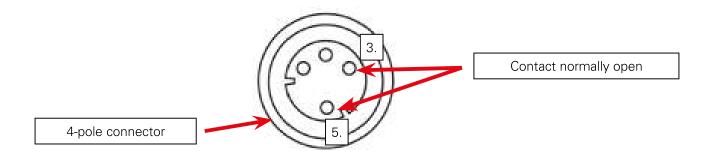
Alarm contacts 3 and 5 also have the function of indicating the need for cleaning/maintenance of the condensers. The need for cleaning/maintenance of the condensers is signalled by the continuous inversion of the contacts which pass alternately from the normally closed position to the normally open position at regular 1 second intervals.

After cleaning the condensers, you have to press the "P" button for 3 seconds in order to reset the maintenance request signal.



5.1 4-pole connector

The contact between the terminals 3 and 5 of the 4-pole connector can be connected to a digital acquisition of a supervision system. This allows the remote signalling of any alarms and the request for cleaning, which is necessary for the correct operation of the device.



6. MAINTENANCE 6.1 Warnings





BEFORE PERFORMING ANY MAINTENANCE OPERATIONS, MAKE SURE THAT THE DEVICE IS NOT AND CANNOT BE ACCIDENTALLY POWERED. POWER MUST BE DISCONNECTED FOR ALL MAINTENANCE

- The operator is responsible for ensuring that all maintenance operations are performed.
- If a malfunction occurs, disconnect the device from the mains power supply and contact specialist personnel (dealer, manufacturer).
- Only authorised, previously trained and qualified personnel can perform maintenance operation



WORK GLOVES SHOULD BE USED WHEN PERFORMING MAINTENANCE OPERATIONS



The frequency of the operations to be performed in order to ensure proper maintenance of the sanitizating modules depends primarily on the quality of the air treated.

The air can be particularly damaging when it contains polluting or aggressive substances in significant amounts:

- Industrial exhaust
- Saltiness
- Chemical mists
- Heavy dust

Obviously, when these substances come in contact with the inner and outer surfaces of the device through the air flow or through direct exposure, over time and without proper and systematic maintenance, they can create structural and functional decay of the device itself.

6.2 Sheduled maintenance

The Bioxigen® technology requires little maintenance, consisting of periodic and regular cleaning of the quartz condensers and mesh electrodes according to the procedures set forth below.

The cleaning frequency varies according to the applications, from a maximum of once per month to a minimum of once every four months.

For replacement parts, check the item code on the CE label and communicate it to your Bioxigen® distributor or consult the following table.

Item code present on serial label	Type of part	Part code	Spare parts Q.ty
BXMCB2 - BXMCB2TFD125	Condensatore Tipo B	BXCONB	2
BXMCC2 - BXMCC2TFD160	Condensatore Tipo C	BXCONC	2
BXMCC4 - BXMCC4TFD200	Condensatore Tipo C	BXCONC	4
BXMCC6	Condensatore Tipo C	BXCONC	6
BXMCH4	Condensatore Tipo H	BXCONH	4
ВХМСН6	Condensatore Tipo H	BXCONH	6

For further information, consult the website www.bioxigen.com or send an email to info@bioxigen.com.

6.3 Cleaning device procedure



lighted green 0/l



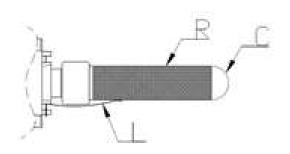
Device removing

- 1. Turn off the device using the **lighted green 0/I switch**, moving it to the 0 position.
- 2. Unplug it.
- 3. Unscrew the cover, holding the box cover up by the handle.
- 4. Gently unscrew the quartz condenser using the red plastic bushing at the base of the condenser. Remove the device by pulling it out of the box fixed to the wall, by supporting it from the handle with linear movement until you extract completely the glass condensers.
- 5. Remove the mesh (R) from the outside of the tube. If the operation is difficult, lightly rotate the mesh around the quartz condenser.
- 6. Clean the condenser with a slightly damp cloth.



WARNING!! Do not use detergents, soaps or the like





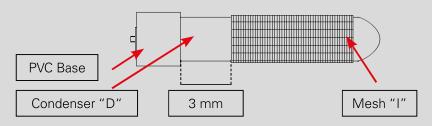


- 7. Clean the mesh under hot running water and dry thoroughly with a cloth.
- 8. Make sure the condenser has no cracks or other damage. If it does, replace it.
- 9. As soon as you notice a white coating on the metal grill inside the condenser, it must be replaced. Generally, the tube must be replaced within a maximum of 18 months. Condenser replacement is suggested every 8.000 to 14.000 hours of continuous operation and must be done within 18 months. This variability depends upon the quality of the air that is treated.
- 10. Reset the metal mesh on the condenser overlapping the inner grill.



WARNING!! Leave a minimum distance of 3 mm from the bottom of the condenser.





- 11. Clean the outside of the device.
- 12. Reset the condenser on the spring and screw it back in its housing using the red bushing.



