

mate plus

USE AND MAINTENANCE MANUAL



AIR PURIFICATION AND AIR SANITIZATION DEVICE ACTIVE SANITISATION OF INTERNAL COMPONENTS WITH ADVANCED COLD PLASMA TECHNOLOGY





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Thank you purchasing the JONIX mate plus device.

This manual contains the information and anything deemed necessary for the transport, installation, use and maintenance of the active sanitizing and air purification device JONIX mate plus. Improper installation of the device and/or failure to comply with the instructions in this manual, may void the warranty that the Manufacturer issues for its products. The Manufacturer is not liable for any direct and/or indirect damage caused by incorrect installation or damage caused by units installed by inexperienced and/or unauthorised staff. At the time of purchase, check that the device is intact and complete. The Manufacturer declines any liability in case of personal injury or property damage resulting from any improper use of the device or from the failure to observe the use and safety instructions specified in this manual. In any such case, any warranty claim will be void.

Any complaints must be submitted in writing within **8 days** of receiving the goods.



1 - GENERAL INFORMATION

1.1 CE PLATE AND SERIAL NUMBER

The device described in this manual is provided with a nameplate identifying it.



IMPORTANT WARNING

The JONIX mate plus device is designed and made to sanitise the air in residential and industrial processing environments that are incompatible with toxic and flammable gases. It is therefore strictly forbidden to use the device in environments where the air is mixed with and/or altered by other gaseous compounds and/or solid particles. Using the device for purposes other than those intended and that do not comply with those described in this manual will immediately relieve Manufacturer and its distributors from any direct and/or indirect liability.

1.2 RESPONSIBILITY

Failure to comply with the instructions contained in this Use and Maintenance Manual releases JONIX S.p.A. from any liability. For any data not included or not deducible from the following pages it is recommended to consult JONIX S.p.A. directly.

JONIX S.p.A. Benefit Corporation Viale Spagna 31/33 35020 Tribano - PD - Italy http://www.jonixair.com

In particular, if the maintenance of the device is carried out in a manner that does not comply with the instructions provided, or in any case in such a way as to compromise its integrity or modify its characteristics, \mathbb{JONIX} S.p.A. will be relieved of any responsibility regarding the safety of persons, property, animals and the faulty operation of the devices.



1.3 GENERAL SAFETY INSTRUCTIONS, SYMBOLS AND DEFINITIONS

1.3.1 General safety instructions

Any intervention, of whatever nature, on the device must be carried out by prior and careful reading of this manual in all its parts, with particular reference to SAFETY.

It is essential, therefore, that the device is used in accordance with its intended use and with this manual. This manual has been drawn up to provide the necessary information for personnel dedicated to the use and maintenance of the device, until its sale or disposal. It must therefore always be available to the staff who, before carrying out any operation on the device, must read and assimilate all the information contained therein.

1.3.2 Symbols

Please pay utmost attention to the following symbols and their meaning. They emphasise specific information, such as:



OBLIGATION: This symbol draws attention to a specific obligation or action to be implemented with obligation.



WARNING: It refers to integrations or suggestions concerning the proper use of the device.



HAZARD: It refers to dangerous situations that may result from the use of the device, in order to ensure personal safety.



FORBIDDEN: This symbol refers to operations that must be avoided under any circumstances, and hence forbidden.



HIGH VOLTAGE HAZARD!

Do not open or remove any doors or protections before disconnecting the voltage supply.



OBLIGATION TO USE PROTECTIVE GLOVES

Use adequate hand protection in addition to other personal protective equipment suitable for the place and the operations to be carried out.



WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT.

The crossed-out bin symbol on the label on the appliance indicates that this product complies with the regulations on waste electrical and electronic equipment. The abandonment of the equipment in the environment or its unauthorised disposal is punishable by law.



1.3.3 Definitions

Below are the definitions of the main terms used in the user manual.

MANUFACTURER

Individual or juridical person who designs and/or manufactures the device and is responsible for its conformity for the purpose of placing it on the market under his own name or trademark.

SUPPLIER

Any professional operator in the marketing chain.

USER

Person, organisation or company who or which has purchased or rented the device and is going to use it for the intended purposes.

USER/OPERATOR

Individual who has been authorised by the user to operate the device.

QUALIFIED STAFF

Individuals who, on the basis of their professional training, experience, knowledge of relevant regulations and accident prevention regulations, are able to assess the work entrusted to them and recognize and avoid any hazards.

AUTHORIZED PERSONNEL

Specialised personnel, assigned by the user to carry out certain tasks.

HAZARD

Source of possible injury or damage to health and safety.

RISK

Combination of probability and severity of possible injury or damage to health and safety in a hazardous situation.

DANGEROUS ZONE

Any area within and/or close to a machine in which a person is exposed to a risk.

PROTECTIONS

Safety measures consisting of the use of specific technical means (guards and safety devices) to protect users, users and operators from hazards.

REPAIR

Element of a machine used specifically to provide protection by means of a physical barrier; depending on its construction, it may be called a headphone, cover, screen, door, fence, casing, segregation, etc.

PROTECTIVE DEVICE

Device (other than a guard) that eliminates or reduces the risk; it can be used alone or associated with a guard.



ROUTINE MAINTENANCE

Type of maintenance interventions during the life cycle, suitable for:

- maintain the original integrity of the goods;
- maintain or restore the efficiency of the goods;
- contain the normal degradation of use;
- ensure the useful life of the goods;
- cope with accidental events.

SPECIAL MAINTENANCE

Type of non-recurring and high cost interventions, compared to the replacement value of the goods and the annual cost of routine maintenance of the same.

NON THERMAL PLASMA GENERATOR NTP (Non Thermal Plasma) or IONIZING TUBE

Electric field generator that transforms gas into plasma with high chemical oxidation power able to oxidize and break down pollutants, bacteria, moulds, viruses and odours.

2 - WARNINGS AND GENERAL PROHIBITIONS



READ THE INSTRUCTIONS BEFORE ANY OPERATION

Before starting any operation, it is mandatory to read this manual and apply all its instructions.

The user must carefully read ALL the contents of this User and Maintenance Manual and have it read by the designated users and maintenance technicians, for the parts that are their responsibility.



This Use and Maintenance Manual is an integral part of the device and must therefore be kept with care and must ALWAYS accompany the device even if it is transferred to another owner or user or transferred to another facility. In case of damage or loss, request another copy from JONIX S.p.A. or download the document from www.jonixair.com.



It is the user's responsibility to ensure that, if this document is modified by J○NIX S.p.A., only the updated versions of the Manual are actually present at the points of use



Repair or unscheduled maintenance work must be carried out by personnel authorised by $\mathbb{J} \mathbb{O} NIX$ S.p.A. or by qualified personnel in accordance with this use and maintenance manual. Do not alter or tamper with the device as it can lead to hazards and the manufacturer shall not be liable for any damage caused.





The transport, handling, installation, commissioning and decommissioning of this product must only be performed in accordance with the requirements and instructions specified in this manual.



Any liability of JONIX S.p.A. is excluded for damage caused to persons, animals or property, whether due to transportation, installation, adjustment, maintenance, decommissioning or misuse.

Please note that the use of products that require electricity involves the observance of some crucial safety rules such as:



This device is not intended for use by people with reduced physical, mental or sensory abilities or lack of experience and knowledge.



This device is not a toy, make sure it is placed out of the reach of children and take precautions so that children do not play with the device.



Cleaning and maintenance intended to be carried out by the user must not be carried out by unsupervised children.



Do not touch the device if you are barefoot and with parts of the body that are wet or damp.



Any maintenance or cleaning operation before disconnecting the device from the power supply is prohibited.



It is forbidden to modify the safety and/or adjustment devices.



Do not pull, detach or twist the electrical wires coming out of the device, even when it is disconnected from the mains.



It is forbidden to get on and/or sit on the device. It is forbidden to place objects, animals or people on the device.



It is forbidden to spray or throw water or other liquids directly inside the device, even in case of fire.



It is forbidden to use the device outdoors or on wet surfaces. Do not expose to water, rain or weathering.





It is forbidden to open the access panels to the internal parts of the unit without removing the power supply and making sure that the unit cannot be accidentally powered.



It is forbidden to use the device with a damaged cable or plug.



It is forbidden to use the device if it does not work properly, has received a strong blow, has been accidentally dropped, has been damaged or left outdoors or has fallen into water.



It is forbidden to insert objects into the openings of the device.



Do not dispose of or leave the packaging material within reach of children because it can be potentially dangerous.

For the maintenance and cleaning operations (see chapter 7 "Maintenance") of the device we remind you that:



ATTENTION!

