



A9 Bama Negative Ion Smart Purifier

Improve air quality in life
You need a negative oxygen ion purifier

Five elements are essential for human survival





Bama county has a population of 236,200, including **102** centenarians.

It has the most centenarians among the world's top five places of longevity.

The centenarians in Bama are all very healthy and rarely get sick.
Most centenarians are still fit enough to take care of themselves.

——Official data from the Guangxi government

What are negative ions?

It is a general term for a single negatively charged gas molecule and hydrogen ion group, which is formed **by the free free electrons produced by various factors in nature and combined with oxygen**, so it is also called "negative oxygen ion".

In nature, sunlight, lightning, storms, plant photosynthesis, waterfalls, streams, waves, etc., are the main sources of negative ions. Forests, waterfalls and wetlands are important sites for the production of negative ions.

Negative ions have four famous names in the medical field: **"environmental police"**, **"air vitamin"**, **"atmospheric longevity hormone"** and **"sleep benefit factor"**.

Clinical study of Negative oxygen ion



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10th International Symposium on Heating, Ventilation and Air Conditioning, ISHVAC2017, 19-22 July 2017, Beijing, China
improve the quality of sleep

Effects of negative oxygen ions on sleep quality

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Effects of Pulmonary Rehabilitation Training Combined with Negative Oxygen Ion Inhalation on Stable Chronic Obstructive Pulmonary Disease and Immune Function

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[Abstract] Objective To investigate the effects of pulmonary rehabilitation training combined with negative oxygen ion inhalation on stable chronic obstructive pulmonary disease (COPD) patients. Methods 70 patients admitted to the First Affiliated Hospital of Hainan Medical College from February to June 2019 were selected in this study. The patients were divided into a control group and an observation group with 70 cases in each group according to the random number method. The control group received pulmonary rehabilitation training alone, and the observation group received pulmonary rehabilitation training in combination with negative oxygen ion inhalation. The treatment duration was 3 months. The lung function indices including forced vital capacity (FVC), forced expiratory volume in one second (FEV1), and percentage of FEV1 to normal predicted value (FEV1%) were compared between the two groups. Respiratory muscle function indices including measured ratio of maximum inspiratory pressure (MIP%) and measured ratio of maximum expiratory pressure (MEP%) were compared between the two groups. Exercise tolerance index (such as 6-min walking distance) and quality of life scores were compared between the two groups. The level of peripheral immunoglobulin (Ig) (IgA, IgG, IgM), and T cell subsets (CD3⁺, CD4⁺, CD4⁺/CD8⁺) were determined. **Results** After training, FEV1, FVC, FEV1%, MIP%, and MEP% in the two groups were increased significantly, and the levels of these indices in the observation group were higher than those in the control group ($P < 0.05$). The 6-min walking distance at month 1, 2 and 3 of training in the observation group was longer than that in the control group ($P < 0.05$). After training, the quality of

Journal of Clinical
Sleep Medicine

SPECIAL ARTICLE

Clinical Guideline for the Evaluation and Management of Chronic Insomnia in Adults

Sharon Schutte-Rodin, M.D.; Lauren Broch, Ph.D.; Daniel Buysse, MD.; Cynthia Dorsey, Ph.D.; Michael Sateia, MD.†

Improve chronic insomnia

Insomnia is the most prevalent sleep disorder in the general population, and is commonly encountered in medical practices. Insomnia is defined as the subjective perception of difficulty with sleep initiation, duration, consolidation, or quality that occurs despite adequate opportunity for sleep, and that results in some form of daytime impairment. Insomnia may present with a variety of specific complaints and etiologies, making the evaluation and management of chronic insomnia demanding on a clinician's time. The purpose of this clinical guideline is to provide clinicians with a practical framework for the assessment and disease management of chronic adult insomnia, using existing evidence-based insomnia practice parameters where available, and consensus-based recommendations to bridge areas where such parameters do not exist. Unless otherwise stated, "insomnia" refers to chronic insomnia, which is present for at least a month, as opposed to acute or transient insomnia, which may last days to weeks. **Citation:** Schutte-Rodin S; Broch L; Buysse D; Dorsey C; Sateia M. Clinical guideline for the evaluation and management of chronic insomnia in adults. *J Clin Sleep Med* 2008;4(5):487-504.

