

AIRVITAMIN

Plasma electron spray
ionizer system



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1. Introduction

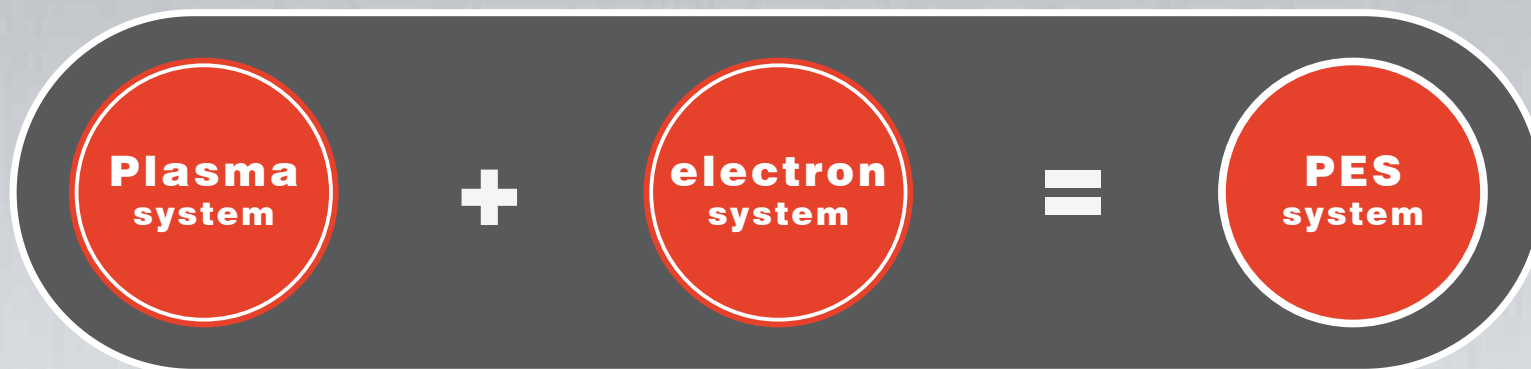
What is PES IONIZER SYSTEM?

PLASMA ELECTRON SPRAY IONIZER system.

Complex type of Plasma and Electron spray technologies to produce AIR-VITAMIN in the air.

(AIR-VITAMIN : ANION & ANTI-VIRUS ION)

PES IONIZER SYSTEM



Ionizer System is the complex type of Plasma & Electron-spray technology.

1. Introduction

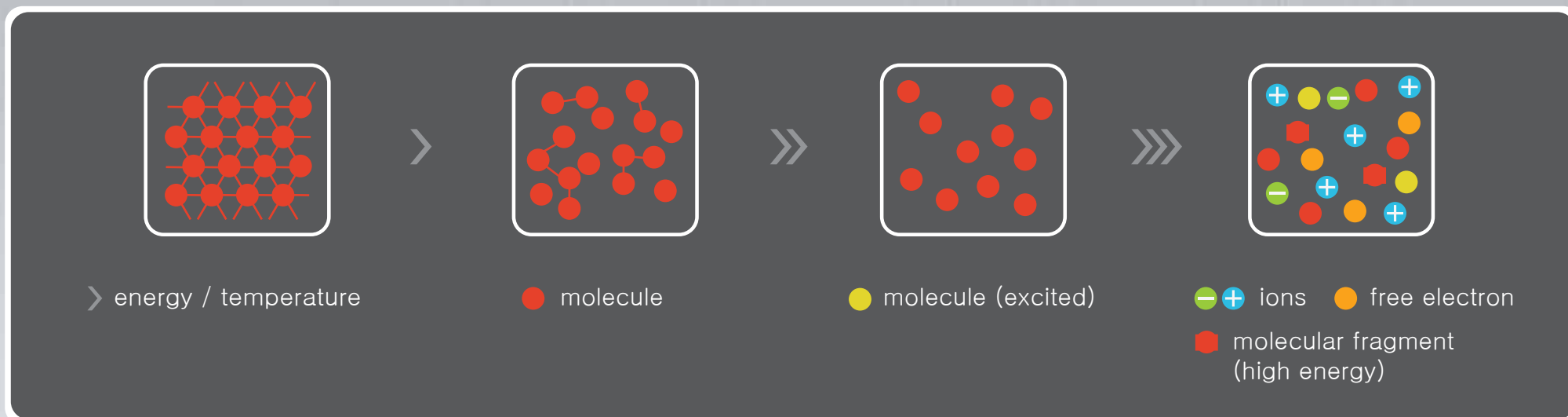
PLASMA TECHNOLOGY

Plasma is based on a simple physical principle. By supplying energy the states of matter 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 plasma state.

