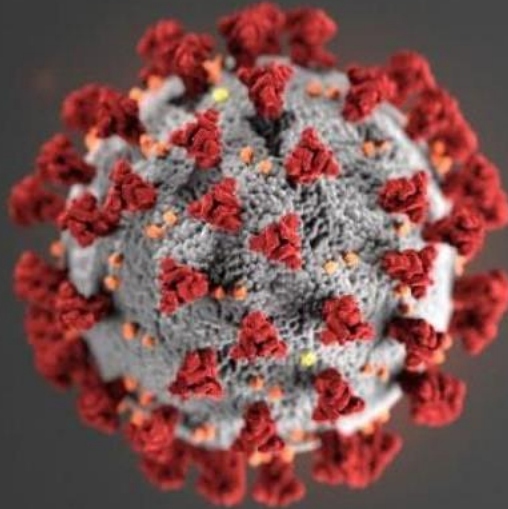




ANTI CORONAVIRUS SOLUTION



AIRION, both of SPACE STERILIZER & **OXYGEN GENERATOR**



Europe's second covid-19 wave is here but is it worse than the first. What would be your solution to protect your family and customers?

Protect the health of your family and customers with the AIRION which is a safe space sterilizer that sterilizes every room.

**Sterilizer, Purifier, Ionizer and
OXYGEN GENERATOR***

the superstar of **AIRION** (all in one)

*Exclusive to AIRION

November 2020



Functions of Oxygen

- Oxygen is a colorless, odorless, meaningless natural gas that accounts for about 21% of the atmosphere.
- In the past, the oxygen concentration in the atmosphere of the Paleozoic Earth was about 35%, but the oxygen concentration in the atmosphere gradually decreased due to civilization development and continuous environmental destruction.
- 30% of the world population, mostly urban people, are lacking in oxygen in the body due to many factors such as environmental pollution, lack of exercise stress, and diet.
- Oxygen is a source of life that binds to hemoglobin in the blood vessels and delivers to all cells of the body, such as bones and muscles, to promote human metabolism and to operate the brain, which is a sophisticated control center of our body, normally.



Supplemental therapy functions by Oxygen

- ✓ Blood circulation disorder
- ✓ Infection by bacterial virus
- ✓ Lung and respiratory diseases
- ✓ Cardiac and vascular dysfunction
- ✓ Respiratory hyperplasia
- ✓ Internal respiratory disorder
- ✓ Anemia type
- ✓ Enzymatic Deficiency
- ✓ Microvascular circulation disorder
- ✓ Cell Energy Supply Disorder
- ✓ Migraine
- ✓ Gastrointestinal disorder
- ✓ Immune degradation
- ✓ Sleep disorder
- ✓ Fatigue break and physical decline
- ✓ Autonomic nerve disorder
- ✓ Various addictions
- ✓ Blood cancer treatment

Effects of OXYGEN (1)



Why oxygen is good for our bodies?

● Hangover prevention effect

- ✓ When drunk, it becomes oxygen-deficient, and alcohol remains in the body in acetyl dehydrate state, causing hangovers such as headaches
- ✓ Oxygen is rapidly degrading alcohol



● Recovery of Fatigue, Pain Relief Effect

- ✓ Lactic acid builds up when muscles become tired
- ✓ Recover fatigue by quickly decomposing lactic acid into oxygen
- ✓ Muscle pain, rheumatism, arthritis, knee, shoulder pain relief



Effects of OXYGEN (2)



● Skin care, anti-aging

- ✓ Facilitating skin metabolism through deep oxygen supply
- ✓ Fine skin, whitening effect, anti-aging



● Prevention of Adult Diseases such as Hypertension, Diabetes, and Stroke

- ✓ Prevention of diseases caused by blood flow such as myocardial infarction, hypertension, angina, cerebral infarction, cerebral hemorrhage by arteriosclerosis
- ✓ Neutralization of ROS with High Pressure Oxygen
- ✓ Improvement of blood circulation



Effects of OXYGEN (3)



● Memory, Concentration, Learning Ability Improvement

- ✓ The brain is 2% of the human body weight, but the oxygen consumption of the brain is 40% of the human body.
- ✓ Supplying oxygen dramatically increases alpha wave emissions to the brain, improving memory, concentration and learning ability.