Biological effects of negative air ions on human health and integrated multiomics to identify biomarkers: a literature review

Sha Xiao^{1,2} · Tianjing Wei² · Jindong Ding Petersen¹ · Jing Zhou¹ · Xiaobo Lu²

Negative oxygen ions enhance antioxidant and anti-inflammatory levels in human body

Abstract Environmental pollution such as smog, haze, and acid rain (NAs), which were discovered at the end of the nineteenth century, is one of the factors used to evaluate air quality. Additionally, NAs have been widely considered markers by scholars due to their unique biological function. The aim of this study was to summarize existing research and propose future research on the generation and temporal and spatial dynamic patterns of NAs concentrations as well as the relationship between NAs and human health. We identified 187 studies (published January 2013–January 2023) that met our inclusion criteria. Fourteen English studies evaluated the effects of NAs on depression, the cardiovascular system, the respiratory system, reproduction and development, cognition, and sports muscle injury. Only two studies reported the associations of NAs exposure with metabolic omics. NAs concentrations vary temporally with solar radiation, air temperature, and relative humidity, while the temporal dynamic patterns of NAs are affected by season, time, meteorological factors, air quality index, geographical location, forest vegetation, and other factors. Researchers have shown that exposure to



Research Article

NEGATIVE AIR IONS INDUCED AMELIORATION OF BIOCHEMICAL PARAMETERS IN CEREBRAL PALSY PATIENTS

Ammara Rafique

College of Physical Therapy & Rehabilitation, Indus University of Health Sciences, Karachi, Pakistan
Cerebral palsy (CP) is an umbrella term for a group of neurological abnormalities that affect the brain, which tend to happen before or soon after birth or in early childhood. The study aimed to explore the influence of negative air ions (NAIs) on biochemical parameters in CP-inflicted patients and was conducted from February 1st to March 30th, 2021. Thirty-one structured sessions of exposure to NAIs were conducted for six weeks after randomly allocating CP-inflicted participants into control (n=12; Median age: 14±5 years) and intervention groups (n=16; M age: Median age=14.5±7.1 years). Bio-

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Clinical efficacy of synthetic negative air ions for hyperlipidemia

TAO Mingzhang¹, LI Hui², CHEN Shaoshou³, LI Haitao⁴

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[Abstract] Objective To explore the clinical efficacy of artificial negative air ions in the treatment of the patients with hyperlipidemia. Methods The artificial negative air ions were generated by artificial means treated of the patients with hyperlipidemia. 74 patients with hyperlipidemia were randomly divided into the experiment group (negative oxygen ions treatment group) and the control group (oral administration, polysaccharide sulfate). The two groups were treated by negative oxygen ions therapy and blood-lipid lowering drug therapy. Before treatment and after treatment fasting venous blood were collected in order to determine serum triglyceride and total cholesterol. The results were carried out by test. **Results:** After thirty-days-treatment, the triglyceride decreased excellent effective rate and overall effective rate in both groups were 81.2%, 91.9% and 50.2%, 64.6%, respectively, there were significant differences in the excellent effective rate and total effective rate between the experiment group and the control group ($P < 0.05$). Meanwhile, the total cholesterol decreased excellent effective rate and total effective rate was 70.7% and 78.4%; control group were 68.5% and 70.6%, respectively, there were no significant differences between the two groups ($P > 0.05$). Compared with conventional drug therapy, the negative oxygen ions can be more effective in reducing triglyceride levels in patients with hyperlipidemia, but the effects of the two therapies reducing the total cholesterol levels is roughly equal. **Conclusion:** The artificial negative oxygen ions therapy for hyperlipidemia is remarkably, stable and has no side effects, could improve body function and enhance the total effect of resistance. The therapy for hyperlipidemia, especially for elderly patients with a variety of chronic diseases with hyperlipidemia, is an ideal non-drug therapy.

Did you sleep well?



The average sleep latency (SOL) does not exceed 30 minutes



The awakening time (WASO) after awakening does not exceed 30 minutes.



Sleep efficiency (SE) greater than 85% (the ratio of actual sleep time to total time spent in bed)



The total sleep time (TST) shall be no less than 6.5 hours

In addition, quality sleep should also meet the following conditions: improving daytime functional disorders related to insomnia, such as reducing fatigue, enhancing concentration, and improving mood.

Establish a positive connection between the bed and sleep to reduce sleep-related psychological distress.

