

# Plasma Electron Spray Ionizer System

AIR PURIFIER SYSTEM

**PES SYSTEM** Plasma Electron Spray ionizer system



## Operational Manual

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# Product Features and Functions

## PES IONIZER SYSTEM

### PLASMA electron spray IONIZER system

The PLASMA electron spray IONIZER system:

An anion is an atom or group of atoms carrying a negative charge.

The charge results from the fact that there are more electrons than protons in the anion.

Anions can be formed in many ways.

(collision ionization, the Lenard effect on water, solar winds, tourmaline, elementary particles, radionuclides, a high electric potential or high voltage, plasma systems, electron spray systems, etc.)

#### Plasma technology

Plasma is based on a simple physical principle.

By supplying energy to them, the different states of matter can change

: from solid to liquid, and from liquid to gas.

If further energy is added to a gas, it becomes ionized and passes over into a plasma state.

A Plasma system uses the Plasma principle.

A Plasma system uses a pulse type of high voltage as energy, and divides H<sub>2</sub>O in the air into H<sup>+</sup> and OH<sup>-</sup>. (H<sub>2</sub>O → H<sup>+</sup> + OH<sup>-</sup>)



#### Electron spray technology

The composition of air is N<sub>2</sub> 78%, O<sub>2</sub> 21%, and small amounts of other gases make up the residual 1%. O<sub>2</sub> has the most powerful electron affinity in the composition of air.

An Electron-spray system emits an electron beam into the air from its negative pole.





The O<sub>2</sub> in the air combines with an electron, and then becomes O<sub>2</sub><sup>-</sup>. (O<sub>2</sub> + e → O<sub>2</sub><sup>-</sup>)



An Ionizer System is a complex type of Plasma and Electron-spray technology.

The following cautions are to ensure the knowledgeable and correct use of the product to prevent risk and loss to users in advance. To emphasize the different levels of risks and losses, cautions are classified with the terms "WARNING" and "CAUTION", etc.

You must follow the instructions for safety.

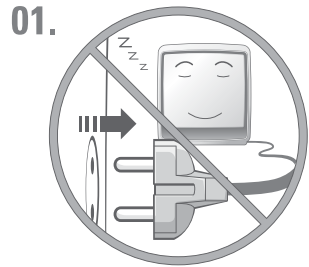
-  **CAUTION** Possibility of minor injuries.
-  **WARNING** Possibility of severe injuries or death.
-  **PROHIBITED** Prohibited usage.
-  **COMPULSORY** Compulsory instructions.

## Safety Cautions & Warnings / Use of product

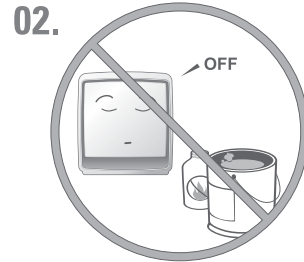
Please read 'Safety Cautions and Warning' Warnings' before usage.  Hi-voltage caution

### CAUTION

Possibility of minor injuries or product damage, or damage to its appearance.



Unplug the unit if not in use for a long period of time. (Failing to do so can result in an electrical shock or fire.)



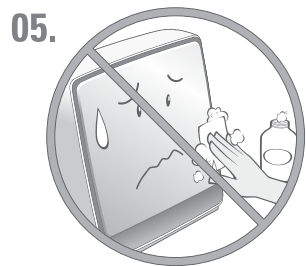
Do not operate the product if flammable chemicals or gas are around. (This can cause a fire.)



Do not use insecticides, or a flammable spray to clean the unit. (This can cause cracking, electrical shock, or product malfunction.)



Please keep the product in an open area, clear and away from other objects. (A cluttered area can cause product malfunction.)




Do not directly scatter water towards the product or use detergents, benzene, thinner, or alcohol to clean the unit. (This can cause an electrical shock, cracking, or product discoloration.)



Be careful not to hurt your hands, due to the pins are very sharp.

## Safety Cautions & Warnings / Use of product

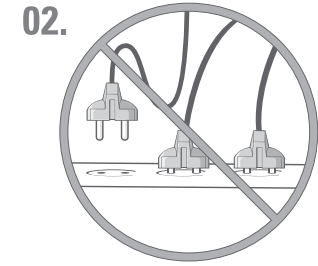
Please read 'Safety Cautions & Warnings' before usage.  Hi-voltage caution

### WARNING

Possibility of severe wounds or death.



