Features and Benefits



A versatile mood light for bedroom. kids' rooms, and camping,

- Select colors and adjust brightness as needed. - Set a timer for automatic shutdown,



Eliminates viruses and various bacteria By employing a photocatalytic filter and UV LEDs, it efficiently eliminates viruses and hacteria

(98% E. coli, 99% Staphylococcus aureus).



G Equipped with a 13-grade HEPA filter for allergy particle capture. A filter that efficiently removes various allergy triggers.

 Up to 99.9% removal of ultrafine dust with a 13-grade HEPA filter.

- Easily track real-time air quality in your space.

indudingPM2.5, PM10, humidity, temperature,

carbon dioxide (CO2), and total volatile organic

compounds (TVOC), all from your smartphone.



G Equipped with a high-capacity 3,600mAh battery.

Operates the air purification function for about 5 hours on high-capacity battery at 2nd fan speed



Enjoy convenience from anywhere, anytime with smart IoT capabilities Our IoT wireless server, utilizing Wi-Fi, is

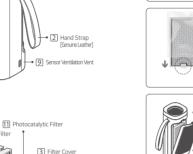
hosted in the United States, ensuring global accessibility. It seamlessly switches to Bluetooth in Wi-Fi-deprived locations,



Designed in Korea, and handcrafted by the people of Korea, a product proudly 'Made in Korea'. Crafted in Korea by the finest local designers, a genuine 'Made in Korea' product.

Product Components and Functions Charging Port 🚺 🕶 Mood Light 4 -Power and Key Unlock Button 5 • Fan Speed Control 6 Mood Light Color Selection 7 Mood Light Brightness Adjustment 8 •

HEPA Filter



Secure the bottom of the filter cover onto the product and close it.

the handle facing up,

Press and slightly pull the hooks

on the filter cover at the back of

Remove the protective plastic

from the filter and insert it with

the product to detach it.

/!\ Caution

Filter Installation

- Before using the product, ensure that you have removed the protective plastic from the filter. Failure to do so can cause product malfunctions. - When attaching the filter, be mindful of its orientation to prevent ₩ product malfunctions and damage,



The charging cable is inside the box under the product.

 The appearance or components of the product may vary depending on the model,

How To Use



pressing and holding Power Button ① for 3 seconds. A long press of the Power Button turns the power on or off, and a short press unlocks the keys.

※ Important notes

 If there's no button touch for 10 seconds, all buttons except the Power Button will automatically lock. A short press of the Power Button will unlock the touch buttons, Upon starting the operation, allow 1 minute for sensor stabilization. After sensor stabilization, the app will display air quality status.



Each time you press the Mood Lamp Button (3), the mood lamp color will cycle through the following sequence: White → Red → Orange → Yellow → Green → Blue → Indigo → Purple → OFF

Each time you touch the Brightness Adjustment Button (4), the mood lamp brightness cycles through Level 3 → Level 2 → Level 1 in sequence.

The mood lamp can be turned off, allowing the air purification function to operate independently

- To turn off the mood lamp, please refer to the description in the previous item (Item 3),

Mood Light: When the TVOC, CO2 and fine dust levels are in the [Bad/Very Bad] range, it will flash red for about 20 seconds, and then remain on. It will turn off when the values change to [Good].

LED Status Indicators for the MC310

Operating Status	Color	Indicator Lights
Pairing	Blue	Blinking
In Use	Blue	Lit
Ising the Device While Charging	Purple	Lit
Charging	Red	Lit
Charging Complete	Light Off	Off
TVOC, CO2, Fine Dust - Bad	Red	After Blinking, Steady On

Monitoring Air Quality

Through the ZeroWell app, you can perform real-time monitoring of air quality in your living space across four key factors; fine dust, humidity, temperature, and Total Volatile Organic Compounds (TVOC).