Schutte-Rodin S, Broch L, Buysse D, et al. Clinical Guideline for the Evaluation and Management of Chronic Insomnia in Adults[J]. Journal of Clinical Sleep Medicine, 2008, 4(5): 487 - 504.



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10th International Symposium on Heating, Ventilation and Air Conditioning, ISHVAC2017, 19-22 October 2017, Jinan, China

Effects of negative oxygen ions on sleep quality

Ruiqi Liu^a, Zhiwei Lian^{a,*}, Li Lan^a, Xiaolei Qian^a, Kejian Chen^b, Kaisheng Hou^b, Xia Li^b

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Abstract

This paper aims to investigate the effects of negative oxygen ions on sleep quality. An experiment was held using both subjective and physiological methods on 33 subjects (16 females and 17 males). The subjective assessment on sleep quality was surveyed and the duration of every sleep stage was determined. The results of this experiment indicate that the negative oxygen ions have a significant effect on sleep quality. The subjective results indicate that with negative oxygen ions subjects fell asleep easier, meanwhile, the objective results indicate that the duration of sleep onset latency was shortened and the slow-wave sleep was lengthened. All these results show that negative oxygen ions can improve people's sleep quality.

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Keywords: Negative oxygen ions; Sleep quality; Electroencephalogram (EEG); Subjective questionnaire

Improve sleep quality

Increase the secretion of melatonin, improve brain blood circulation, regulate parasympathetic nervous system

Clinical study on improving sleep quality of insomnia patients with artificial air anion therapy

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(1.中国空气负离子暨臭氧研究学会,广东广州 510300;2.南方医科大学南方医院呼吸睡眠中心,广东广州 510516; 3.香港玛丽医院精神科,香港 999077;4.中山大学附属第一医院神经内科,广东广州 510080)

[摘要] 目的:探讨人工空气负离子疗法对失眠患者的治疗效果及作用机理。方法:将香港玛丽医院同期入院的患者28例和本学会征集的32例患者(共60例),随机分为实验组与对照组各30例,分别使用氧卫士氧魔方负离子臭氧生成器和负离子空气维他命养机进行负氧离子治疗。用匹兹堡睡眠质量指数量表(pittsburgh sleep quality index, PSQI)评价治疗前后睡眠状况。结果:实验组和对照组在治疗后睡眠质量均有明显改善($P<0.01$);与对照组相比, XH-A8型氧卫士氧魔方负离子臭氧生成器产生的空气负离子对失眠疗效更佳($\chi^2=7.7524, P<0.05$)。结论:人工空气负氧离子疗法能明显改善失眠患者的睡眠质量,效果确切,副作用少,是一种有效的非药物疗法,值得推广应用。

[关键词] 人工空气负离子;负氧离子;失眠;睡眠质量;睡眠障碍

[中图分类号] R454

[文献标识码] A

[文章编号] 1674-4721(2011)01(b)-007-02

"Negative oxygen ion inhalation therapy" is included in China national medical projects

Negative oxygen ion has already become a new favorite of the medical industry. Data of China Medical Insurance Service Platform shows that tens of medical projects relating to "negative air ion" and "negative ion" have been included in national medical projects, with medical directory code of 003401000160000.

Negative air ion therapy has become a new way to solve human health problems effectively and has been favored by all circles for an obvious effect **but no toxic and side effect. It can effectively cure white-collar diseases and senile diseases, especially insomnia, asthma and allergy, etc.**

国家医保服务平台 fuwu.nhsa.gov.cn

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- 疾病诊断、手术操作分类与代码
- 医疗服务项目分类与代码**
- 跨省费用直接结算服务查询

服务项目名称: 空气负离子 医疗目录编码: 请输入医疗目录编码

序号	服务项目名称	医疗目录编码	诊疗项目类别
1	空气负离子治疗	003401000160000-00340...	-
2	空气负离子治疗	003401000160000-LEBZX...	-
3	空气负离子治疗	003401000160000-34010...	-
4	空气负离子治疗	003401000160000-34010...	-
5	空气负离子治疗	003401000160000-34010...	-
6	空气负离子治疗	003401000160000-34010...	-
7	空气负离子治疗	003401000160000-34010...	-
8	空气负离子治疗	003401000160000-34010...	-
9	空气负离子治疗	003401000160000-34010...	-
10	空气负离子治疗	003401000160000-34010...	-