- 13. Insert the device back in, checking that the cover on the box is perfectly closed.
- 14. Tighten the screws of the box by fixing the cover.
- 15. Plug in the power socket.
- 16. Turn the appliance on by pressing the green button and returning it to position I.
- 17. Check the operation of the equipment. You should now hear a slight noise.

Make sure the Bioxigen® device is working. See if it responds to commands. If there is a malfunction, unplug it and consult a technician.

6.4 Extraordinary maintenance

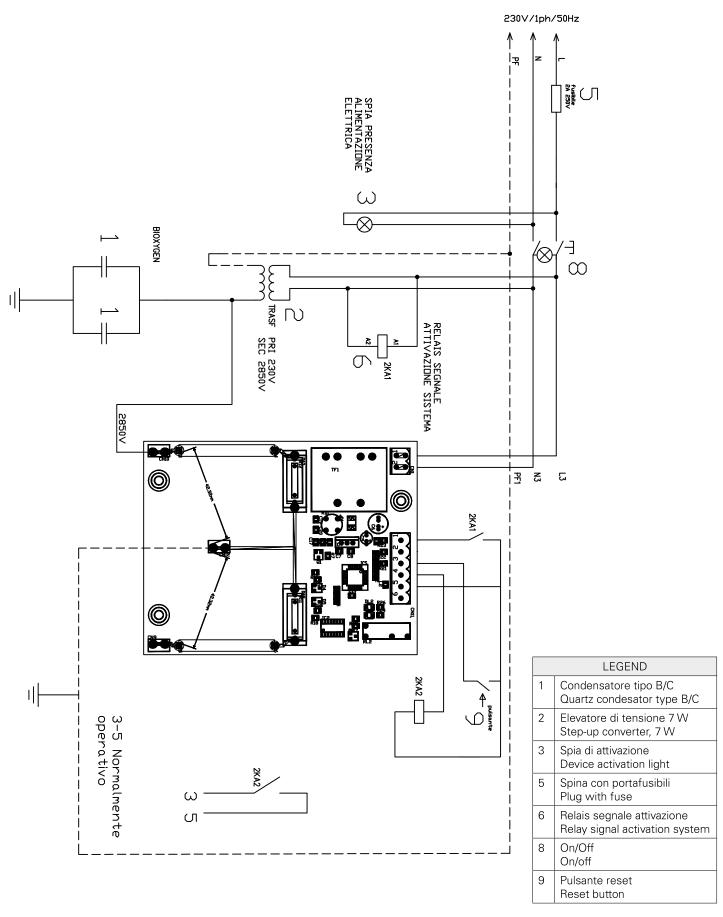


The only part that is subject to wear is the electrical condenser whose efficiency decreases over time. When signs of wear appear the component must be replaced. These signs are the appearance of oxide on the internal mesh of the condenser and clouding of the quartz glass.

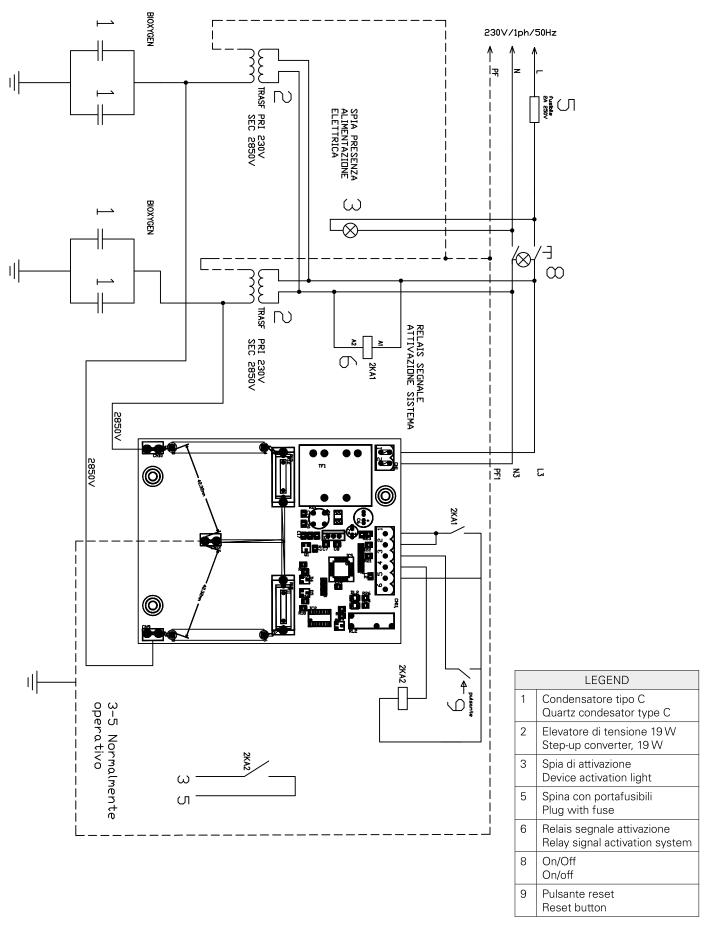
The maximum life of the condenser under normal operating conditions is 16.000 hours.