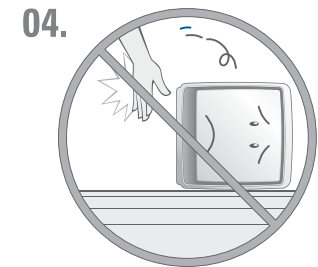
A flooded product should be taken to a service center.



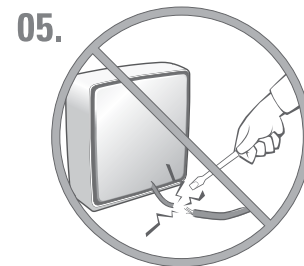
Do not use a multi-socket electrical source. (This can cause an electrical shock or fire.)



Unplug the unit if the product makes strange sounds, smokes, or produces a burning smell. The product should be taken to a service center.



Always keep the unit in an upright position, and do not strike or pull on the product by force. (This can cause damage, a malfunction, or a fire.)



If the electrical cord is broken, the manufacturer, its representative, or a qualified technician should exchange the cord to avoid the risk of damage.



Do not put your finger or a foreign substance into the product's duct. (This can cause a malfunction, or an electrical shock.)

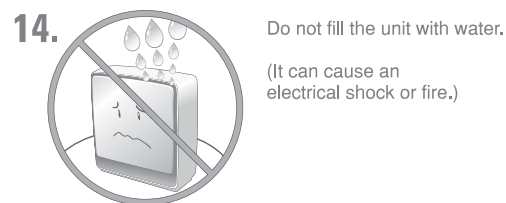
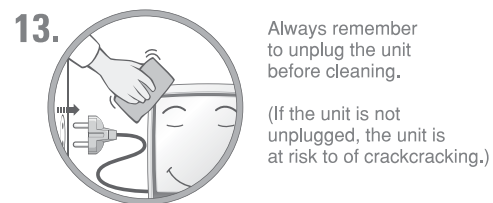
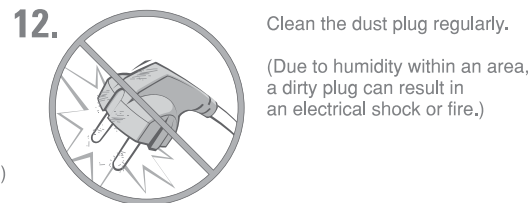
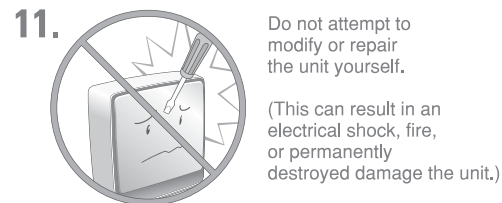
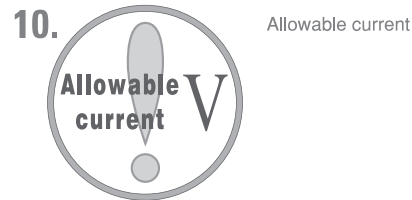
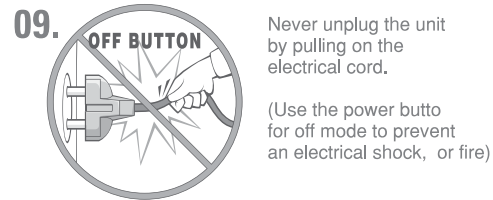
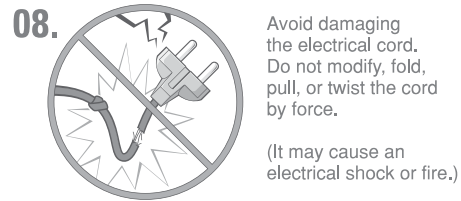
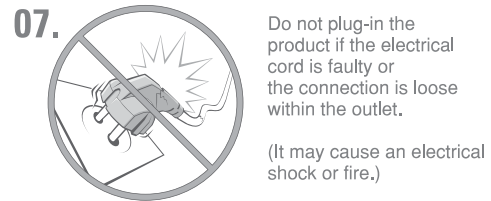
## Safety Cautions & Warnings / Use of product

Please read 'Safety Cautions & Warnings' before usage.

 Hi-voltage caution

### WARNING

Possibility of severe wounds or death.