BEFORE CARRYING OUT ANY MAINTENANCE OPERATION MAKE SURE THAT THE DEVICE IS NOT AND CANNOT ACCIDENTALLY BE POWERED ELECTRICALLY. YOU MUST THEREFORE UNPLUG THE DEVICE BEFORE CARRYING OUT ANY MAINTENANCE

- It is the duty of the user to perform all the maintenance operations on the device reported in this manual.
- If a malfunction not indicated in this manual occurs, disconnect the power supply to the device and consult your dealer and/or JONIX s.p.A.
- Only trained and qualified personnel can perform maintenance operations other than those specified in this manual.



For all maintenance operations it is good practice to use work gloves to protect your hands.

- When servicing the filters, pay particular attention to your fingers to avoid the risk of pinching.
- Clean the ionising tubes every time it is shown on the display.
- Do not put back the mesh on the ionising tube if it is even partially wet.
- Check that the earthing spring is in contact with the outer mesh once the ionising tube have been screwed back into place. Otherwise contact the manufacturer.
- Do not use liquid cleaners, sprays, soap or other products directly on the device.
- Pay particular attention to the air passage grilles: check that they are clean to ensure the passage of air.



2.1 SAFETY SIGNS

Check the condition of the safety pictograms periodically and replace them if necessary. The safety signs on the machine are as follows:

Pictogram 1	Pictogram 2	Pictogram 3	Pictogram 4	Pictogram 5
4		\$		
ELECTRICAL Voltage Hazard	OBLIGATION TO READ THE INSTRUCTION MANUAL	OBLIGATION TO DISCONNECT VOLTAGE BEFORE MAINTENANCE	OBLIGATORY USE OF PROTECTIVE GLOVES	MOVING PARTS Hazard



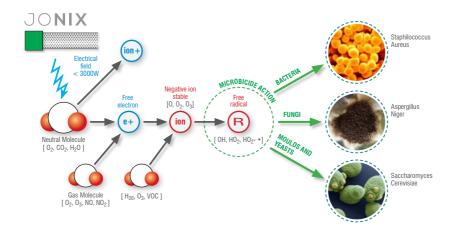


3 - THE OPERATING SYSTEM

The range JONIX mate consists of a variety of models to satisfy all air purification needs. Immediately operational, it does not require any complex operation for its installation. Compact, portable and silent, JONIX mate plus is equipped with an advanced control system that allows adjustment of the ventilation for a quick and effective response to the need for filtration and particulate reduction and removal.

This sanitizing device, exploiting the physical phenomenon of ionization, promotes the controlled formation of particular electrically charged species in the air through an electrostatic field. The latter simulates a natural process that normally occurs through solar radiation, mechanically or by other physical phenomena.

The particular ionic species produced are proven to be particularly effective as sanitizing agents in air and on surfaces, moreover they are scientifically and historically proven to be beneficial on people, especially the negatively electrically charged species (i.e. those derived from single or small groups of molecules receiving an electron).



JONIX mate plus:

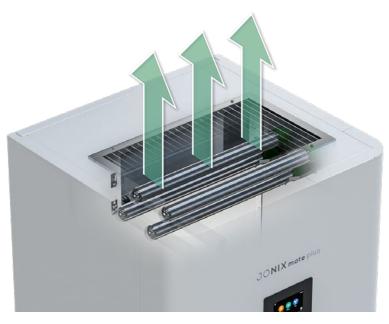
- constantly reduces and eliminates bacterial loads in the air and on indoor surfaces:
- constantly decomposes volatile organic compounds (VOCs);
- · it eliminates odours:
- is suitable for environments that need to reduce air contamination.



The device JONIX mate plus is equipped with two filtration stages. The medium filter F7 combined with the absolute filter H13 or H14 allow the reduction of airborne fine dusts and to ensure a very high degree of filtration.

The device involves the use of non-thermal plasma technology for air sanitization out of the device. In this way the ionizing charge developed allows the maximum sanitizing and purifying action of the ambient air.

The JONIX mate plus also combines filtration with non-thermal plasma technology for sanitisation of the internal components of devices.

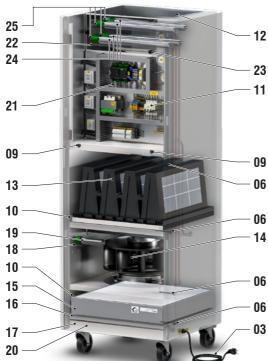


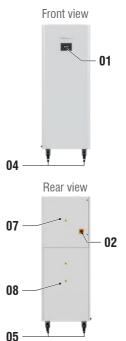
The activity of air purification and sanitisation of the internal components of the JONIX mate plus device is compatible with the presence of persons and animals. No chemicals are used and no harmful residual substances are generated.



4 - TECHNICAL DATA JONIX mate plus

Fig. 1





4.1 COMPONENT DESCRIPTION JONIX mate plus

- Display Touch screen (4.3" or 7")
- Flat Plug Power Socket Inlets with On/Off Rocker Switch
- Power cable
- Swivel casters with brake
- Swivel casters
- Pressure outlets
- Maintenance access upper door
- Bottom panel for access to the fan
- Filter access panel closing knob
- 10 Filter fixing brackets
- 11 Magnetothermic switches for fan power supply disconnec- 23 Plexiglass panel closing knob tion (Q1) and auxiliary power supply disconnection (Q2)
- 12 Air delivery grille
- 13 Absolute filter H13 or H14

- 14 Centrifugal fun
- 15 Thin particulate filter F7
- 16 G2 prefilter
- 17 Moveable aspiration mesh
- 18 1 ionising pipe ground securing bracket
- 19 1 ionising pipe for sanitisation of the elements inside the device
- 20 Connection for overpressure duct
- 21 Electrical panel
- 22 Plexiglass panel for accessing ionizing tubes
- 24 4 ionizing tubes for air sanitization
- 25 4 grounding brackets for ionizing tubes



4.1.1 Technical features JONIX mate plus

The technical characteristics and relevant data are shown on the nameplate together with the serial number identifying the device.

Model	Dimensions (L x P x H) [mm]	Power supply	Max power absorption [W]	Weight [kg]	(*) Flow rate treated air [m³/h]	Degree of Protection
JO NIX mate plus	678 x 700 x 1941	230 V / 1~ / 50Hz	870	177	2000	IP40

^{(*):} Default settings.

4.1.2 Spare parts available on order

Code	Description	Notes
JX70000002	F7 Filter	-
JX70000003	H13 Filter	For product with code 70MATEPLUS.
JX70000031	G2 prefilter	-
70CONDTIP0175	175 IONISING PIPE REPLACEMENT	No. 1 175 ionising pipe.
71KT000003	Kit 2 generators type 520 (*)	No. 2 ionizing tubes of 520.

^{(*):} To replace the 4 ionizing tubes for air sanitization, order 2 kits code 71KT000003.



5 - RECEPTION, TRANSPORT AND STORAGE

5.1 PACKAGING

The JONIX mate plus device is shipped in special protective packaging that must be kept intact until installation. The materials that were not installed for technical requirements are supplied with suitable enclosure secured to the inside or outside of the device itself.

The package includes:

- JONIX mate plus.
- no. 1 ionising pipe (for sanitisation of the internal elements) and no. 4 ionizing tubes (for air sanitization).
- Operating and maintenance manual.
- Declaration of CE Conformity.
- Warranty Terms and Conditions.

Fig. 2





5.2 HANDLING AND TRANSPORT

Unless otherwise agreed in writing in advance, no other material or goods shall be placed on top of the devices.



The carrier is responsible for securing the load on the means of transport. JONIX S.p.A. declines any responsibility in case of damage caused by loads poorly transported by the carrier.



To handle the device, use appropriate means, in good condition and suitable capacity, depending on the weight, as required by Directive 89/391/EEC and subsequent amendments.



Please take great care while unloading and positioning the devices, to prevent damaging the casing or components. Always make sure that the load is stable. Avoid uncontrolled rotations. Lifting assistance must, if necessary, be carried out with rods, levers, grappling hooks without ever using hands alone.



During lifting and/or transport and/or handling operations, provide for appropriate signalling and confinement of the dangerous zone, signalling the prohibition of access to the dangerous zone by unauthorised personnel.

5.3 INSPECTION UPON RECEPTION

When you receive the device please check all its parts, in order to make sure that it has not been damaged during transport.

Any damage must be reported to the carrier, by filling in the relevant section on the delivery note and specifying the type of damage.



Any type of complaint must be sent in writing within eight days from receiving the goods.