7. ELECTRIC DIAGRAM

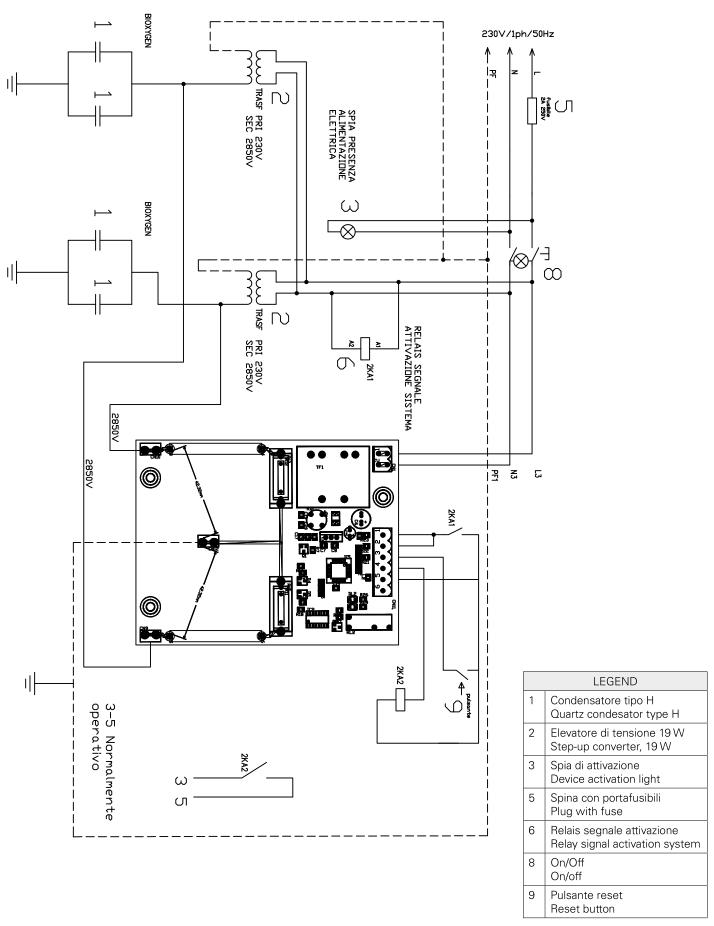
7.1 Table electrical diagram BXMCB2, BXMCC2, BXMCB2TFD125, BXMCC2TFD160



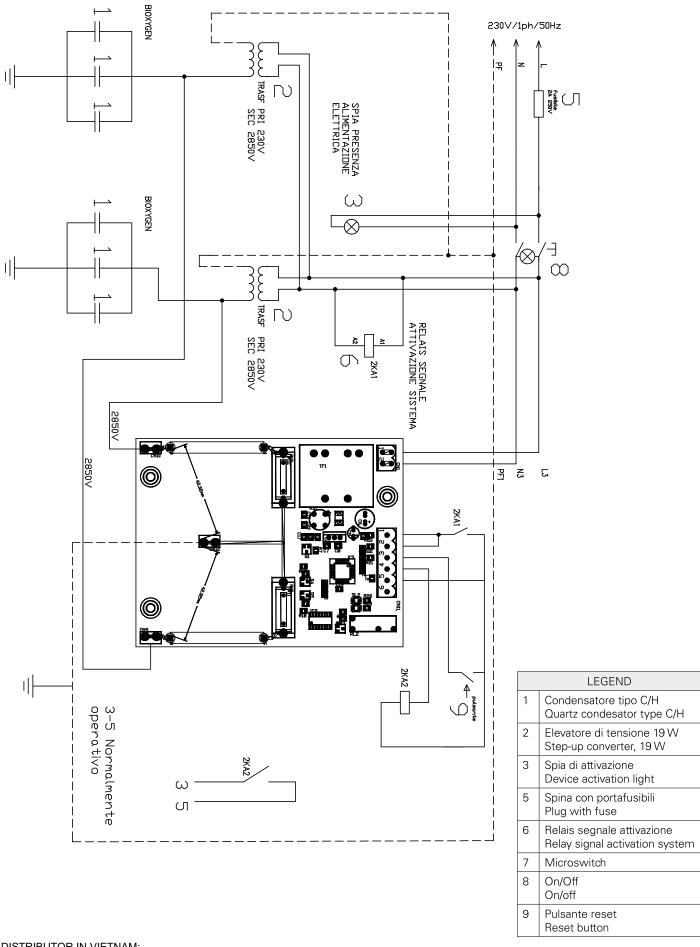
7.2 Table electrical diagram BXMCC4, BXMCC4TFD200



7.3 Table electrical diagram BXMCH4



7.4 Table electrical diagram BXMCC6/BXMCH6



8. MAINTENECE JOURNAL

DATE	OPERATOR	TYPE OF MAINTENANCE

Note	