● Diet effect

- ✓ The unnecessary subcutaneous fat is disassembled to the metabolism promotion of cell.
- ✓ The oxygen of the large amount required for the collagen synthesis deciding the elasticity of the skin is provided.



Effects of OXYGEN (4)



- **Recovery of eye fatigue and diet effect**

- ✓ - Effect of recovery of eye fatigue and vision by abundant oxygen supply around the capillary eyes



- **Rapid recovery after injury and surgery**

- ✓ Fast recovery with sufficient oxygen supply to the wound or postoperative junction
- ✓ Minimize scarring on the junction after surgery due to rapid recovery



Effects of OXYGEN (5)



● Stress recovery effect

- ✓ Oxygen deficiency is caused by oxygen consumption in the body during oxidative action during hormone production process such as adrenaline due to stress.
- ✓ It has the effect that the stress is reduced due to the oxygen supply.



● Other effect

- ✓ It is effective for the treatment of autism.
- ✓ It is helpful for sleep and is effective for the treatment of insomnia.
- ✓ It is effective for depression and sperm degeneration.
- ✓ It helps to assist in the treatment of cancer patients.
- ✓ It helps prevent dementia.





What is an Oxygen Generator?

- It is a product that separates oxygen and nitrogen by inhaling the surrounding air, and then the customer can inhale oxygen.
- Air components are composed of 78% nitrogen, 21% oxygen, argon, and carbon dioxide. The decoupling-type oxygen generator uses a method of separating nitrogen, which accounts for 78%, to produce high concentration oxygen.
- Normally there is a nitrogen outlet in the form of a hose, which sends nitrogen out to the outside. High concentration oxygen can be supplied indoors or in the case of a personal oxygen supplier, a person can breathe directly through an oxygen headset with an outlet.

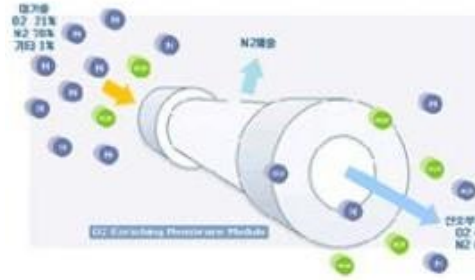
OXYGEN Extraction



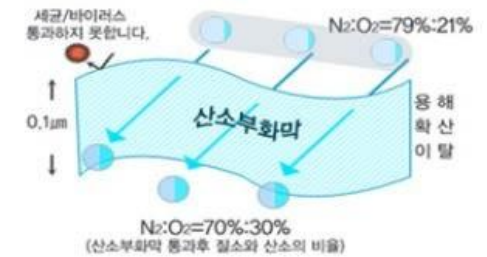
Extraction methods of Oxygen

1. VSA (Vacuum Swing Adsorption)

- The vacuum pump inhales the air. The oxygen and nitrogen are separated in a process of passing of inhaled air through the load film or membrane.
- The method using the load film or membrane can obtain low purity oxygen, but it has the advantage of low noise generation.



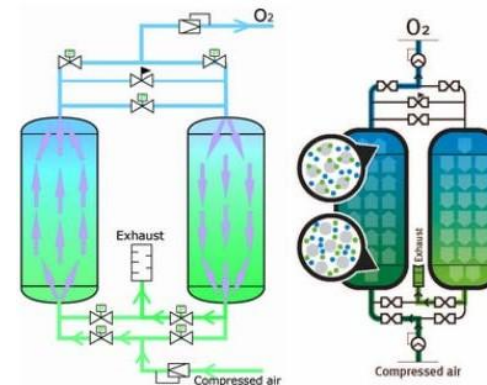
Membrane type



Load film type

2. PSA (Pressure Swing Adsorption)

- As the compressed air passes through the adsorption tower filled with the adsorbent, nitrogen, which is a steel adsorbent, is adsorbed to the adsorbent, and the oxygen, which is a weak adsorbent, is passed through and produced.
- The PSA method using the adsorbent (Zeolite) can obtain the oxygen of the high purity, but it has a disadvantage that noise generation is great.