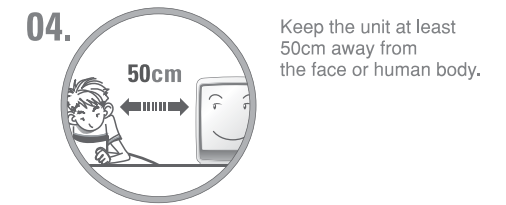
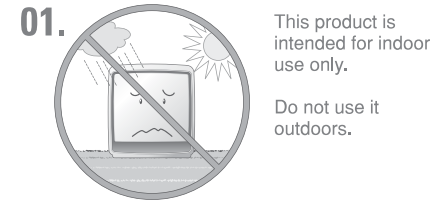


## Safety Cautions and Warnings / Installation

Please read 'Safety Cautions and Warnings' before use.

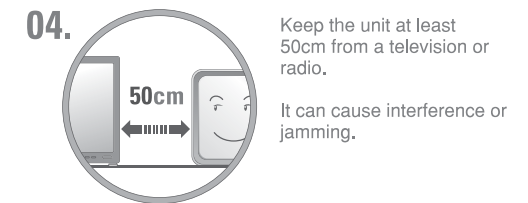
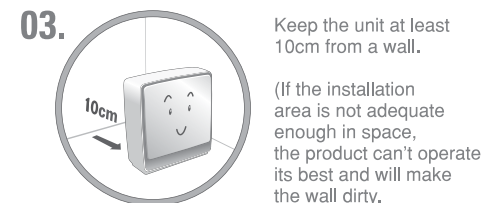
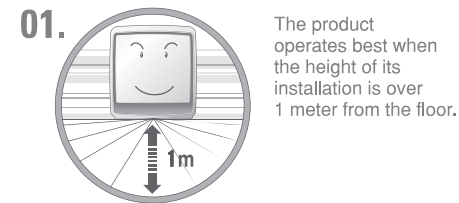
### WARNING

Possibility of severe wounds or death.