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**The higher the concentration of negative ions
the more beneficial it is to health.**

Environment	Negative ion concentration (Negative oxygen ion/cm ³)	Relation to health
Air-conditioned room	0-20	Prone to cause symptoms such as "AC sickness"
Closed areas of urban residences	40-50	Result in physiological barriers (e.g.: headache, insomnia, neurasthenia and fatigue, etc.)
Green areas of streets	100-200	About to result in physiological barriers
Urban parks	1000-2000	Maintain primary needs for human health
Suburbs and fields	5000-50000	Enhance human immunity and anti-bacterial ability
High mountains and seaside	50000-100000	Kill bacteria and reduce infection of diseases
Forests and falls	100000-500000	Human body has self-healing capacity

—Professor Lin Jinming from Tsinghua University Environment, Health and Negative Oxygen Ion

**The World Health Organization (WHO) defines clean air as
having a concentration of 1000-1500↑/CM³ negative ions"**

The farther to nature, the less negative air ions

When air molecules gain sufficient energy under external conditions such as **ionization**, peripheral electrons separated from the nucleus will turn to free electrons, and neutral molecules losing electrons or nucleus will turn to positive air ions. However, neutral molecules or atoms in the air will turn to negative air ions after capturing escaping free electrons. **They will turn to negative air ions after captured by oxygen.**

In nature, the following natural elements will ionize air molecules to produce negative ions

➤ **Solar radiation**

Ultraviolet ray, cosmic ray and other radiation energy can ionize air molecules.

➤ **Photosynthesis of plant**

Plants can release oxygen and produce come negative ions in the course of photosynthesis.

➤ **Function of water**

e.g.: waterfall impact, sea wave impact and rain wash, etc. Water molecules can dissolve under water energy and produce negative ions.

➤ **Thunder**

Electrion in the thunder process will ionize air molecules.

Air vitamin

Sleep assistor

Environmental police

Long-lived elements in the air

Improve air quality in life

You need a negative oxygen ion purifier

Take fresh air home from forest

200 million negative oxygen ions/cm³

High-concentration negative oxygen ion



A9 Bama Negative Ion Smart Purifier

Dual negative ion head 200 million negative oxygen ions at the air outlet

Dual negative ion pioneer
Dual output
Dual purification effect



Test Report on the Concentration of Negative Oxygen Ions of A9

Test No. KJ202300901

GUANGZHOU INSTITUTE OF MICROBIOLOGY GROUP CO., LTD.
NATIONAL CENTER OF QUALITY INSPECTION AND TESTING
ON AIR PURIFICATION PRODUCTS

TEST REPORT

Date Received: Apr. 28, 2023
Date Analyzed: May. 05, 2023

Method for Testing Negative Ions Concentration:

1. Test Equipment
Air Ion Counter
2. Running State of the Sample
Set the switch to position "the 3rd gear".
3. Test Procedure
 - 1) Test the background negative ions concentration.
 - 2) Turn on the sample, test the negative ions concentration under the stable operation.

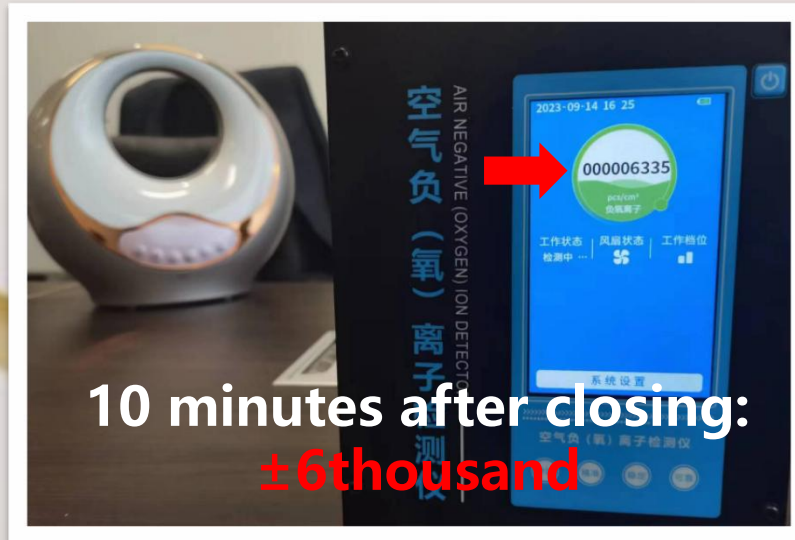
Test Results

Number of Sample	Negative Ion Concentration (ions/cm ³)	
	Background Air Negative Ions Concentration	Negative Ion Concentration Test Samples at 2cm
KJ202300901-1	<1×10 ³	>1.999×10 ⁸