Plasma system uses high voltage of pulse type as a energy and divides H₂O in the air into H⁺.OH⁻.
 H₂O -> H⁺(Active hydrogen) + OH⁻(Radical anion)

Plasma technology



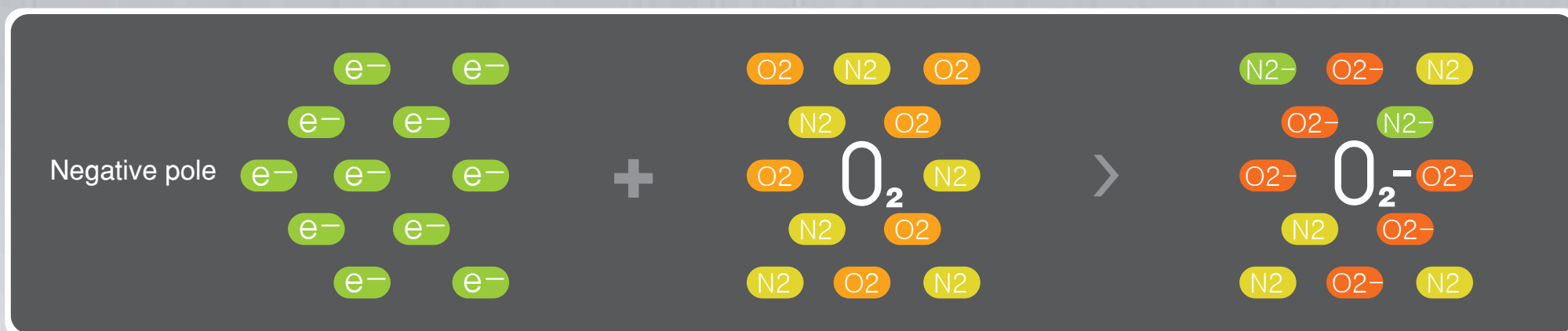
1. Introduction

ELECTRON SPRAY TECHNOLOGY

The composition of air is N₂ 78%, O₂ 21%, small amounts of other gas 1%.
 O₂ has the most powerful electron affinity among the air composition.
 Electron Spray system emits electron beam to the air from negative pole.

O₂ in the air combines with electron then become O₂⁻.
 O₂(Oxygen) + e⁻(electron) → O₂⁻(Oxygen anion)

Electron-spray technology



Electron Beam in the air

Normal air

Ionized O₂(O₂⁻)

2. Functions

Effects of AIR-VITAMIN (Anion & Anti-virus ion)

Anion (O_2^- , OH^-)

Purification of the air

Anion neutralizes and precipitates positive ions, which are bad for human, like Smoke, SO_2 , Nox, CO etc.

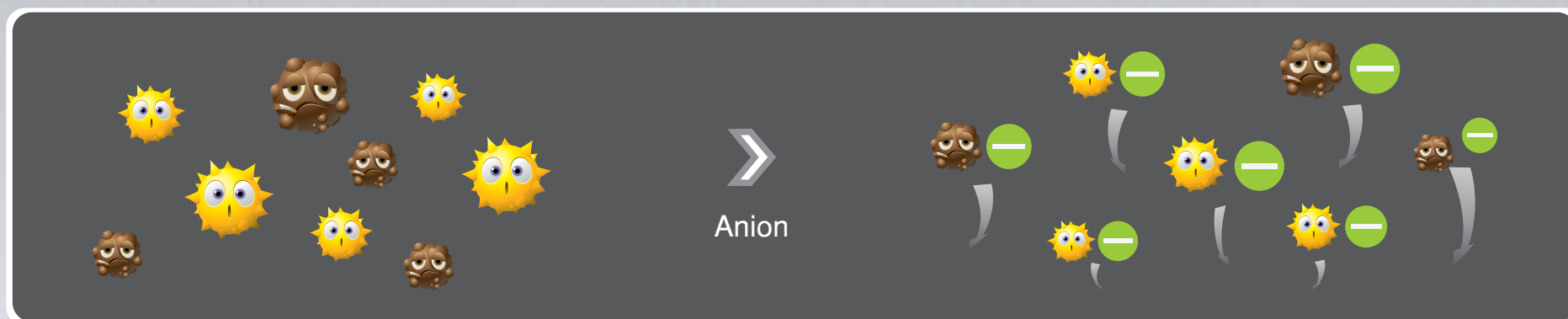
Promotion of health

Removes positive ions & raises activity of human body, Purifies human blood, Increases immune system, Prevent respiratory-related illnesses, Natural anti-depressant, Helps sleep better, Reduces Stress, Prevents from electron wave, Prevents such as VDT syndrome, Building disease syndrome.