5.4 STORAGE



In case of prolonged storage before installation, the device must be protected from dust, weather and kept away from heat and vibration. Do not allow the device to come into contact with corrosive substances.

 $\ensuremath{\mathsf{JONIX}}\xspace S.p.A.$ declines all liability for damage due to poor handling, transportation and storage.



6 - INSTALLATION AND COMMISSIONING



 ${\sf JONIX}$ S.p.A. disclaims any liability for failure to comply with the safety and prevention standards as described below.

The Manufacturer also disclaims any liability for damage caused by improper use of devices and/or alterations carried out without prior authorisation.

6.1 SAFETY INSTRUCTIONS

- The device must be installed in strict accordance with the instructions contained in this
 manual.
- While performing installation, operate in full safety and in a clean environment clear of obstructions.
- Before switching the device on check the integrity of the various components and of the electrical mains to which it is connected, making sure that it is fitted with a circuit breaker upstream of the power line.
- Before putting the device into operation, check that the electrical system to which it is to be connected has an effective earthing system.
- Do not service or clean the device without first unplugging it from the mains.
- Perform routine maintenance following the instructions in this manual or contact JONIX S.D.A. for assistance.
- Unscheduled maintenance and the replacement of damaged or worn parts must only be carried out by specialist personnel authorised by JONIX S.p.A..
- Spare parts must meet the requirements defined by JONIX S.p.A..
- Do not insert objects of any kind into the device, as coming into contact with live parts or
 electrical terminals may cause fires or electric shocks. In case of maintenance, check that you
 have removed all tools and objects before closing the panels and restarting the device.
- Comply with the laws in force in the country in which the device is installed, regarding the use
 and disposal of the packaging and products used for cleaning and servicing the device; you
 should also observe the recommendations given by the manufacturers of such products.
- In the event of decommissioning or disposing of the MIC device, follow the anti-pollution regulations set out by the country in which the device is installed.
- Use only the power supply indicated on the nameplate. If you are not sure about the type of power supply available, ask your local retailer or electricity provider for assistance.
- Do not spill water or other liquids on the device.
- Place the device so that the power cable cannot be stepped on and/or does not cause tripping.
- Do not touch the inside of the device, unless otherwise specified in the instructions contained in this manual.
- Never force the components when installing or performing maintenance operations: although
 it is built with high strength materials, the parts of the device can be damaged if handled
 incorrectly.



- Do not try to perform maintenance work on the device, except where specified in this manual.
 Opening or removing the outer casing may expose you to dangerous live parts or may involve other risks. All maintenance work must be carried out by authorised staff, except where specified in this manual.
- Do not tamper with or modify the device.
- Do not perform maintenance or other operations in low light and visibility conditions.
- Do not modify the functional and performance components of the device.
- Do not tamper with the safety devices.
- Do not use the device after maintenance without making sure it is safe. Check that all
 components are correctly restored before restarting it.
- Do not remove or make illegible the safety, hazard, and mandatory signs on the device.
- Do not use water or liquids to put out a fire.
- The device has slots and openings for ventilation, do not obstruct or cover them, even partially.
- Always leave the necessary space for ventilation in front of cracks and openings, as indicated
 in this manual.
- Do not pull the power cord and make sure it is not too taut when connecting the device.
- Keep the cord and device away from hot surfaces
- Do not cover the cord with rugs or other similar items
- Place the cord in a position away from trafficked areas to avoid the risk of tripping
- Do not remove the plug by pulling on the cord. To perform this operation, hold the plug, not the cord.
- Extensions should not be used.
- Do not tamper with or modify the power cord.
- Use the power cord supplied with the device, do not use third party power cords
- Switch off the device before disconnecting the plug.
- Unplug when the device is not used for a long time and rewind the cord securely to avoid the risk of tripping.
- Do not use the device near ovens, fireplaces, stoves or other high temperature heat sources
- Do not use the device near naked flames.
- When using the product together with gas appliances in operation (such as gas stoves, gas water heaters, gas hobs, etc.), adequately ventilate the environment to avoid carbon monoxide poisoning.
- Do not use the device near air fresheners, essential oils, chemical additives and similar products.



- Disconnect the device from the power supply and contact JONIX S.p.A. or a dealer for service when any of the following cases occur:
 - the internal parts of the device have come into contact with water or other liquids of any kind:
 - a malfunction persists despite all the installation and/or maintenance procedures having been performed properly;
 - the power supply cable is damaged or worn.



Do not pull the power cord.



Do not place it near heat sources.



Do not use naked flames.



ATTENTION!

Any use other than that specified herein shall be deemed to be incorrect.

6.2 GETTING STARTED



- · Check that the various components of the device are fully intact.
- Check that the documentation and all components for installation are contained in the package.
- Equip yourself with suitable devices for lifting and unpacking of the device.



- Carry the device in its packaging as close to the installation site as possible.
- Do not rest weights or tools on the device, or place it on an unstable surface.



 The keys to open the front panel must be kept by the user and, if necessary, given only to authorised users. mate plus JONIX

Fig. 4: Use a screwdriver to open the top rear panel.



Fig. 5: Unscrew the knobs and remove the internal plexiglass panel to access the ionizing tubes.



Fig. 6: Take the ionising pipes.



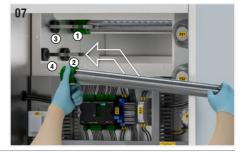
Handle the ionising pipes carefully as it is fragile.



Fig. 7: Gently screw the tubes ionizing by grasping them at the base (part green). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.



To simplify operations, it is advisable to start with the tube in the plus position backward (①).







ATTENTION: do not overtighten the screw after reaching its end stop.



Check that the earthing spring is in contact with the outer mesh once the ionising tubes have been screwed back into place. Otherwise contact the manufacturer.

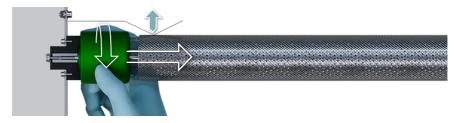


Fig. 8: Reposition the plexiglass panel. Screw the knobs back on.

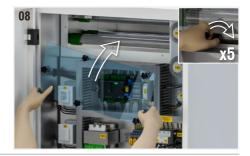


Fig. 9: Unscrew the 2 knobs which keep the rear bottom panel for maintenance access.

Lift and then pull you towards to remove the panel.



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Fig. 10: Take the ionising pipe.



Handle the ionising pipe carefully as it is fragile.



Fig. 11: Gently tighten the ionising pipe by gripping it at the base (green part), positioning it in its seat above the fan. If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.





ATTENTION: do not overtighten the screw after reaching its end stop.



Check that the earthing spring is in contact with the outer mesh once the ionising tubes have been screwed back into place. Otherwise contact the manufacturer.

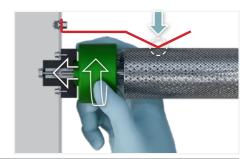


Fig. 12: Put the cover panel back in place. Screw the knobs back on.





Fig. 13: Check that the magnetothermic switches for disconnection of the fan power supply (Q1) and for disconnection of the auxiliary power supply (Q2) are in the ON position.



Fig. 14: Close the top panel.
The device is ready for use (see paragraph 6.6 "USING THE DEVICE").



6.3 OPERATING SITE CHARACTERISTICS



The environment in which the device is placed must have the following characteristics:

- air temperature between 0°C and 40°C;
- relative air humidity below 80%.



Do not place the device outside.



Do not place the device in environments where there are flammable gases, acidic, aggressive and corrosive substances that could damage it.



The device must not be installed in an explosive environment due to the presence of electrical and electronic equipment not specially designed.





Ensure **free spaces** around the device for the purposes of correct ventilation.



Fig. 15: The device JONIX mate plus can be easily moved in various environments, as it is equipped with 4 360° castor wheels. It can be locked and secured in its operating position thanks to the brakes that front wheels are equipped with.





- Do not move the device by pulling the power cord.
- · Turn off and unplug the device before moving it.
- Do not operate the device if there are no wheels.

6.3.1 Position of the operator

During operation of the unit, the presence of the operator in the vicinity of the device is not required.

For maintenance, the operator must access the maintenance access door as shown in the figure.

Fig. 16: Position of the operator for maintenance operations.





6.4 ELECTRICAL CONNECTIONS



ATTENTION! BEFORE STARTING ANY OPERATION, MAKE SURE THAT THE GENERAL POWER SUPPLY LINE IS DISCONNECTED AND THAT THE DEVICE CANNOT BE ACCIDENTALLY POWERED!