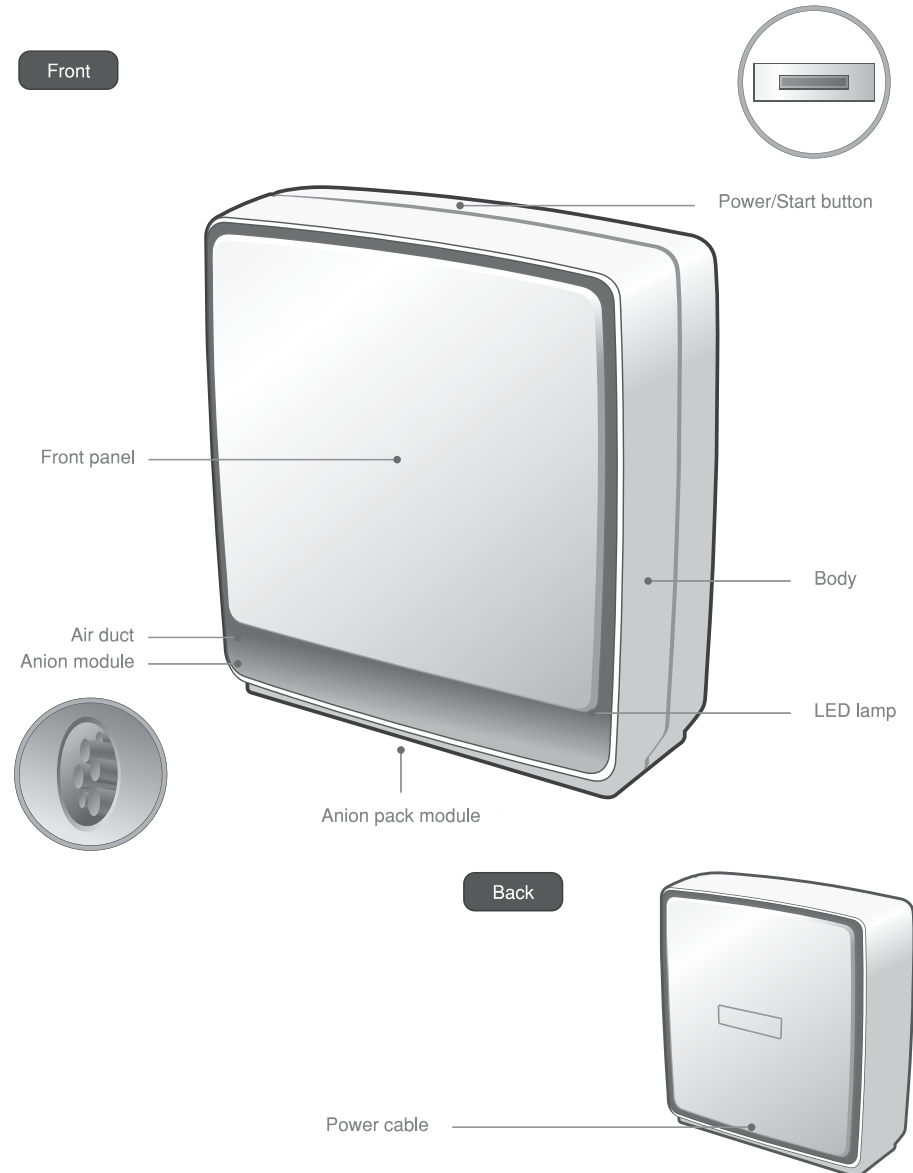
### CAUTION

Possibility of minor injuries or product damage, or damage to its appearance.



## Part Names / Items to be checked before use

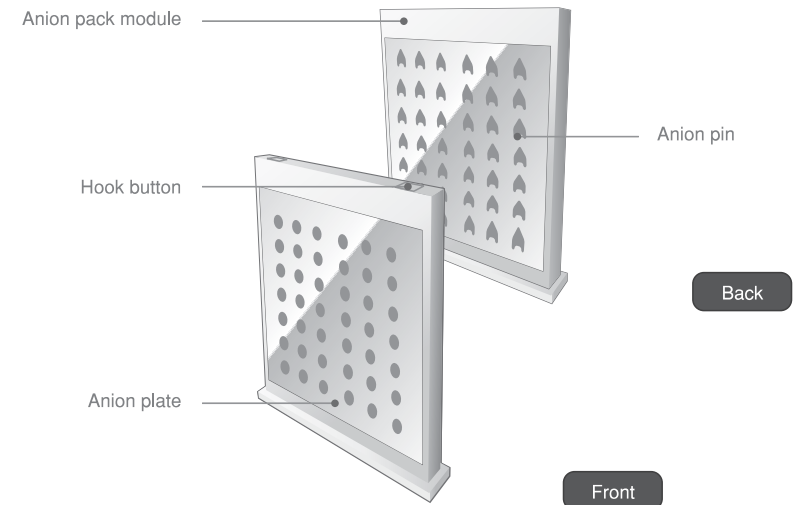
### Part Name



Please read 'Safety Cautions and Warnings' before use.

## Part Names / Items to be checked before use

### Part Name



### Precautions for Use and User Guide

1. All required materials have been previously installed in the unit. Please make sure that all the required materials are secure and are not loose within the unit. No further attention is required after unpacking the unit.
2. Once the unit is plugged in and in accordance with all safety guidelines, you can use product directly by touching the Power / Start sensor button to start the unit. (Attention: Make sure that the Anion pack module is connected to the Body of the unit correctly, if not, the product may not operate safely.)

### Installation

1. Make sure that the Anion pack module is connected to the Body of the unit correctly, and then install the product where you want to install it.
2. Keep the unit at least 10cm away from a wall.
3. After being plugged in, the LED lamp will automatically flicker 3 times. This is the initial start up configuration of the unit, and the unit is ready to start.

# How to use this product

## Instructions

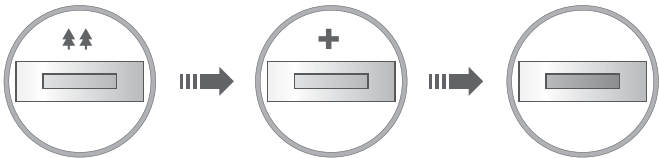
### Display Operation Instructions

Quickly touch the Power/Start button just one time to start the unit in the Purify Ion mode.

- During its operation, touch the Power / Start button again, and the unit will change its mode (Purify Ion mode / Anti-Virus mode / OFF mode) with every your touch.
- Mode order: Purify Ion Mode (Power ON) ~ Anti-virus Ion Mode ~ Power OFF mode

### LED light notification

- The LED light from the Power / Start button signals each of the various modes. (Green light / Blue light / Off)
- The product operates and cycles through the various modes with each touch.