End of report



Negative oxygen ions are diluted in space



Effect of negative oxygen ion on air



Eliminate smoke and dust

Negative ion can quickly neutralize and precipitate positive ions such as coke gas, "second-hand smoke", flue gas and dust in the air and eliminate peculiar smell.



Eliminate harmful gases incurred during decoration

Scientific experiment shows that there are 2000 negative ions per cubic centimeter, and the 24h removal rate of harmful gases such as formaldehyde, benzene series and ammonia contained in indoor air is greater than 80%. A certain amount of negative ions can eliminate cumulative pollution caused by harmful gases incurred during decoration to purify air.



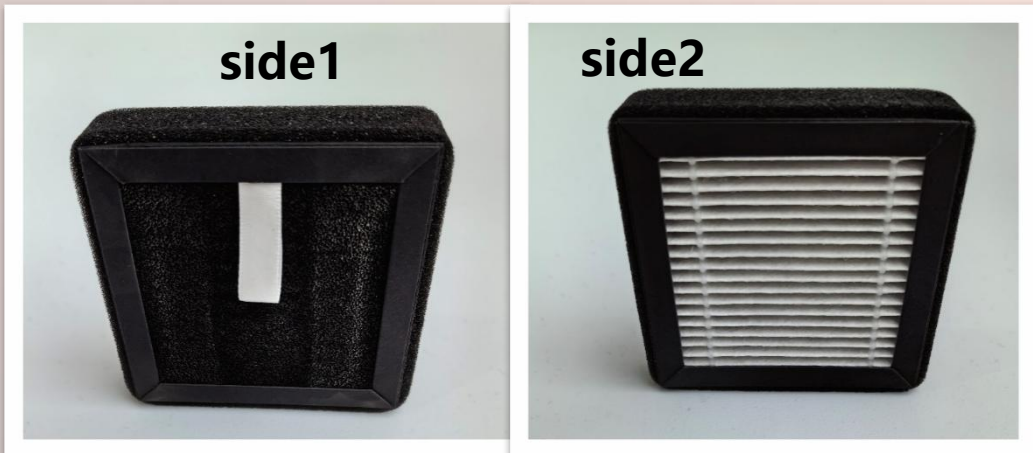
Kill and inhibit bacteria

Viruses and bacteria are often positively charged, and negative ions can absorb such viruses and bacteria easily and kill them through changing the protein structure or transferring energy. In 1960, Dr. 克爾加 and Dr. Smith from Germany found from experiment that negative ion can reduce bacteria in the air by 23% per minute.