Anti-bacterial function

It sterilize indoor bacteria, dust, pollen, mould and prevent their cultivation.

Anion (O_2^- , OH^-)



Dusts, Smoke, Pollen etc (positive ions)

Anion neutralizes and precipitates positive ions

2. Functions

The role of AIR-VITAMIN (Anion & Anti-virus ion)

Anti-virus ion (O_3^+ , HOO^-)

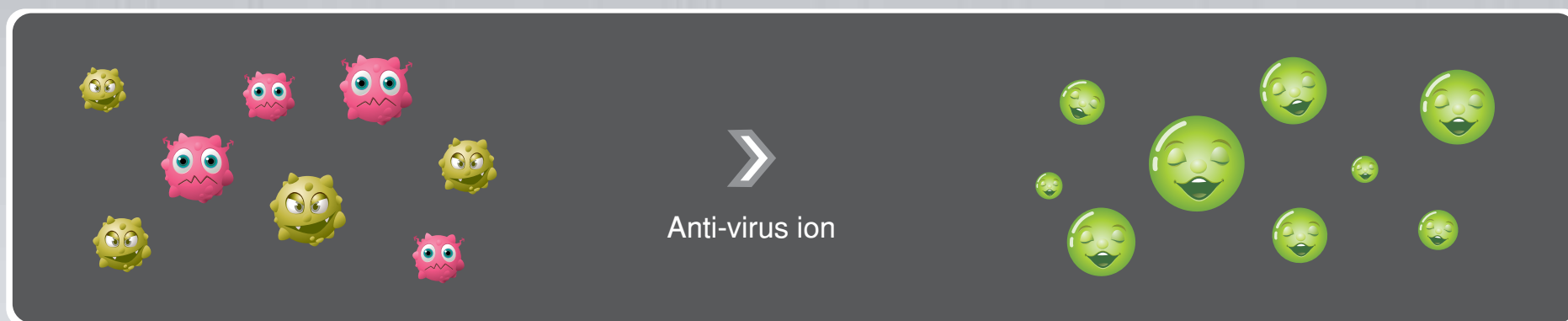
Anti-bacterial, Anti-virus effects of the air

Anti-virus ion eliminates spores, cysts, yeast and fungus.
It destroys bacteria, virus, mold and mildew.

Elimination of bad odors (Deodorization)

Removes indoor bad odors with chemical oxidized decomposition caused by O_3^+ and anion effect
So it makes comfortable place.

Anti-virus ion (O_3^+ , HOO^-)



Air with Vacteria, Virus & Bad odors

Healthy Air with Anions

3. Features



Incredible air purification

Quickly removes micro-dust, cigarette smoke, particles, pollens.

Removes bad odors and sterilize bacteria, virus in the air.



No fan, No noise, No filter

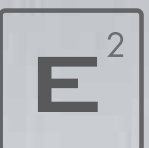
Product works quietly because it uses indoor convection current and anion current to spread air-vitamin (anion & anti-virus ion) due to plasma effect without fan.

Product has no filter so it is economic & easy to use without replacing filters



Power Saving engineering

It costs very low as Power rate.



Easy to Control and Effective Usage

Consumers can choose the mode actively according to their environments ,places ,purposes by touching the one-touch sensor button.

Mode : Purify ion mode / Anti-virus ion mode



Mood Lamp light

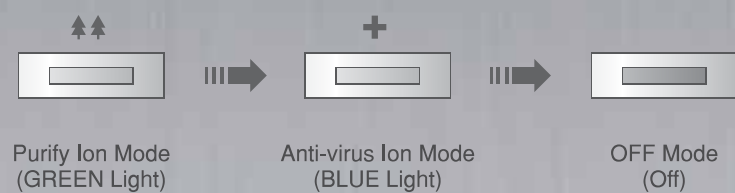
It creates a romantic indoor room when it operates.