- The electrical connections must be carried out following the instructions provided in this
 manual.
- The use of adapters, multiple sockets and/or extensions is not recommended.
- Make sure that voltage and frequency of the electric line correspond to those provided on the name plate.



ATTENTION!

Using a power supply that does not meet the requirements of the device may result in damage to the device or some of its parts.

6.5 ELECTRIC POWER SUPPLY

The JONIX mate plus device is ready for connection to the civil power supply network, $230V/1 \sim /50Hz$. The device is equipped with a cable with a Schuko plug.



Before making any connections, ALWAYS make sure the mains voltage complies with what is shown on the plate.



ATTENTION!

It is recommended to check that the energy delivered is stable. Otherwise a voltage stabilizer must be installed upstream.

6.6 USING THE DEVICE

The JONIX mate plus device has been designed to work in a user-friendly and immediate way, simply by connecting it to the power supply line with the cable provided.

Fig. 17: Connect the device to the mains.





Fig. 18: In order to turn on the device act on the selector turning it to **I**.





The control and the setting of functions takes place using the Display (see paragraph 6.8 "User interface and menu navigation").



WARNING!

it will take some minutes for the display to load the software correctly. When the device is turned on the display might appear to be turned off.

6.7 DEFAULT SETTINGS

The device is set with the following default parameters:

Air flow rate (m³/h)	No. of ionising modules on
2000	4

6.7.1 First start checks

At first start-up, the device should be subjected to at least the following checks:

- check the integrity and stability of the JONIX mate plus as a whole;
- check that all panels and covers are closed and securely fastened;
- check that the mains voltage is correct in relation to what is indicated on the nameplate of the device:
- check that there are no alarm signals on the display;
- check that the air flow is regular;
- check that you can hear the slight sizzle of the ionizing tube.



Repeat the checks carried out at the first start-up even after each extended shutdown period and after maintenance.



6.8 USER INTERFACE AND MENU NAVIGATION

JONIX mate plus device is provided with a touch screen, allowing the user to control device status and to modify its operation as needed.

6.8.1 Main screen

It allows to check quickly the device status and to modify its operation mode. The various icons create a shortcut to other screens where the user can check the status of every single component in a more detailed way and its own personalization as needed.



In the main screen are reported this information:

- a) lonizers: allows access to the ionizers menu.
- b) Filters: allows access to the filters menu.
- c) Fan: allows access to the fan menu.
- d) Settings.
- e) **On/Off:** it allows to change the operating status of the device.
- f) Time: indicates the time set.
- g) Lock screen button: it is possible to lock the screen of the device. With the screen locked, it is not possible to perform any actions without first entering the password.

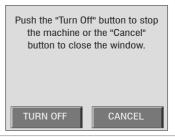


6.8.2 Switching the device on/off

On the main screen, the lower left symbol marked with (e) is used to intuitively identify the status of the device as indicated in the table.

d	DESCRIPTION OF THE GRAPHIC SYMBOL
	The device is switched ON.
	The device is switched ON according to the setting of the time slots. The device will turn off when requested by setting the time slots.
	The device is switched OFF.
	The device is switched OFF according to the setting of the time slots. The device will restart when requested by setting the time slots.
	The device is switched OFF, because it has been disabled by remote control (external contact).
() P	The device is switched OFF because the front panel is open; disconnect the power supply before maintenance or close the panel.

If the device is , pressing will result in confirmation being prompted with this message:



If the device is pressing will result in confirmation being prompted with this message:

Warning! Time slots mode activated.

Access to the "Time Slots" menu for settings changing. Push the "Turn Off" button to stop the machine or the "Cancel" button to close the window.

TURN OFF

CANCEL

mate plus



If the device is pressing will result in confirmation being prompted with this message:

Push the "Turn On" button to start the machine or the "Cancel" button to close the window.

TURN ON CANCEL

If the device is pressing will result in this message being displayed:

Warning! The machine is not operating because: Time slots mode activated.

Access to the "Time Slots" menu for settings changing. Press "Cancel" button to close the window.

If the device is pressing will result in this message being displayed:



To reactivate the device, activate it from the remote control.

Warning! The machine is not operating because: Turned Off from a remote control system.

Push the "Cancel" button to close the window.

CANCEL

If the device is pressing will result in this message being displayed:



To reactivate the device, close the front panel for maintenance.

Warning! The machine is not operating because: Turned Off from door switch.

Push the "Cancel" button to close the window.



6.8.3 Screen lock and settings

On the main screen, the upper left symbol marked with f is used to intuitively identify the status of the device as indicated in the table.

By pressing on the device requests confirmation with this message:



NOTE: Make sure the password is known before locking the device!



By confirming on "BLOCK", the symbol in the top left becomes \bigcap .

By pressing on the device asks for the password, press *** and enter the password using the numeric keypad.

Confirm with "Enter", then press 💟 .







If the password is incorrect, the corresponding message appears. Repeat the operation, entering the correct password.





6.8.4 User login / user logout

To make the device settings, it is necessary to log in to the USER, that is, type in the password to be able to use some or all of the functions.

The USER LOGIN is always required to:

- lock / unlock the screen (paragraph 6.8.3 Screen lock and settings);
- access the date and time menu (paragraph 6.8.9.1 Date and time);
- access the time slots menu (paragraph 6.8.9.5 Accessing the time slots);
- access to the maintenance recording menu (paragraph 6.8.9.6 Recording of maintenance).

If in the "protection" menu (paragraph 6.8.9.4 Protection) the option "always request password" is selected; in addition to the previous actions, the USER LOGIN is also required for:

- switching the device on / off (paragraph 6.8.2 Switching the device on / off);
- modification of the air flow (paragraph 6.8.7 Fan screen);
- filter sanitation cycle activation (paragraph 6.8.6 Filter ionising module screen);
- filter sanitation cycle time modification (paragraph 6.8.6 Filter ionising module screen);
- activation of air ionizers (paragraph 6.8.5 Air ionizing modules screen).

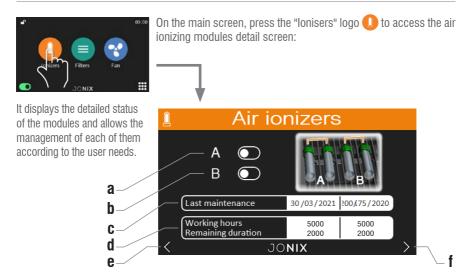
From when the password is entered, the USER LOGIN lasts 10 minutes. Once this time has elapsed, the device will ask for the password again to proceed with the settings or will automatically perform the USER LOGOUT.

To perform the USER LOGOUT at any time, press the key \rightarrow that appears in the bottom right of the settings screen.





6.8.5 Air ionizing modules screen



- a) On/Off button "A": switches the corresponding ionizing modules on / off.
 Attention: when the time slots are activated, the buttons are disabled. To make them usable again, disable time slots.
- b) On/Off button "B": switches the corresponding ionizing modules on / off.

 Attention: when the time slots are activated, the buttons are disabled. To make them usable again, disable time slots.
- c) Last maintenance: date on which the last cleaning or replacement operation cleaning or replacement of the corresponding ionizing modules was recorded.
- d) **Working hours:** total hours of ionising pipe activity since the last recorded maintenance gods corresponding ionizing modules.

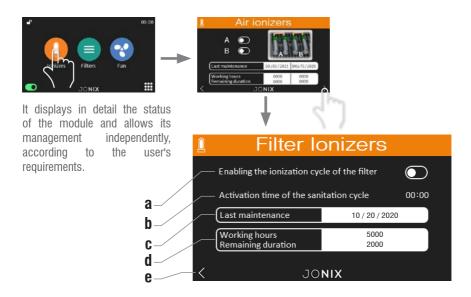
Remaining duration (hours): remaining hours to replace the ionising pipe.

- e) < : to return to the main screen.
- f) > : to go to the "filter ionizing module" screen".



6.8.6 Filter ionising module screen

On the main screen, press the "lonisers" logo 1 to access the ionizing modules screen air. Press the arrow (bottom right) to access the screen with the detail of the filter ionizing module:



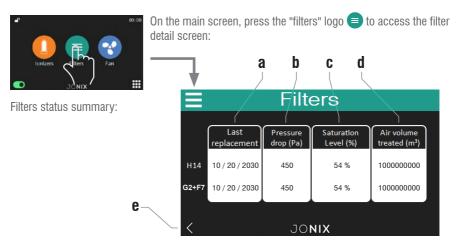
- a) Enabling of filter sanitisation cycle: it switches the ionising filter module on/off.
 Attention: when the time slots are activated, the buttons are disabled. To make them usable again, disable time slots.
- b) Sanitation cycle activation time:
 the factory setting is 22:00, press the time to open the dialogue box and change the setting. To confirm press the green key.