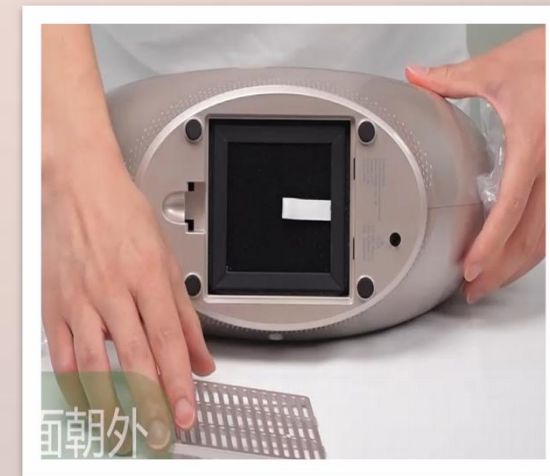


Near A9

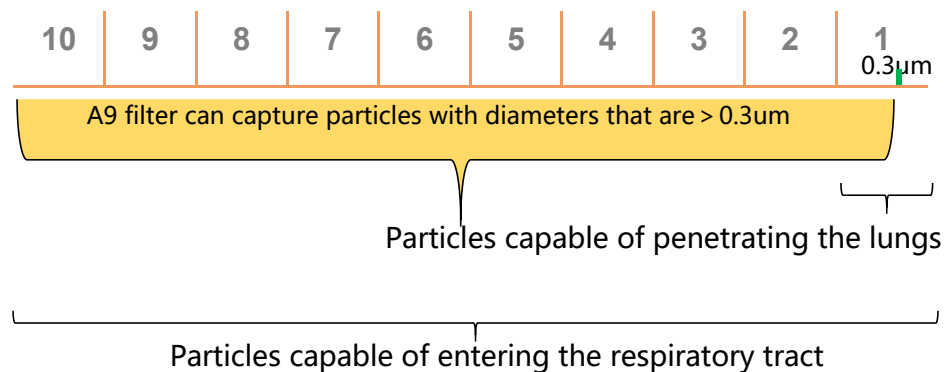
**Dust accumulation
phenomenon**



HEPA filter, triple-layer filtration material



Airborne particulate matter diameters/ μm



The service life of the filter is primarily determined by the air cleanliness of the usage environment. Regular inspections are required, and it is generally recommended to replace the filter every 6 to 12 months. Contact the Olylife after-sales channels for inquiries regarding replacement.

Product characteristics

200millionnegative ions

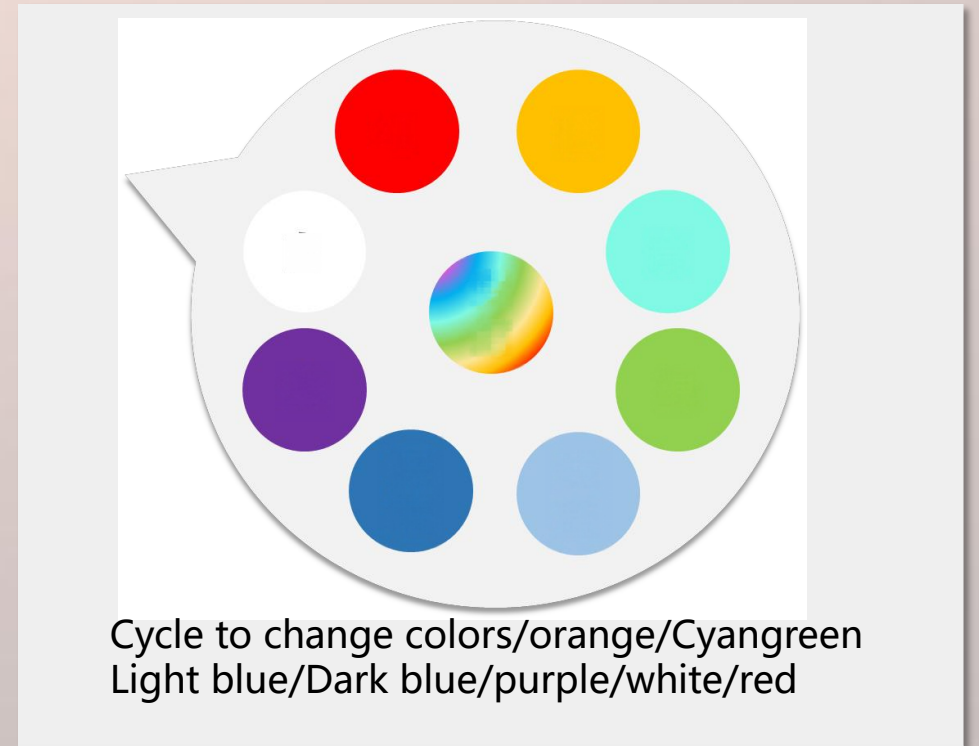
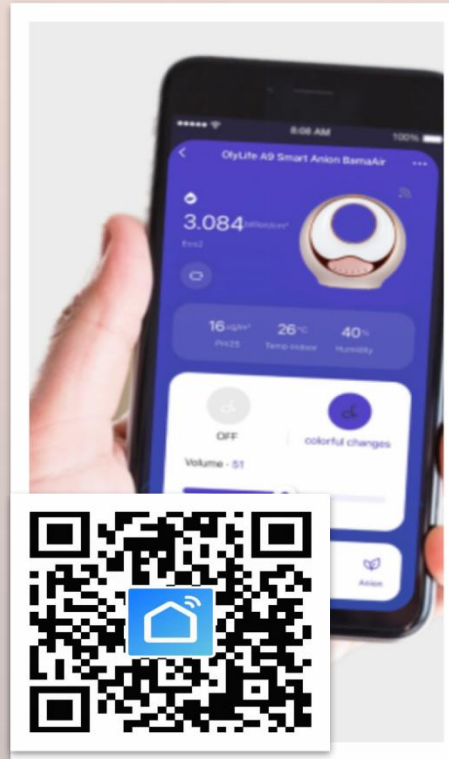
9 color light

