

SAMSUNG SUPER PLASMA IONIZER

Air Purifying and Bacteria Eradication



Indoor Air Quality

www.elevisor.net



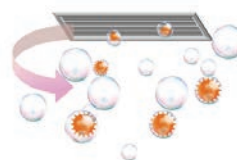
Aire Doctor Series – Super Plasma Ion (SPi)



SPi keep your passengers safe and healthy by ensuring that clean air is provided when they are inside the elevator. SPi generates Hydrogen atom (H+) and Oxygen ion (O₂-) which reacts together to form Hydroperoxyl radicals which the positively charged biological contaminants then reacts with three hydrogen elements of its protein structure before forming water vapor. Also, the Hydrogen atom (H) will combine with OH-radical to form a water vapor and neutralize harmful OH-radical.

SPi has been tested and proven by many academic institutions in Korea, Japan and the United Kingdom (UK) to remove up to 99.99% biological contaminants such as Bacteria, Influenza and SARS Virus, Fungi, molds. As a lift application, SPi eliminates harmful allergens (such as dust mites, dusts, and pets' hair) which may cause rhinitis, asthma or other allergic symptoms. It also removes cigarette and food odor effectively in lift car.

Certified by world renowned research centers:
Elimination of H1N1, H5N1, SARS



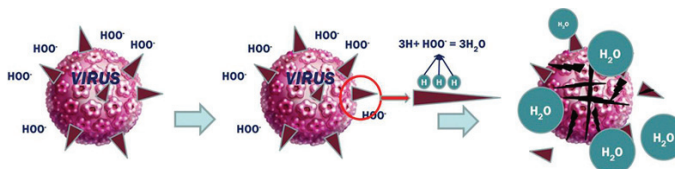
Advantages

- ★ eliminate airborne virus
- ★ eliminate allergens
- ★ neutralize harmful OH-radicals
- ★ no need to replace filters
- ★ quiet and silent
- ★ can operate continuously
- ★ super energy saver
- ★ certified effectiveness
- ★ emit harmless HOO-
- ★ effective against smoke or odor



How does SPi eliminate harmful air contaminants?

The SPi generates active hydrogen(H) and the oxygen ions(O₂-) which forms hydroperoxy radical (HOO-). Then it surrounds the positively charged biological contaminants and reacts with three hydrogen elements of its protein structure, forming water vapor. Also, the active hydrogen combines with OH-radical to form a water vapor, neutralizing harmful OH-radical. The process of eliminating the harmful substances is completely harmless to human body and SPi improves the air quality.



Awards & Recognition



AHR EXPO and its co-sponsors, ASHRE and AHRI, have selected S-Plasma ion Technology as the Winner in the IAQ (Indoor Air Quality) category of the Innovation Awards. A panel of judges, made up of ASHRAE members selected for their exceptional knowledge of the industry and its products, reviewed and evaluated all submissions. Product entries were judged for innovation, application, value to user, and market impact.

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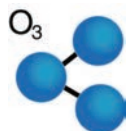
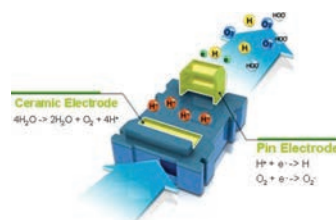
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How Safe is SPi to Human body?

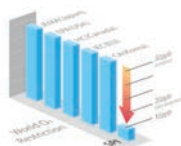
* Free from harmful positive ion

Positive ions cause discomfort and symptoms such as headaches and nausea and make breathing more difficult. SPI rarely generates harmful positive ions, which make you free from the potentially harmful positive ions



*Free from ozone

Samsung's ozone regulation is much stricter than that of many organizations around the world. Samsung controls the ozone emission level less than 10ppb. You will be free from the ozone smell.



*Free from toxic

Seoul Toxicology Laboratory has tested the SPI technology to prove its safety to human body. There were no signs of toxic symptoms observed at the animal test and no side effects of the ionizer, particularly on respiratory organs

Specifications

Model	SAE-100BH, SAE-100HS
Color	White, Silver
Method	HOO- (Hydroperoxy radicals) 氫過氧自由基
Voltage	220V 60Hz
Applicable Area (ft)	200*
Dimensions (mm)	75mm(w)x39mm(h)x95mm(d)
Deodorizing (ppb)	10 (less than)
Replacement Filter	No Filter
Display	OPERATING KEY / GRAPHIC / NIGHT Light
Power Consumption	High 20W, Med 12W, Low 10W

*depends on wind velocity

Certifications

SUBSTANCE	EFFECTIVENESS	CERTIFIED BY	
Influenza virus type A 甲型流感病毒	99.7% Elimination 99.6% Elimination	Kitasato Environmental Science Center 日本北里環境科學中心 Yonsei University 南韓延世大學	
Avian Influenza (H5N1) 禽流感	99.99% Elimination	Retroscreen 英國 Retroscreen 病毒學公司	
Influenza A Virus Subtype (H1N1) 豬流感	99.99% Elimination	Veterinary Medicine at Chungname National University 韓國忠南大學	
Corona virus (Strain of SARS-Corona Virus) 冠狀病毒 (沙士-冠狀病毒)	99.6% Elimination	Kitasato Medical Center 日本北里醫學中心	
Penicillium 青霉菌	98.4% Elimination	Kitasato Environmental Science Center 日本北里環境科學中心	
Asperillus 黑黴霉	96.4% Elimination		
Cladosporium 枝孢屬真菌	98.9% Elimination		
Staphylococcus aureus 金黃葡萄球菌	99.99% Elimination		
Micrococcus 小球菌	99.86% Elimination		
MRSA (Methicillin-resistant Staphylococcus aureus) 抗藥性金黃葡萄球菌 (耐抗生素院內感染病原)	99.99% Elimination		
Mold (Staphylococcus aureus / E.coil) 霉菌 (金黃葡萄球菌 / 大腸桿菌)	99.99% Elimination		Korea Consuming Science Research Center 韓國消費者研究中心
Allergen (Dust Mite, Cat/ Dog Allergen) 過敏原 (塵蟎 / 貓犬敏感原)	Effectiveness certified Effectiveness certified		Acquired British Allergy Foundation (U.K) Seal 獲得英國BAF認證 RT13) Test (U.S.A.) 三角研究團學院測試 (美國)
Natural Bacteria 天然細菌	Over 90% Elimination		Shanghai Academy of Preventive Medicine 上海預防醫學科學院
Animal toxicity test 動物毒性測試	Non-toxic		Seoul Toxicology Laboratory 首爾毒性研究所
Active hydrogen atom 活性氫原子	Active hydrogen formation verified	Hiroshima University (日本) 廣島大學	
OH-radical 氫氧自由基	Active oxygen neutralized		
Indoor Natural Bacteria 室內空氣中自然菌	93.54% Elimination	Guangzhou Center for Disease Control and Prevention 廣州市疾病預防控制中心	
Natural Bacteria in Laboratory 實驗室空氣中的自然菌	99.96% Elimination	Guangzhou Center for Disease Control and Prevention 廣州市疾病預防控制中心	