3. Features

Innovative and Simple design

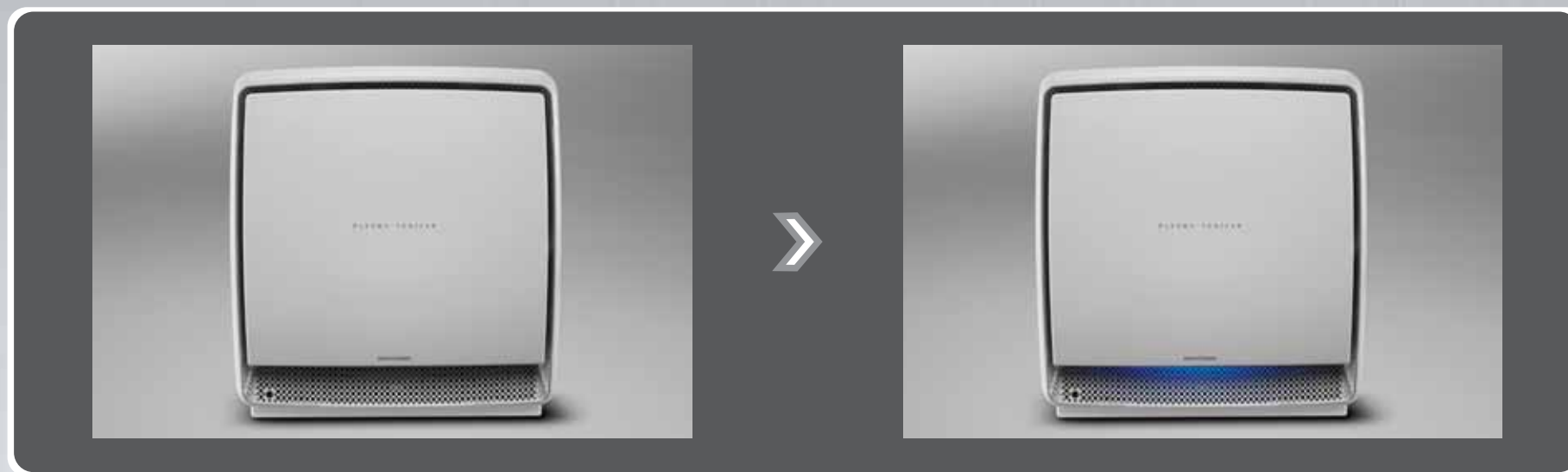
Mode

Purify ion mode / Anti-virus ion mode



Mood Lamp light

It creates a romantic indoor room when it operates



Mood lamp OFF

Mood lamp ON

4. Mode and Appliance

Mode :

Purify ion mode / Anti-virus ion mode

Purify ion mode (O₂⁻) ▲▲

Places polluted seriously with dusts, smoke, pollen, etc

Places for feeble person, children to promote for health

Ex. New building for preventing disease syndrome, Living room, Study room.

Anti-virus ion mode (HOO⁻, O₃⁺) +

Places easily breeding harmful germs, fungus, virus, bacteria, yeast etc

Places polluted seriously with bad odors

Ex. Bathroom, kitchen ,Smoking area, Places with pet , underground room.



5. Test report and Certifications

Test-report

Ozone test / Anion test / Deodorizing test / Sterilizing test



KICM
KOREA INSTITUTE OF CONSTRUCTION MATERIALS
Add. : 140-4, Seocho-2Dong, Seocho-Ku, Seoul, Korea
Tel. : 3415-8800-81 Fax. : 3415-8877 Url : www.kicm.co.kr

Certificate of Testing Result

Sample No. of Issue : B00004-FW009
 Name of Applicant : Hwang, Eun-Ju (Degree DMDE)
 Address of Applicant : Seilun/Vochon/BD 415, Deoseon-dong, Seongbuk-gu, Seoul, Korea
 Date of Receipt : Sep. 02, 2009
 Name of Test Sample : Insulor(EUG-A1000)

Result of Testing

Item	Test of Ozone Generation	
Result	Background Conc. (ppm)	0.003
	Final Conc. (ppm)	0.045
	Ozone Generation (ppm)	0.042
Testing Method	Test Method of Provided by Applicant (refer to the attachment)	


-10001-

• Object of test : Quality Control

1. This Test Report is the result of testing specimen and the name of sample provided by the applicant. But we do not guarantee the quality of entire product.
 2. This Test Report is not able to be public relation, advertisement, lawsuit without consent with KICM and this is not used except original purpose.
 3. The term of Applicant's issue is a half year from the date of issue. And the manuscript is invalidation.