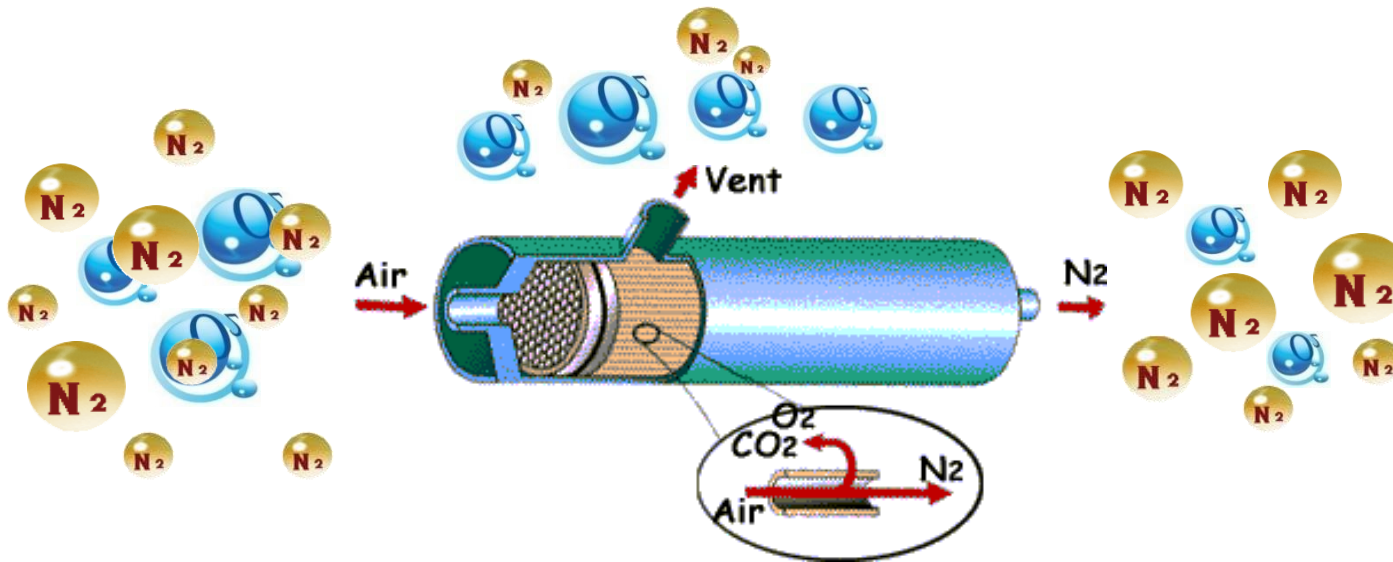
Oxygen Generator

Airion's Oxygen Generator



Oxygen Generation Technology in Airion

- VSA method
- Removal of nitrogen and oxygen by Hollow Fiber Membrane method
- The oxygen flow rate is 2,7~3.3 liters per minute (LPM).
- High Concentration of Oxygen: Purity 32~34%



$H_2O - H_2 - He - CO_2 - H_2S - O_2 - Ar - CO - N_2 - CH_4$

FAST ← Relative transmission rate → SLOW

Airion's Oxygen Generators



SA-13001 (Air Sterilizer with Oxygen Generator)

Specification

- Size: 430(W) x 300(D) x 780(H)
- Power consumption : AC 220V/120V, 60Hz, 110W
- Purification method : Pre-filter, Nano-silver filter, HEPA (High Efficiency Particulate Air Filter), Carbon filter, Quintuple photo-catalyst filter, Ultraviolet ray
- Fan speed : Automatic/manual, Speeds 1 through 4, sleep mode, Turbo mode
- Human sensor : Automatically detects the level of human activity.
- Filter change melody : Automatically detects the filter pollution
- Oxygen generation method : Membrane method
- Oxygen generation capacity : 2.0 LPM (installed dispenser)
- Oxygen purity : 30% or above
- Oxygen generation dispenser installed
- Negative ion generated
- Remote control : Multi-function control
- Timer : 90 minutes
- ABS exterior
- Weight : 17kg
- Color : Red, White