- c) Last maintenance: date on which the last cleaning or replacement operation was recorded.
- d) **Hours of operation:** total hours of ionising pipe activity since the last recorded maintenance. **Remaining duration (hours):** remaining hours to replace the ionising pipe.
- e) < : to return to the previous screen.



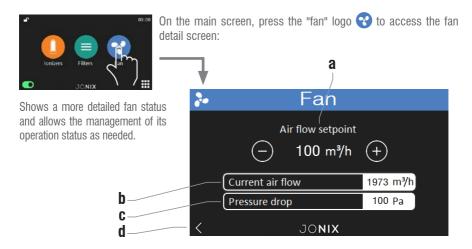
6.8.7 Filters screen



- a) Last replacement: shows the last time that the corresponding filter was replaced.
- b) **Pressure drop:** shows the pressure drop measured on the corresponding filter by the sensors.
- c) Saturation Level (%): represents the ratio between the minimum and maximum pressure drop of the corresponding filter. Once the 100% is reached, the filter replacement becomes necessary. ATTENTION: this number could not be equal to zero even when the filter is new.
- d) Air volume treated (m³): total air volume filtered from the last filter replacement.
- e) < : to return to the main screen.



6.8.8 Fan screen



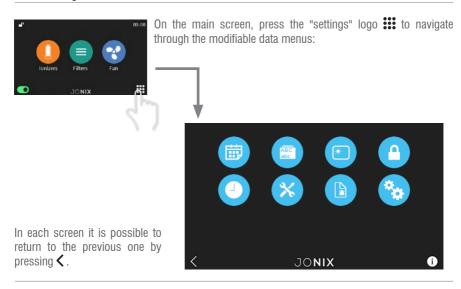
- a) Air flow rate set: through the buttons "-" and "+" the flow rate can be set with an increasing / decreasing step of 100 m³/h. Attention: when the time slots are activated, the "-" e "+"buttons are not displayed. To change the airflow setting, disable time slots.
- b) Current air flow: it is the real time measurement of the air flow of the fan.
- c) **Pressure drop:** it is the real time measurement of the pressure drop on the fan.
- d) < : to return to the main screen.

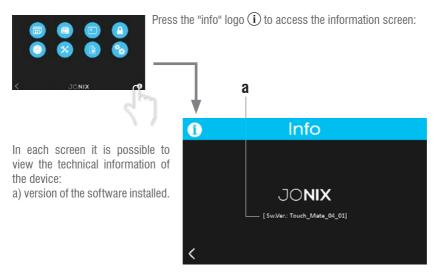
Warning: if the time slots are active, they CANNOT be changed and the message appears. To make it usable again, disable the time slots.





6.8.9 Settings screen



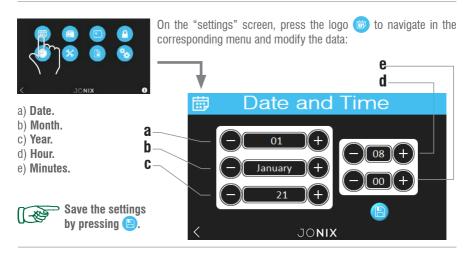




If it is necessary to update the software version, contact an authorised assistance centre.



6.8.9.1 Date and time



6.8.9.2 Language



The white icon shows which language is used in that moment. Press another key to change it.

IT = Italiano

 $\mathsf{EN} = \mathsf{English}$

FR = Français

DE = Deutsch



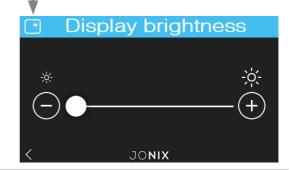


6.8.9.3 Display brightness



Press the "+" and "-" keys to change the brightness of the display.

On the "settings" screen, press the logo (to navigate in the corresponding menu:



6.8.9.4 Protection



On the "settings" screen, press the logo (a) to navigate in the corresponding menu and manage the authorisations and the password of the device:

a) User Password:
to log in, touch the
symbol "000", insert
the password on the
keyboard and push
the Enter button to
confirm or the Esc
Button to cancel the
operation.



Numerical keypad to enter the password.

Confirm with "Enter", then press .





If the password is incorrect, the corresponding message appears. Repeat the operation, entering the correct password.



IMPORTANT WARNING

The password of the device JONIX mate plus is: 100



It is possible to modify the password holding the button **2**.

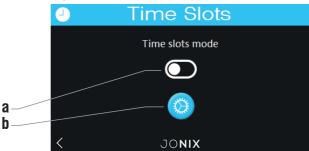


- c) Change confirmation is required: it only prompts for confirmations of operations without the need for USER LOGIN (paragraph 6.8.4 User login / user logout).
- d) Password is always required: USER LOGIN required to perform all actions that change the status of the device (paragraph 6.8.4 User login / user logout).

6.8.9.5 Accessing the time slots



On the "settings" screen, press the logo to navigate in the corresponding menu and to set the time autonomous operation of the device slots for (max 4 time slots for each day of the week).

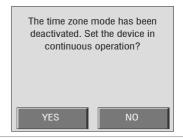


- a) Enable / disable time slots mode.
- b) Setting the time slots mode: allows to access the screen with time slots setting.

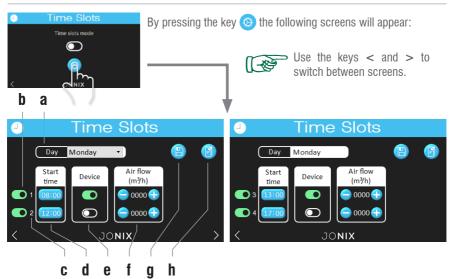


When the time zone mode is deactivated, the device requests permission to set continuous operation.

Press YES to confirm and NO to turn off the device



6.8.9.5.1 Time slots



- a) Day: day of the week selected.
- b) Enable / disable time slots mode.
- c) **Time slot number:** for each day of the week it is possible to set up to 4 time slots.
- d) Start time: start time of the time slot.
- e) **Device:** enable / disable of the device.
- f) Air flow (m³/h): set up of the fan airflow.



The setting of the start time of the next slot (in the same day or in another) implies the end of the previous time slot.

g) **Save button:** it appears when any change is made to one of the time slots. Press the key (2) to store the changes. When the saving operation is successfully finished the button disappears.



h) Copy button: allow to copy the time slots of a day in one or more different days. Touching the button, a dialog box will appear where must be chosen the day from which the slots will be copied and the day in which they will be copied. Press the green button to confirm or the red button to cancel. To copy the slots in more days this action must be repeated.





NOTE: it is possible to copy the slots in one single day for time. To copy the slots in more days this action must be repeated.



NOTE: it is always necessary to save before changing the day or leave the menu. If not, the modification will be lost.



If only one time slot is set or enabled, the device will operate with the parameters set in that slot until it will be disabled or will be added another slot.



When time slots are enabled it is not possible change the operating status of the fan in their corresponding screens (6.8.6 "Fan screen").

6.8.9.6 Recording of maintenance



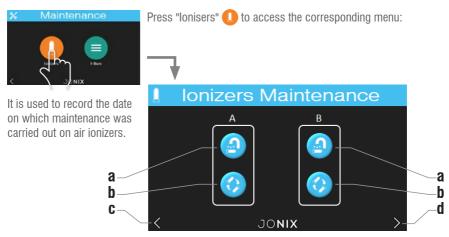
On the "settings" screen, press the logo \bigotimes to navigate in the corresponding menu and to record maintenance.



- a) Access to the menu "loniser Maintenance".
- b) Access to the menu "Filter Maintenance".



6.8.9.6.1 Air ionizers maintenance recording



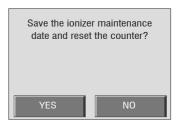
- a) Cleaning: records the cleaning operation.
- b) Replacement: records the replacement operation.
- c) < : to return to the maintenance screen.
- d) > : to go to the "Filter Ionizer Maintenance Registration" screen.

Pressing the key a message of confirmation of the record by the system of the maintenance operation that was performed will appear.

Press YES to confirm or NO to cancel.

Pressing the key a message of confirmation of the record by the system of the maintenance operation that was performed will appear.

Press YES to confirm or NO to cancel.



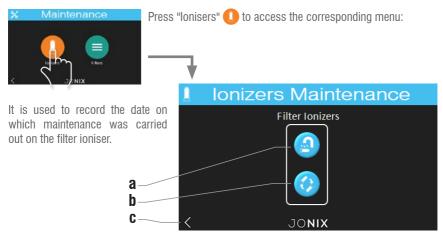




NOTES: This operation only involves RECORDING of the maintenance intervention. The maintenance procedures are explained in the chapter 7 "Maintenance" of this manual.