Sep. 02 2009
 month day year
 Signed: *Bong Ki Moon*
 The general manager of Korea Institute of Construction Materials

2-1 



KICM
KOREA INSTITUTE OF CONSTRUCTION MATERIALS
Add. : 140-4, Seocho-2Dong, Seocho-Ku, Seoul, Korea
Tel. : 3415-8800-81 Fax. : 3415-8877 Url : www.kicm.co.kr

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 Address of Applicant : Seilun/Vochon/BD 415, Deoseon-dong, Seongbuk-gu, Seoul, Korea
 Date of Receipt : Sep. 2, 2009
 Name of Test Sample : Insulor(EUG-A1000)

Result of Testing

Item	Result	Test Method
Anion (CO3 ²⁻)	Blank	7.5
	Sample	9.8.0.4.0.0


KICM-FIR-1042

• Measuring Method : IR in

• Object of test : Quality Control

1. This Test Report is the result of testing specimen and the name of sample provided by the applicant. But we do not guarantee the quality of entire product.
 2. This Test Report is not able to be public relation, advertisement, lawsuit without consent with KICM and this is not used except original purpose.
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Tel. : 3415-8800-81 Fax. : 3415-8877 Url : www.kicm.co.kr

Certificate of Testing Result

Sample No. of Issue : B00004-FW009
 Name of Applicant : Hwang, Eun-Ju (Degree DMDE)
 Address of Applicant : Seilun/Vochon/BD 415, Deoseon-dong, Seongbuk-gu, Seoul, Korea
 Date of Receipt : Sep. 14, 2009
 Name of Test Sample : Insulor(EUG-1000)

Result of Testing

Test of Deodorization	
Gas	NEL
Conc. of Blank (ppm)	1.0
Conc. of Test Sample (ppm)	0.5
Rate of Deodorization(%)	9.5
Test Method	Test Method of Provided by Applicant (refer to the attachment)

-10001-

• Object of test : Quality Control

1. This Test Report is the result of testing specimen and the name of sample provided by the applicant. But we do not guarantee the quality of entire product.
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 3. The term of Applicant's issue is a half year from the date of issue. And the manuscript is invalidation.

Sep. 14 2009
 month day year
 Signed: *Bong Ki Moon*
 The general manager of Korea Institute of Construction Materials

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5. Test report and Certifications

Test-report

Ozone test / Anion test / Deodorizing test / Sterilizing test

KICM
KOREA INSTITUTE OF CONSTRUCTION MATERIALS
Add. : 140-4, Seorheo-dong, Seorheo-Ku, Seoul, Korea
Tel. : 3415-8900-81 Fax. : 3415-8927 URL : www.kicm.co.kr

Certificate of Testing Result

Sample No. of Issue : R00004-FW004
Name of Applicant : Hwang, Sun-In (Hwang SMH)
Address of Applicant : Seohun/Noctaid (SU 415, Daejeon-dong, Seongbuk-gu, Seoul, Korea)
Date of Receipt : Sep. 14, 2009
Name of Test Sample : KINSEKELIO-000

Result of Testing

Item of test	Result of Testing			Test Method
	Early Count (CFU/100g)	After 2hr. Count (CFU/100g)	Reduction rate of bacterial (%)	
Antibacterial test for <i>Escherichia coli</i>	BLANK	1.14.6	1.14.6	Client's requirement method
	KINSEKELIO-000	1.14.6	1	
Antibacterial test for <i>Salmonella typhimurium</i>	BLANK	1.17.5	1.17.5	Client's requirement method
	KINSEKELIO-000	1.17.5	1	