### Mood Lamp ON/OFF

#### Mood lamp OFF

- Set the product in OFF mode.
- Press the Power / Start button without releasing it for 2~3 seconds. The Mood lamp will be OFF while the unit starts and operates in Purify Ion Mode.

#### Mood Lamp ON

- Set the product in OFF mode.
- Press the Power / Start button without releasing it for 2~3 seconds. The Mood Lamp will be ON while the unit starts and operates in Purify Ion Mode.



# How to use this product

## Instructions

### ↑↑ Purify Ion Mode

How to set the unit to "Purify Ion Mode".

- Power the unit ON to select the "Purify Ion mode" by touching the Power / Start button.
- Make sure that the LED light shows the "Green Light" from on the Power / Start button.
- Mode order : Purify Ion Mode (Power ON) ~ Anti-virus Ion mode ~ Power OFF

Select the "Purify Ion mode" in the following situations.

- Places to enjoy its anion effects strongly
- Places with dust, germs, or viruses
- Places with bad odors



Powerful anion effects



sanitization



deodorization

### + Anti-virus Ion Mode

How to set the unit to "Anti-virus Ion Mode".

- Power the unit ON to select the "Anti-virus Ion mode" by the touching Power / Start button.
- Make sure that the LED light shows the "Blue Light" on the Power / Start button.
- Mode order : Purify Ion Mode (Power ON) ~ Anti-virus Ion mode ~ Power OFF

Select the Anti-virus Ion mode in the following situations.

- Places contaminated seriously with germs, viruses, or pet dander
- Places contaminated seriously with bad odors
- Places contaminated seriously with dust and cigarette smoke



Powerful sterilization



Powerful deodorization



Powerful elimination of dust and cigarette smoke.

# How to clean and maintain this product

## Cleaning and Maintenance

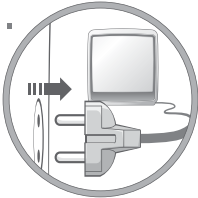
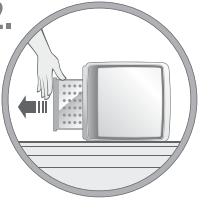
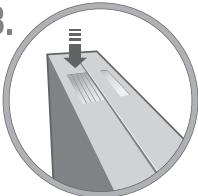
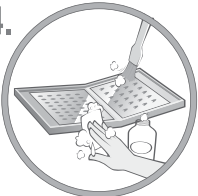
You must clean the Anion pack module when the following phenomena occur.

1. When the noise it makes sounds like "Tak", "Tak", "Tak" continuously.
2. When a heavy amount of noise is generated.
3. When the anion current stops.
4. Always keep the Anion pack module in the right position , when you insert an Anion pack module into the Body. A wrong position will cause decreased functionality or a malfunction.

(Cleaning the product will improve its performance, especially in heavily polluted areas.)

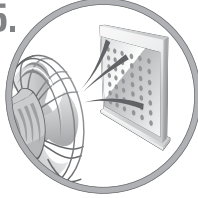
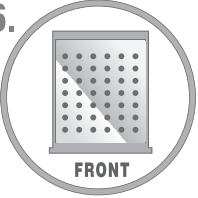
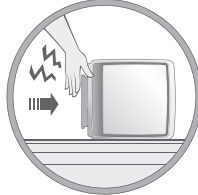

**\*Please clean the Anion pack module regularly. (At least once a month)**

## Method for Cleaning the Anion pack module

- 01.**  Set the unit in OFF mode, and then unplug the unit
- 02.**  Pull out the Anion pack module carefully by grabbing the anion pack module handle while leaning over the unit.
- 03.**  Disassemble the Anion pack module like opening a book by pressing the hook button.
- 04.**  Clean the anion plate and pins using a wet towel or brush. Water with synthetic detergent be used when you clean the anion plate and pins.

# How to clean and maintain this product

## Methods for Cleaning the Anion pack module and the Exterior of the product

- 05.**  After cleaning the plate and pins, dry the plate and pins thoroughly, and then reassemble the anion pack again.
- 06.**  Make sure it is in the right position, when you insert the Anion pack module back into the Body.
- 07.**  Insert the Anion pack module fully into the Body until you hear the sound, "tock".
- 08.**  After inserting the anion pack module correctly, the Product is ready to use.