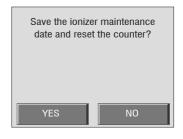
6.8.9.6.2 Filter ioniser maintenance recording



- a) Cleaning: records the cleaning operation.
- b) Replacement: records the replacement operation.
- c) < : to return to the "air ionizer maintenance" registration screen.

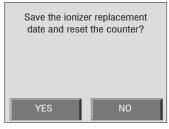
Pressing the key a message of confirmation of the record by the system of the maintenance operation that was performed will appear.

Press YES to confirm or NO to cancel.



Pressing the key (**) a message of confirmation of the record by the system of the maintenance operation that was performed will appear.

Press YES to confirm or NO to cancel.

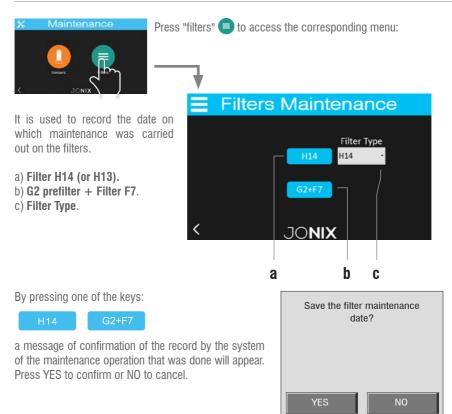




NOTES: This operation only involves RECORDING of the maintenance intervention. The maintenance procedures are explained in the chapter 7 "Maintenance" of this manual.



6.8.9.6.3 Filter maintenance recording



Pressing H14 it is possible to change the type of filter from H14 to H13 or vice-versa.



Use the key < to return to the maintenance menu.



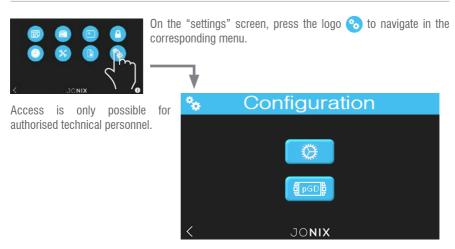
NOTES: This operation only involves RECORDING of the maintenance intervention. The maintenance procedures are explained in the chapter 7 "Maintenance" of this manual



6.8.9.7 Alarms History



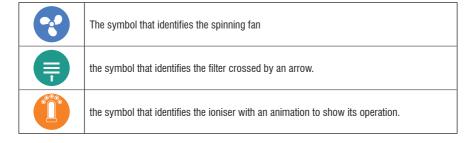
6.8.9.8 Configuration





6.8.10 Operation display viewing

During normal and correct operation of the device, it is possible to view on the display:



6.8.10.1 Filter ioniser function

The filter ionisation cycle works once a day. Enable it and set the start time as described in paragraph 6.8.6 "Filter ionising module screen". At the set time, the ionisation cycle of the filter starts:

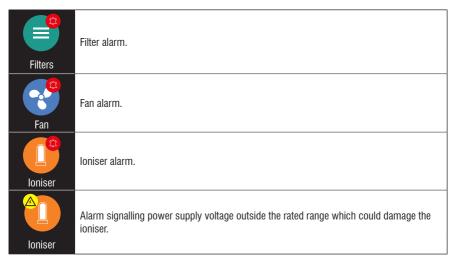
- 1) the fan stops for 29 minutes (the symbol remains present but static) and the ioniser () starts working;
- 2) the fan runs for 1 minute at reduced speed (the symbol turns) and the ioniser () remains in operation;
- 3) the fan stops for 29 minutes (the symbol remains present but static) and the ioniser () remains in operation. The ionisation cycle of the filter is repeated for 300 minutes (5 hours).
- The ionisation cycle is performed both with the device ON and with the device OFF.

 To disable the ionisation cycle, follow the instructions in paragraph 6.8.6 "Filter ionising module screen".



6.8.11 Alarm status notifications

On the main screen, notifications appear on the icon of the component that generates an alarm to request intervention by the user or a maintenance technician authorised by JONIX S.p.A.:



Clicking on the alarm notification
will offer direct access to the active alarms screen to view the details of the report:

If the power supply voltage is outside the rated range, the ionisers are deactivated and the symbol appears. When the supply voltage returns to the expected range, the ioniser is automatically reactivated and the symbol disappears from the display.



To solve the problem displayed read the chap. 7 "MAINTENANCE" of this manual.

Touch the RESET button to delete the notification when the problem has been solved.

If the alarm was not resolved correctly, it will reappear on the display.





The following table indicates how to proceed for resolution of the alarms based on the code and the description:

CODE	ALARM DESCRIPTION	ACTION
AL02	DP sensor alarm filter F7.	Contact an authorised JONIX S.p.A. maintenance technician.
AL03	DP sensor alarm HEPA filter	Contact an authorised JONIX S.p.A. maintenance technician.
AL04	DP sensor alarm fan.	Contact an authorised JONIX S.p.A. maintenance technician.
AL06	Dirty filter alarm F7.	See par. 7.2.1 "replacing filters".
AL07	HEPA dirty filter alarm.	See par. 7.2.1 "replacing filters".
AL08	lonizer module "B" alarm.	Contact an authorised JONIX S.p.A. maintenance technician.
AL09	lonizer module "A" alarm.	Contact an authorised JONIX S.p.A. maintenance technician.
AL10	lonizer module maintenance "B".	See par. 7.2.3.1 "cleaning of ionizing tubes for sanitization of the air".
AL11	lonizer module maintenance "A".	See par. 7.2.3.1 "cleaning of ionizing tubes for sanitization of the air".
AL12	Replacement of ionizer module "B".	See par. 7.2.4.1 "replacement of the ionizing tubes for the air sanitation".
AL13	Replacement of ionizer module "A".	See par. 7.2.4.1 "replacement of the ionizing tubes for the air sanitation".
AL14	Fan circuit breaker alarm	Contact an authorised JONIX S.p.A. maintenance technician.
AL15	Filter ioniser module maintenance.	See para. 7.2.3.2 "cleaning the ionising pipe for the sanitization of internal components".
AL16	Filter ioniser module replacement.	See para. 7.2.4.2 "replacing the ionising pipe for the sanitization of internal components".



Contact JONIX S.p.A. or a Distributor always quoting the product code and serial number shown on the device plate:

- if a malfunction other than that described in this use and maintenance manual
- if the problem cannot be resolved correctly and the alarm status persists.



7 - MAINTENANCE

7.1 WARNINGS



BEFORE CARRYING OUT ANY MAINTENANCE OPERATION MAKE SURE THAT THE DEVICE IS NOT AND CANNOT ACCIDENTALLY BE POWERED ELECTRICALLY.
YOU MUST THEREFORE UNPLUG THE DEVICE BEFORE CARRYING OUT ANY MAINTENANCE.

- It is the duty of the user to perform all the maintenance operations on the device listed below.
- In the event of a malfunction not indicated in this manual, disconnect the device from the power supply and consult your dealer and / or JONIX S.p.A.
- Only specialist personnel, previously trained and qualified, can carry out maintenance operations other than those specified in this manual.



For all maintenance operations it is good practice to use work gloves to protect your hands.

The frequency of the operations to be performed to ensure proper maintenance of the device JONIX mate plus depends mainly on the quality of the treated air. Air can be especially harmful for device when it contains polluting or aggressive substances such as:

- Industrial flue gas
- Sale
- Chemical smoke
- Heavy powders



By coming into contact with the inside or outer surfaces of the device by means of the air flow or by direct exposure, these substances can lead to a structural and functional failure of the device and of its performance as time passes and without proper, systematic maintenance.

7.2 ROUTINE MAINTENANCE

The JONIX mate plus device requires a small amount of maintenance which consists of checking and replacing the filters or the periodic and regular replacement of the non-thermal plasma generator (ionising pipe).

The JONIX mate plus device, signals the need to perform maintenance on the non-thermal plasma generators, through an alarm viewed on the display (paragraph 6.8.11 "Alarm status notifications") every 7000 hours of operation.

Filters do not need to be cleaned periodically but will need to be changed when they reach saturation. The device signals the need for maintenance by means of an alarm shown on the display (paragraph 6.8.11 "Alarm status notifications").



7.2.1 Replacing filters

The device JONIX mate plus indicates the need to replace the filters with the icon on the main screen.



Replace the filters every time it is notified on the display.



ATTENTION!

When servicing the filters, pay particular attention to your fingers to avoid the risk of pinching.