• Test strains : *Escherichia coli* ATCC 25922
Salmonella typhimurium IPD 1010B

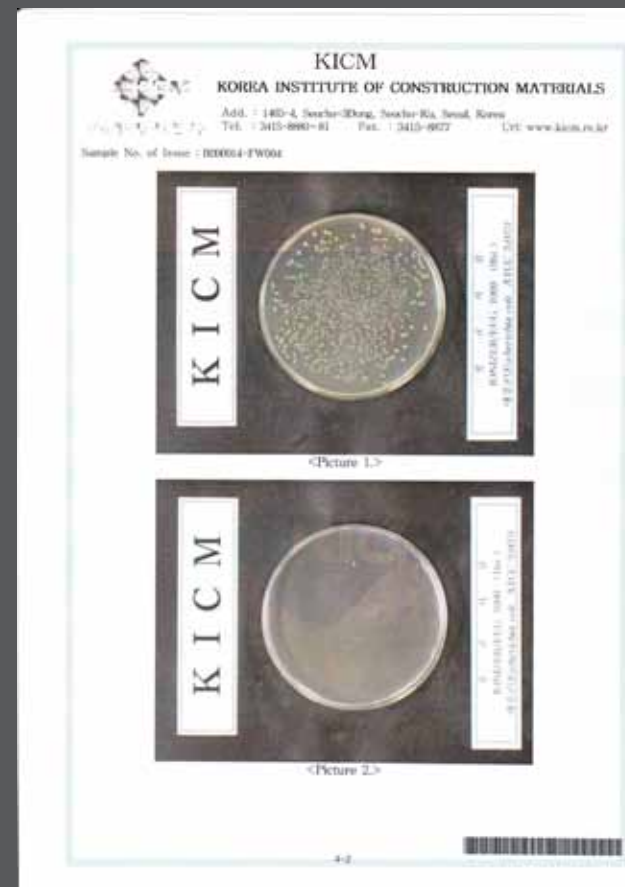
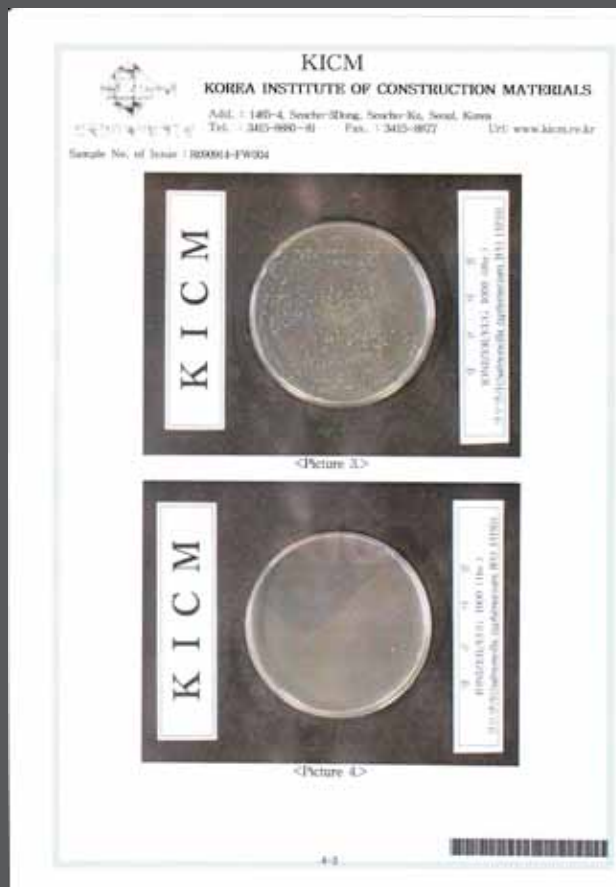
• Object of test : Quality Control

1. This Test Report is the result of testing specimen and the name of sample provided by the applicant. But we do not guarantee the quality of entire product.
2. This Test Report is not able to be public relation, advertisement, lawsuit without consent with KICM and this is not used except original purpose.
3. The term of duplicate's issue is a half year from the date of issue. And the manuscript is invalidated.

Oct. 22 2009
month day year

Signed : *Bong Ki Moon*
The general manager of Korea Institute of Construction Materials

4-1 



5. Test report and Certifications

Certifications

CE - complete



SGS  **SGS**  Date issued November 12, 2009
CERTIFICATE No.: F80001RF-SAF000064

CERTIFICATE OF EMC COMPLIANCE

Order No. G-44-2009-02628
Product submitted: IONZER(PLASMA)
Model: PUSJ-A1000

Applicant(Manufacturer): Eugene O&D, Inc.
415, Doosan-dong, 14, Seongdong-gu, Seoul, 133-714, Korea

Testing Laboratory: SGS Lab. 23 - SGS Testing Korea Co., Ltd.