Features

- Compact design :
By optimized compact design, we minimized the size of the environment-friendly product with oxygen, anion, and digital VFD display of oxygen generation function.
- High efficiency oxygen generator :
The unit supplied clean 30% oxygen.
- Low noise product :
The dual noise suppression structure minimized noise.
- Inhalation method :
Air outlet or Headset method
- Accessory : Oxygen headset, Air brush
- Nitrogen emissions: 5m hoses

Reduction of lactic acid in blood



Test Method

The lactic acid in blood is measured 3 times – before exercise, after walk for 30 minutes, and after use of the product for 10 minutes. (Sample size: 5 persons)

Lactic Acid in Blood

An index representing the fatigue level, which usually increases with the increase of the fatigue



Certifications

Medical Certification (GMP)

인증번호(No.): KTC-888-598

의료기기 제조 및 품질관리 기준 적합인정서 (Certificate of GMP)

■ 업체명/허가번호(Gowony name of Applicant / License No.)
(주)에어아이씨 2007 호
Shin-Ah electronics co., LTD

■ 대표자 (Representative):
대표자 (보) 김복희

■ 업체 소재지 (Company address of Applicant):
경기도 수원시 일죽읍 평암로1번길 38
38, Beonyong-ro 1(Beonggil), Danwon-gu, Ansan-si, Gyeonggi-do, Korea

■ 제조소명 (Name of Manufacturer):
제조처 : (주)에어아이씨(Shin-Ah electronics co., LTD)

■ 제조소 소재지 (Address of Manufacturer):
소재지 : 경기도 수원시 일죽읍 평암로1번길 38
38, Beonyong-ro 1(Beonggil), Danwon-gu, Ansan-si, Gyeonggi-do, Korea

■ 품목군 (Category):
유기체지지 장치(Life Support System)
의료기기 제조 및 품질관리기준에 적합함을 인정합니다.
(We hereby certify that the above manufacturer complies with Korea Good Manufacturing Practices of Medical Devices for the product group listed above)

발행일자(Date of Issue) : 2017. 12. 30
유효기간(Date of Expiration) : 2020. 12. 09

KTC 한국기계전기전자시험연구원
Korea Testing Certification Institute

CB Certification

Ref. Certif. No.
SG-HS-00947

IEC TECEE CB SCHEME

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) / SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE METHODE OC CB SCHEME)

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product Produit	Oxygen concentrator Oxygen Generator
Name and address of the applicant Nom et adresse du demandeur	Shin-Ah Electronics Co., Ltd. #842, 48a, Shihwa Industrial Complex, Sungkok-Dong, Danwon-Ku Ansan-City, Kyunggi-Do 425-110, REPUBLIC OF KOREA
Name and address of the manufacturer Nom et adresse du fabricant	Shin-Ah Electronics Co., Ltd. #842, 48a, Shihwa Industrial Complex, Sungkok-Dong, Danwon-Ku, Ansan-City, Kyunggi-Do 425-110, REPUBLIC OF KOREA
Name and address of the factory Nom et adresse de l'usine	Shin-Ah Electronics Co., Ltd. #842, 48a, Shihwa Industrial Complex, Sungkok-Dong, Danwon-Ku, Ansan-City, Kyunggi-Do, 425-110, REPUBLIC OF KOREA
Rating and principal characteristics Valeurs nominales et caracteristiques principales	Rated voltage: 220-230 V ~ Rated frequency: 50 Hz Rated power input: 60 W Protection class: II
Model/type Ref Ref. de type	SA-2900
Additional information (if necessary) Information complementaire (si necessaire)	
A sample of the product was tested and found to be in conformity with Un echantillon de ce produit a ete essaye et a ete considere conforme a la	IEC 60335-1/A2:2006
as shown in the Test Report Ref. No. which forms part of this certificate comme indique dans le Rapport d'essais numero de reference qui constitue une partie de ce certificat	TUV SUD PSB Pte Ltd 077-243229-600
This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est etabli par l'Organisme National de Certification	
Date: 2009-12-01 CBS 09 11 72452 001	 (Teo Kim Hock)
TUV SUD PSB Pte Ltd 1 Science Park Drive, Singapore 118221	 PSB Singapore

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