Fig. 19: Switch the device off by turning the switch.

Remove the plug connected to the mains.



Fig. 20: Use a screwdriver to open the top rear panel.



Fig. 21: Unscrew the 2 knobs which keep the rear bottom panel for maintenance access.

Lift and then pull you towards to remove the panel.





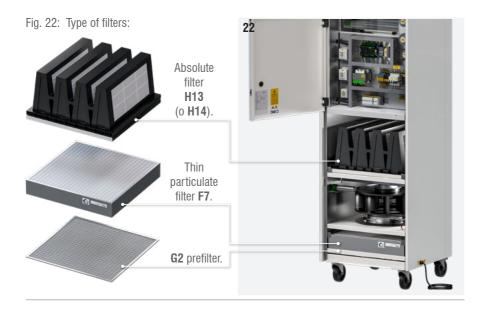


Fig. 23: Pull the filter locking tabs out and extract the dirty filters.



Fig. 24: Put the new / clean filters back in place. Push the filter locking tabs inwards until they click..



Fig. 25: Put the cover panel back in place. Screw the knobs back on.



Fig. 26: Close the top panel.





Fig. 27: Connect the power plug to the mains and switch on the device.





Check the operation of the device: the air flow generated by the fan will be perceived.

Record the maintenance operation performed using the display as described in paragraph 6.8.9.6 "Recording of maintenance". Reset the alarm launched by the device in the alarm screen:





Dirty filters must be disposed of in compliance with the instructions in chapter 9 "DISPOSAL" and in compliance with the regulations in force in the country of installation.

7.2.2 External cleaning of the device

Fig. 28: Clean the outside of the device with a damp cloth.

If the casing is in stainless steel, use specific products for this material.



Do not use liquid cleaners, sprays, soap or other products directly on the device.





Pay particular attention to the air passage grilles: check that they are clean to ensure the passage of air.



7.2.3 Cleaning of ionizing tubes

The device JONIX mate plus indicates the need for maintenance on the ionising pipe with the icon 19 on the main screen.

7.2.3.1 Cleaning of ionizing tubes for air sanitization



The JONIX mate plus device signals the need to clean the ionising pipes per for air sanitation every 7000 hours of operation.

Clean the ionising tube every time it is shown on the display.

Fig. 29: Switch the device off by turning the switch.

Remove the plug connected to the mains.



Fig. 30: Use a screwdriver to open the top rear panel.



Fig. 31: Unscrew the knobs and remove the internal plexiglass panel to access the ionizing tubes.





Fig. 32: Gently unscrew the ionising pipe, gripping it at the base (green part). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.



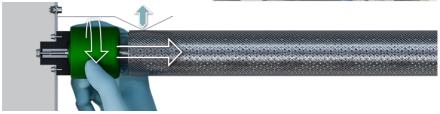


Fig. 33: Pull off the outer mesh from the tube. If this is difficult to do, turn the mesh around the glass while pulling to remove it.



Check that the tube is in good conditions: there must not be any cracks or other damage; otherwise it must be replaced.



Fig. 34: Clean the glass using a damp cloth.



Do not use liquid cleaners, sprays, soap or other products.





The presence of a whitish layer on the perforated metal sheet inside the glass indicates the need to replace the pipe. The tube must usually be replaced within 18 months of use.

mate plus JONIX

Fig. 35: Wash the mesh under running hot water and dry it thoroughly with a non-fraying cloth.



Do not put back the mesh on the ionising tube if it is even partially wet.



Fig. 36: Put the outer metal mesh back on the glass tube so that it fully overlaps the internal plate.



In any case ensure a minimum distance of at least 3 mm from the base of the tube.

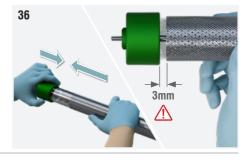


Fig. 37: Gently screw the tubes ionizing by grasping them at the base (part green). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube



ATTENTION: do not overtighten the screw after reaching its end stop.



Check that the earthing spring is in contact with the outer mesh once the ionising tubes have been screwed back into place. Otherwise contact the manufacturer.



 Repeat the same procedure also for the other tubes ionizing.



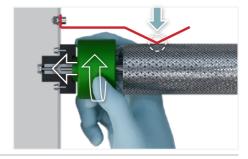




Fig. 38: Reposition the plexiglass panel. Screw the knobs back on.

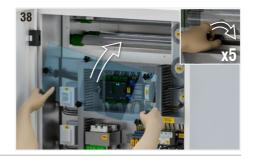


Fig. 39: Check that the magnetothermic switches for disconnection of the fan power supply (Q1) and for disconnection of the auxiliary power supply (Q2) are in the ON position.



Fig. 40: Close the top panel.



Fig. 41: Connect the power plug to the mains and switch on the device.







Check the operation of the device, a slight crackling must be heard coming from the ionising pipes and the air flow generated by the fan will be perceived.

Record the maintenance operation performed using the display as described in paragraph 6.8.9.6 "Recording of maintenance". Reset the alarm launched by the device in the alarm screen:





Should a malfunction persist, unplug the device from the mains and contact qualified staff. Failure to clean the ionising pipe when indicated by the device will result in a reduction in system performance.

7.2.3.2 Ionising pipe cleaning for the sanitization of internal components



The JONIX mate plus device signals the need to clean the ionising pipe above the fan every 7000 hours of operation.

Clean the ionising tube every time it is shown on the display.

Fig. 42: Switch the device off by turning the switch.

Remove the plug connected to the mains.



Fig. 43: Use a screwdriver to open the top rear panel.





Fig. 41: Unscrew the 2 knobs which keep the rear bottom panel for maintenance access.

Lift and then pull you towards to remove the panel.



Fig. 42: Gently unscrew the ionising pipe, gripping it at the base (green part). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.



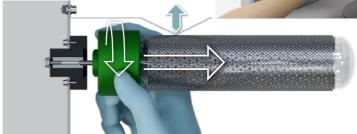


Fig. 43: Pull off the outer mesh from the tube. If this is difficult to do, turn the mesh around the glass while pulling to remove it.



Check that the tube is in good conditions: there must not be any cracks or other damage; otherwise it must be replaced.



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Fig. 44: Clean the glass using a damp cloth.



Do not use liquid cleaners, sprays, soap or other products.





The presence of a whitish layer on the perforated metal sheet inside the glass indicates the need to replace the pipe. The tube must usually be replaced within 18 months of use.

Fig. 45: Wash the mesh under running hot water and dry it thoroughly with a non-fraying cloth.



Do not put back the mesh on the ionising tube if it is even partially wet.



Fig. 46: Put the outer metal mesh back on the glass tube so that it fully overlaps the internal plate.



In any case ensure a minimum distance of at least 3 mm from the base of the tube

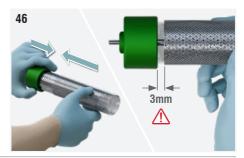




Fig. 47: Gently screw the ionising tube holding on to the base (green part). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.



ATTENTION: do not overtighten the screw after reaching its end stop.



Check that the earthing spring is in contact with the outer mesh once the ionising tubes have been screwed back into place. Otherwise contact the manufacturer.



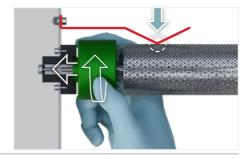


Fig. 48: Put the cover panel back in place. Screw the knobs back on.



Fig. 49: Check that the magnetothermic switches for disconnection of the fan power supply (Q1) and for disconnection of the auxiliary power supply (Q2) are in the ON position.



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Fig. 50: Close the top panel.



Fig. 51: Connect the power plug to the mains and switch on the device.



Check the operation of the device, a slight crackling must be heard coming from the ionising pipe and the air flow generated by the fan will be perceived.

Record the maintenance operation performed using the display as described in paragraph 6.8.9.6 "Recording of maintenance". Reset the alarm launched by the device in the alarm screen:





Should a malfunction persist, unplug the device from the mains and contact qualified staff

Failure to clean the ionising pipe when indicated by the device will result in a reduction in system performance.



7.2.4 Replacing the ionising pipes

The ionising pipe is the component of the device which will eventually deteriorate over time and will therefore require replacement. When signs of wear appear, it is necessary to replace the component. They are evident with the appearance of oxide in the condenser internal mesh that will make it whitish, and that will render the glass opaque.

7.2.4.1 Replacing the ionising tubes for air sanitization



The JONIX mate plus signal the need of replacement of the ionising tubes for air sanitization every 14000 hours of operation.

Replace the ionising tubes every time it is shown on the display.

Fig. 52: Switch the device off by turning the switch.