Hepa filter (> 0.3um)

Light music

Remote operation APP

3modes
Automatic / Sleep / repellent



A9 Smart Life APP(smartlife) ,The QR code of the instruction manual is globally applicable,Applicable to Android or ios systems

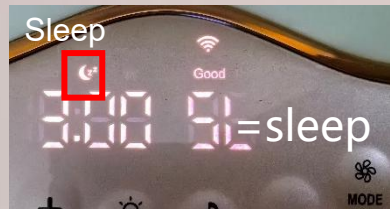
Digital display introduction and key introduction

MODE: Auto, Sleep, Mosquito Repellent

Air Quality:
(GOOD) / (Moderate) / (Poor)



Mosquito Repellent



Sleep

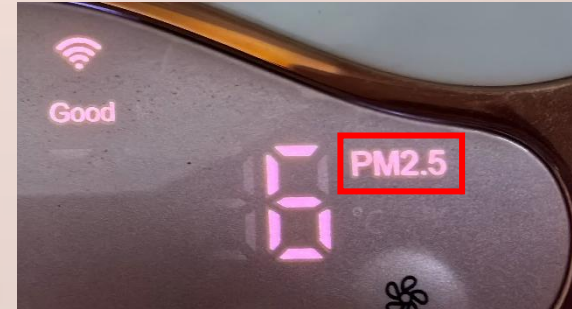


Ions
Hm/cm³
3.00

Good
28.0 °C

Negative Ion Concentration from Dual Outlets:
3 Hundred million/cm³

Temperature



Indicates that the current ambient air contains particulate matter with a diameter of 2.5 micrometers or less, at a concentration of 6 micrograms per cubic meter

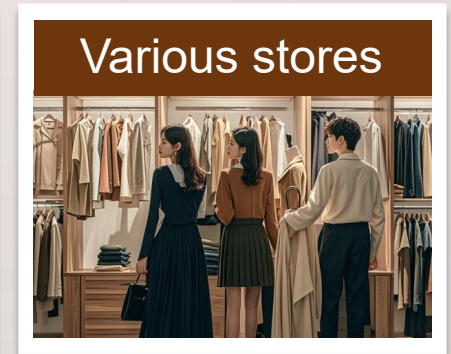
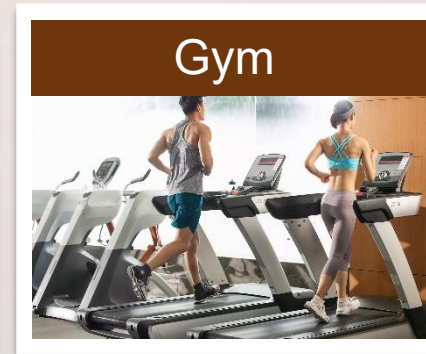
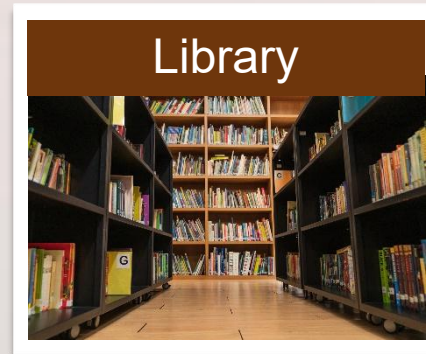
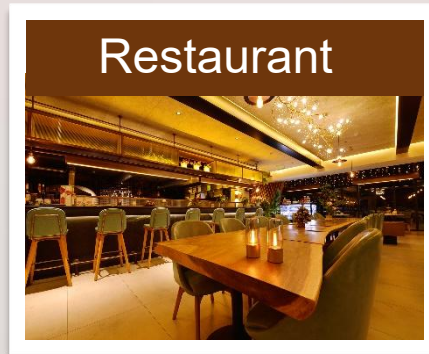
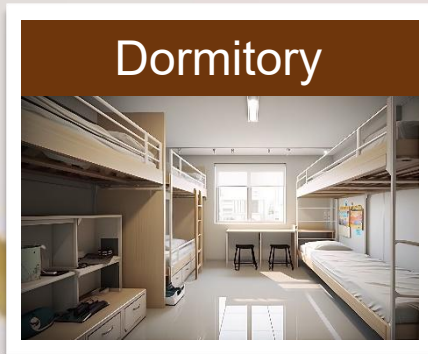
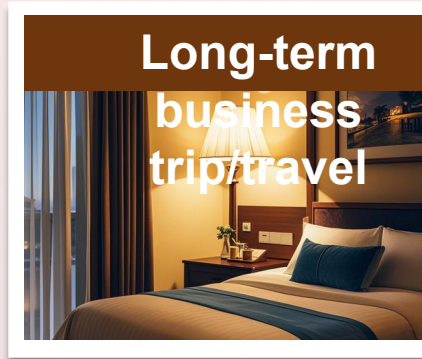
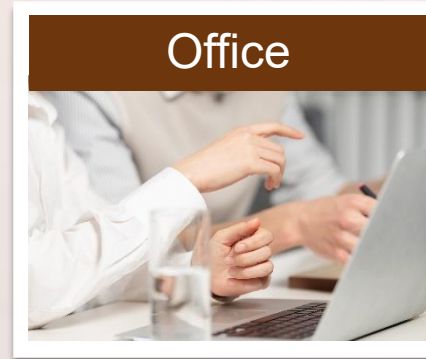
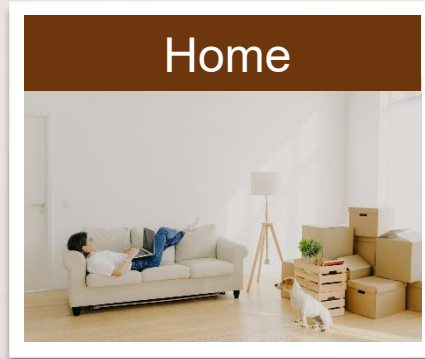