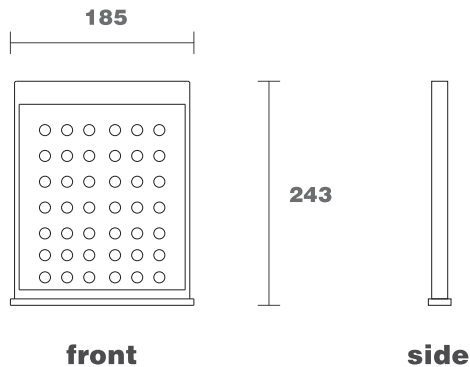
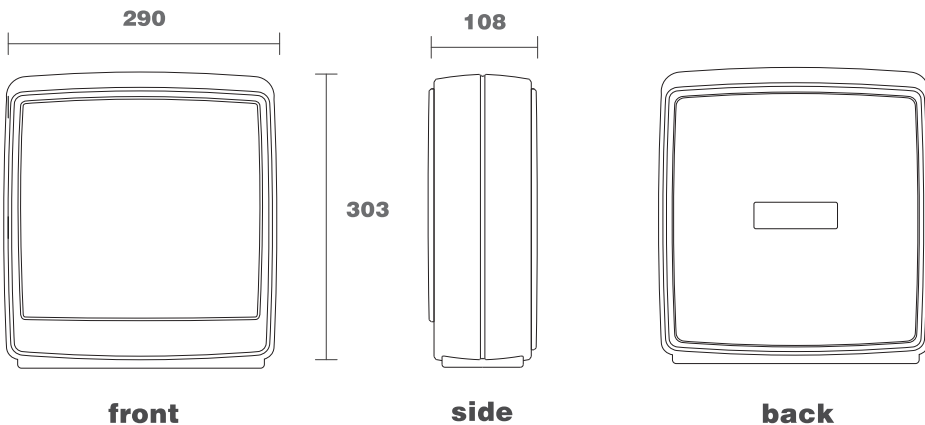
- Don't worry about scratching the plate due to carelessness during cleaning, it does not interfere with any of the product functions when operating the unit.
- Use a soft brush when you clean the pins, as to not damage the pins or your hand.

## Method of Cleaning the Exterior of the product

- 01.**  Wipe the unit with a warm, soft wet-towel.

# Product Specifications

## Technical specifications



Product type : IONIZER [PLASMA]	Color : Black / White
Model name : EUG - A1000	Rated Voltage : 100-240 V~,50/60 Hz
Size : 290(W) * 303(H) * 108(D)	Power Consumption : 6 w
Weight : 2.84 kg	Capacity Up to 58 m <sup>2</sup>

# Warranty

## LIMITED TWO (2) YEAR WARRANTY

The Warranty by AIRVITAMIN does not cover defects arising out of the improper use of the appliance.

The warranty does not cover the situations below:

1. Damages and defects arising out of improper use.
2. Damages and defects that occurred during its transportation or after the delivery of the product to the customer by the company.
3. Damages and defects arising out of low or excessive voltage, ungrounded plug usage, faulty electrical systems, or operating the appliance at different voltage values other than specified in the instructions.
4. Damages and defects arising out of fire and lightning.
5. Damages and defects arising out of repairs and maintenance by persons other than Authorized Services.
6. Defects arising out of a violation of the instructions in the manual.
7. Damages and defects arising out of the transportation of the product instead of repair.

Attention! Faulty maintenance and cleaning are not covered by the warranty.

1. Dust and pollution within the environment.
2. Damage to the plasma pack or anion module due to faulty cleaning.
3. Faulty installation or disassembly.
4. Operation with a damaged plasma pack, frame or power cord.

The above-mentioned defects and services are not covered by the warranty.

Should this product be proven defective in workmanship or material, the consumer's sole remedies shall be such repair or replacement as provided by the terms of this warranty.

Under no circumstances shall AIRVITAMIN be liable for any loss or damage, direct, consequential, or incidental, arising out of the use of or inability to use this product.

This warranty will be voided if the certificate of warranty lacks the stamp and signature of the supplier as well as the date of purchase.

This warranty will become void if the serial number (if applicable), model number identification, or brand have been wholly or partially removed or erased.

Please ship the product with box and text for assistance in your country in obtaining repairs

TO :  
IMPORT BY :

E-mail : [info@airvitamin.eu](mailto:info@airvitamin.eu)