Remove the plug connected to the mains.



Fig. 53: Use a screwdriver to open the top rear panel.



Fig. 54: Unscrew the knobs and remove the internal plexiglass panel to access the ionizing tubes.



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Fig. 55: Gently unscrew the ionising pipe, gripping it at the base (green part). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.



JONIX



Fig. 56: Gently screw in the **new ionising pipe**, holding on to the base (green part). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.





ATTENTION: do not overtighten the screw after reaching its end stop.



Check that the earthing spring is in contact with the outer mesh once the ionising tube have been screwed back into place. Otherwise contact the manufacturer.

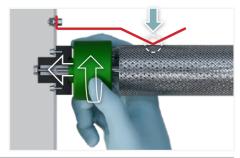


Fig. 57: Reposition the plexiglass panel. Screw the knobs back on.

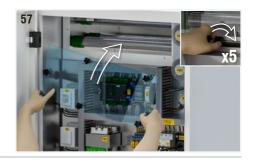


Fig. 58: Check that the magnetothermic switches for disconnection of the fan power supply (Q1) and for disconnection of the auxiliary power supply (Q2) are in the ON position.



Fig. 59: Close the top panel.



Fig. 60: Connect the power plug to the mains and switch on the device.







Check the operation of the device, a slight crackling must be heard coming from the ionising pipe and the air flow generated by the fan will be perceived.

Record the maintenance operation performed using the display as described in paragraph 6.8.9.6 "Recording of maintenance". Reset the alarm launched by the device in the alarm screen:





Should a malfunction persist, unplug the device from the mains and contact qualified staff

Failure to replace the ionising pipe when indicated by the device will result in a reduction in system performance.

7.2.4.2 Replacing the ionising tube for the sanitization of internal components



The JONIX mate plus signal the need of replacement of the ionising tube for the sanitization of internal components after 14000 hours of operation.

Replace the ionising tube every time it is shown on the display.

Fig. 61: Switch the device off by turning the switch.

Remove the plug connected to the mains.





Fig. 62: Use a screwdriver to open the top rear panel.



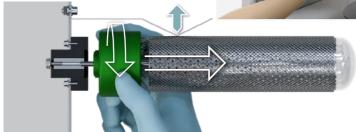
Fig. 63: Unscrew the 2 knobs which keep the rear bottom panel for maintenance access.

Lift and then pull you towards to remove the panel.



Fig. 64: Gently unscrew the ionising pipe, gripping it at the base (green part). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.





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Fig. 65: Gently screw in the **new ionising pipe**, holding on to the base (green part). If the operation is difficult to perform, pull slightly the earthing spring so that it is not in contact with the surface of the tube.



ATTENTION: do not overtighten the screw after reaching its end stop.



Check that the earthing spring is in contact with the outer mesh once the ionising tubes have been screwed back into place. Otherwise contact the manufacturer.



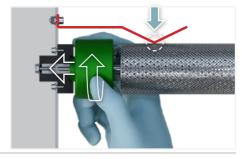


Fig. 66: Put the cover panel back in place. Screw the knobs back on.



Fig. 67: Check that the magnetothermic switches for disconnection of the fan power supply (Q1) and for disconnection of the auxiliary power supply (Q2) are in the ON position.





Fig. 68: Close the top panel.



Fig. 69: Connect the power plug to the mains and switch on the device.





Check the operation of the device, a slight crackling must be heard coming from the ionising pipe and the air flow generated by the fan will be perceived.

Record the maintenance operation performed using the display as described in paragraph 6.8.9.6 "Recording of maintenance". Reset the alarm launched by the device in the alarm screen:





Should a malfunction persist, unplug the device from the mains and contact qualified staff.

Failure to replace the ionising pipe when indicated by the device will result in a reduction in system performance.



7.3 SPECIAL MAINTENANCE



Any maintenance that does not fall within the operations described as routine maintenance must only be carried out by specialist personnel expressly authorised and trained by the Manufacturer.

8 - ACCESSORIES

8.1 AIR OUTLET FOR OVERPRESSURE ROOMS

The JONIX mate plus device is provided with an additional air outlet, which can be connected by a duct to an environment outside the room where the machine is installed.

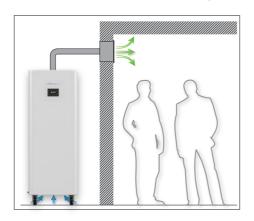
Fig. 70: By moving the grid, it is possible to set the fresh air percentage, up to a 7%, introduced on the total air flow.

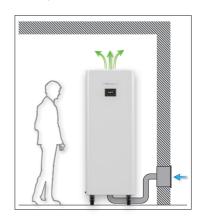
This allows the device to be used in rooms where overpressure must be generated.



8.1.1 Connection examples

Wall connection kits for suction and delivery are available on the price list.











9 - CHECKING OPERATION AND POSSIBLE FAULTS (DIAGNOSTICS)

This section summarises the most common problems that may arise when using the unit. Before contacting customer service, perform the checks described in the paragraph on diagnostics and check that there are no alarm signals (paragraph 6.8.11 "Alarm status notifications").

9.1 DIAGNOSTICS

PROBLEM	POSSIBLE CAUSE	SOLUTION					
		Check that the device's red power switch is pushed up and lit.					
		Check that the electrical connection is correctly made.					
The display is off.	Lack of power to the device.	Check that the magnetothermic switches for fan power disconnection (Q1) and auxiliary power supply disconnection (Q2) are in the ON position.					
		Check the integrity of the power cord.					
		Check that power is present in the distribution mains.					
There is no crackling sound	The ionising pipe is faulty.	Contact a maintenance technician authorised by the manufacturer.					
from the ioniser.	Maintenance required on the ionising pipe.	Follow the instructions in section 7.2 "ROUTINE MAINTENANCE".					
The symbol	The filters are dirty and have not been replaced.	Follow the instructions in section 7.2 "ROUTINE MAINTENANCE".					
appears on the main screen of the display:	A condition is active that involves stopping of the fan.	See the instructions in paragraph 6.8 "USER INTERFACE AND NAVIGATION IN MENUS.					
	The device detects an alarm on the affected component.	Check the indications of paragraph 6.8.11 "Alarm status notifications".					
Fan DP alarm. The fan automatically goes to the maximum speed (approximately 3000mQ / h).	Speed regulation sensor fault.	Contact the assistance centre.					



9.2 GENERAL DIAGNOSTIC PROVISIONS



If a malfunction other than that described above occurs, contact the Manufacturer or a Distributor and always quote the part number and serial number on the plate of the device.

Fig. 71: Disconnect the power supply to the device and contact JONIX S.p.A. or a dealer for assistance also when:

- the power cord is damaged or deteriorated;
- the power plug is damaged or deteriorated;
- water or liquid has been spilled on the appliance.
- a malfunction persists even though all the procedures described in this use and maintenance manual have been carried out correctly.





10 - DISPOSAL

When the JONIX devices are no longer used they must be disposed of in compliance with the regulations in force in the country of installation. The devices consists of the following materials:

- · Stainless steel.
- Aluminium.
- Glass.
- Nvlon.
- Plastic.
- · Paper and Cardboard.
- Wood.
- Sintered expanded polystyrene.
- · Copper.



MANAGEMENT OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT

This product falls within the scope of Directive 2012/19/EU on the management of waste electrical and electronic equipment (WEEE). The appliance must not be disposed of with household waste as it consists of various materials that can be recycled at appropriate facilities. Inform yourself through your local authority as to the location of the ecological platforms for receiving the product for disposal and its subsequent proper recycling. The product is not potentially dangerous for human health and the environment, as it does not contain harmful substances as per Directive 2011/65/EU (RoHS), but if left in the environment it has a negative impact on the ecosystem. Read the instructions carefully before using the unit for the first time.

It is recommended that the product should not be used for any other purpose than that for which it was intended, as there is a risk of electric shock if used improperly.

DISPOSAL OF FILTERS

The filters are not washable and are not recyclable. For the replacement procedure, refer to paragraph 7.2.1 "REPLACING THE FILTERS". The filters must be disposed of in unsorted municipal waste or according to the requirements of the regulations of the country of installation.



EC DECLARATION OF CONFORMITY



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E' conforme alle disposizioni pertinenti delle prettive comunitarie Is in conformity with the relevant provisions of the community directives Erfüllt die einschlägigen Harmonisierungs the vorschriften der Union Est conforme à la législation d'hufmonisation de l'Union applicable. Es conforme con las priminates dispositiones de las directivas comunitarias.

2006/42/CE 2014/30/UE 2011/65/UE 2012/19/UE

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