Humidity

- ① <40%——Dry
- ② 40%-60%——Comfortable
- ③ >60%——Muggy (prone to bacterial growth)

- ① Excellent: 0-35µg/m³
- ② Good: 35-75µg/m³
- ③ Lightly Polluted 75-115µg/m³
- ④ Moderately Polluted 115-150µg/m³
- ⑤ Heavily Polluted 150-250µg/m³
- ⑥ Severely Polluted 250µg/m³

Applicable Scenarios — Versatile for Various Scenarios



Target user-common people

People with sleep disorders

Negative oxygen ion can promote the transformation of serotonin to melatonin, but melatonin is conducive to regulating the sleep-awake cycle and help people fall asleep easier and maintain good sleep quality.

People prone to allergy

For people who are strongly allergic to pollen, dust, mildew and other allergens in the air, air purifier can reduce allergens and relieve allergic symptoms.

The aged

For people with physical hypofunction and weak respiratory system and cardiovascular system, poor air quality may aggravate their chronic diseases.

People who often work or do activities indoors

e.g.: office staff and students who stay in a confined space for a long time are prone to indoor pollutants.

People with respiratory diseases

e.g.: for people with asthma and chronic obstructive pulmonary disease (COPD), high-quality air is helpful for relieving their illness and symptom.

Families that keep a pet

Hair and scurf of pets may degrade indoor air quality, and air purifier can improve air quality.

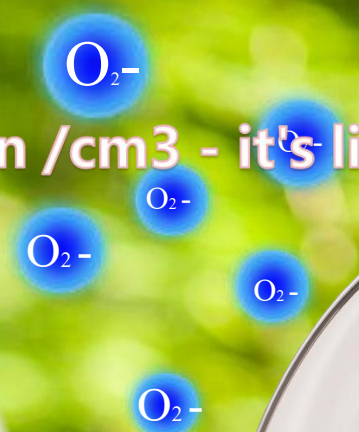
Residents in heavily trafficked areas/near industrial pollution areas

Outdoor air pollutants can go indoors and affect respiratory health.

Residents of newly-decorated houses

Decorative materials may release harmful gases such as formaldehyde and benzene, and air purifier is conducive to lowering their concentration.

A high concentration of negative ions of 200 million /cm³ - it's like being in a forest



Inject air “nutrients” to purify the air

So you don't have to travel far to
bring home the Bama air.