Test Report Number(s): F80001RF-SAF000064
Date of Receipt: September 30, 2009
Date of Test: October 12, 2009 to November 04, 2009

Specification Requested: EN 55034-1:2005, EN 55034-2:1997(A1:2001)/Category II
EN 61000-3-2:2005, EN 61000-3-3:1995(A1:2000)UA2:2005

Conclusion
The apparatus meets the requirements of the above standards and hence fulfils the requirements of Directive 2004/108/EC.

This certificate is only valid for the equipment and configuration described, in conjunction with the test data detailed above. It does not permit the use of the SGS PRODUCT CERTIFICATION MARK.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

  
WooWoo Lee General Manager Eric Lee General Manager

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Member of SGS Group (Société Générale de Surveillance) **F80001**



SGS  **SGS**  Date issued November 12, 2009
CERTIFICATE No.: F80001RF-SAF000171

CERTIFICATE OF LVD COMPLIANCE

Product submitted: IONZER(PLASMA)
Model: EUG-A1000
Rated Input: 100-240 V~, 50/60 Hz, 6 W

Applicant(Manufacturer): Eugene O&D, Inc.
415, Doosan-dong, 14, Seongdong-gu, Seoul, 133-714, Korea

Testing Laboratory: SGS Testing Korea Co., Ltd.

Test Report Number(s): F80001RF-SAF000171
Order Number(s): G-44-2009-02628

Specification Requested: EN 60335-2-65: 2003 in conjunction with EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 and EN 50366:2003 + A1:2006

Conclusion
Based on a review of the test report, the apparatus meets the requirements of the above standards and hence fulfils the requirements of Directive 2006/95/EC.

This certificate is only valid for the equipment submitted and configuration described, in conjunction with the test data detailed above. It does not permit the use of the SGS PRODUCT CERTIFICATION MARK.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

  
WooWoo Lee General Manager Eric Lee General Manager

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6. Color variation

3 COLORS



Black & Dark silver



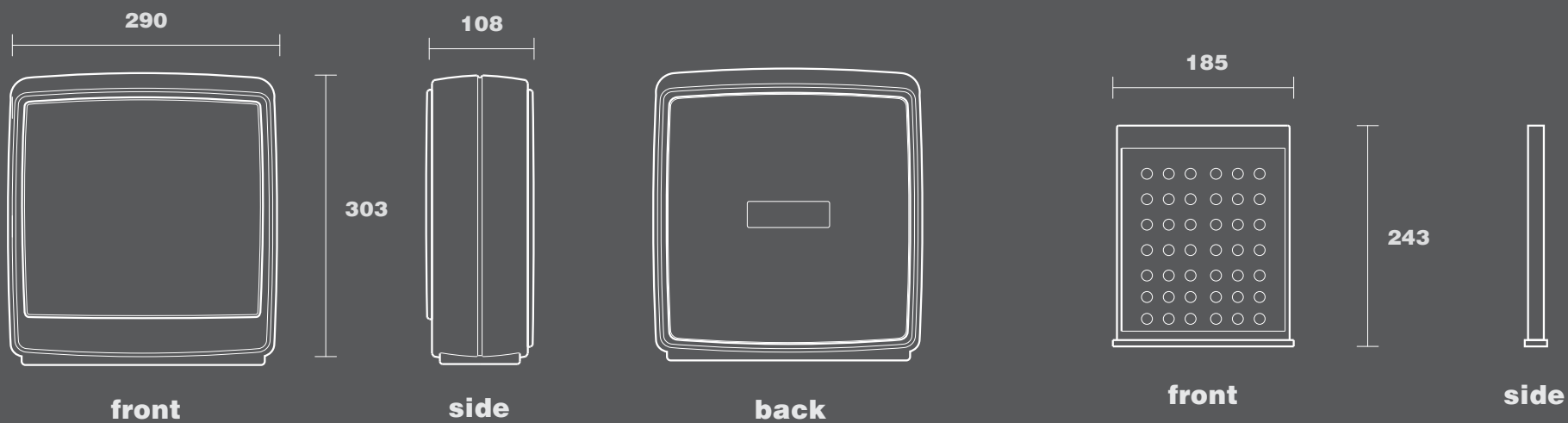
White & Silver



Black & Wine

7. Specification

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		

8. Package

3D VIEW



Model name		EUG - A1000		EUG - A1000U	
Picture		305 * 164 * 347 (mm)		305 * 164 * 347 (mm)	
Container Qty	20ft	1200	pcs	1200	pcs
	40ft	2400	pcs	2400	pcs

www.airvitamin.eu

AIRVITAMIN

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