1 Fine Dust

	i inc buo	-					
Fir	ie Dust Leve	ls Guid	dance				
PN 0	110	30		80		150	
PN	Very good 12.5		good		bad		very bad
0		15		35		75	
_	Very good		good		bad		very bad

2. Temperature

온도 측정 범위 : 어플 상에서 (0~50℃) 표시

3. Humidity

습도 측정 범위 : 어플 상에서 (0 ~ 100%) 표시

Virus Activity Mold Propagation



Optimal Humidity Drv Air Less than 40% 55% - **60%** - 65%

More than 70%

It fosters dust mite and mold

release of harmful chemicals,

growth and boosts the

When humidity is high

It can exacerbate atopic dermatitis and trigger respiratory infections like the flu and the common cold,

When humidity is low

츠

5 Carbon Dioxide (CO₂)

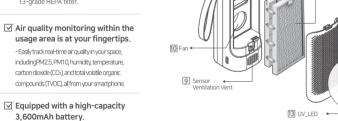
Carbon dioxide concentration serves as a crucial indicator for assessing indoor air quality. Exceeding the recommended levels can be detrimental to human health, highlighting the need for adequate ventilation.

정범위					
	600	1000	1500	2000	1
good :02 알람 해제	norm	ally Cau <co2 td="" 알루<=""><th>ution</th><th>bad</th><td>very bad</td></co2>	ution	bad	very bad
		CO2 수치	가 1000 PPM	I(주의) 단계에서	
Total \	/olatile C	부터 LED Drganic Co	점멸 알람이 실 mpount	실행 됩니다 <u>.</u> ds (TVOC)	

TVOC (Total Volatile Organic Compounds) refers to hydrocarbon compounds found in the atmosphere that can evaporate, emitting unpleasant odors and ozone. These volatile substances, in the form of gases, can disrupt the nervous system when exposed through skin contact or inhalation. Compounds such as benzene, formaldehyde, toluene, xylene, ethylene, styrene, and acetaldehyde are included in this category.

The term "volatile" signifies that these are chemical substances that enter the body daily through the air we breathe, and "organic" indicates their carbon-based nature. Prolonged exposure to Total Volatile Organic Compounds (TVOC) can lead to cancer and other chronic illnesses. Therefore, it is essential to be particularly cautious about TVOC

측정범위							
0	100		200	300		400	
Very good		good	norn	nally	bad		very b



12 HEPA Filter

13 UV_LED

Product Setup

 Charging Port 	Charge by using the USB-C type charging cable
2 Hand Strap [Genuine Leather]	Hand Strap with Genuine Leather
3 Filter Cover	Filter Cover Opens for Filter Detachment
4 Mood Light	Can be used as a bedside or nursing light
5 Power	Can be used as a bedside or nursing light
6 Fan Speed Control	Long touch for 3 seconds to power ON/OFF. Short touch
	for key lock/release. Change fan speed for airflow
	adjustment (low noise, 1, 2, 3, Auto, Off).
7 Mood Light Color Selection	Select mood light color (white, red, orange, yellow, green,
	blue, indigo, purple, Off).
8 Mood Light Brightness Adjustment	Adjust mood light brightness (3, 2, 1).
9 Sensor Ventilation Vent	Fine Dust Sensor Vent
10 Fan	Utilizes High-Performance Low-Noise BLDC Blower Fan
11 Photocatalytic Filter	Utilizes UV light to generate plasma for virus and

bacteria disinfection.

C Blower Fan Utilizes UV light to generate plasma for virus and

HEPA Filter with 13-Grade Allergen Filtration

Control ON/OFF only via the dedicated app (Initially set to OFF)



How to Use IoT Features

Installing the ZeroWell IoT app on your smartphone enhances the convenience of using the product

How to Install the Zerowell Dedicated App

Search for 'Zerowell' on your smartphone's Google Play Store or Apple App Store, and then proceed with the installation. For detailed usage instructions, please consult the application's user guide.



How to Pair

Pairing is the process of registering devices with each other using Wi-Fi. Once pairing is complete, you won't need to repeat it,

% When initially connecting to Wi-Fi, be sure to connect to the 2,4GHz band, % For the initial connection, make sure the product is powered off,

Simultaneously press and hold the ♀?+①

button to reset.

2 In the ZeroWell app. choose 'Add Device.'

3 Select 'Auto Scan.'

4 Choose the detected product.

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Connection Precautions

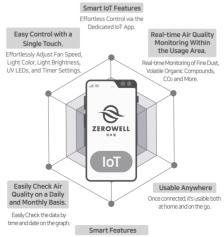
- During the initial setup, place the router, product, and smartphone close together for pairing.
- If pairing is not successful, try rebooting the router and reconnecting.
- ※ 참고: 완전 방전 후에는 기기와 휴대폰 페어링이 취소됩니다.

충전 후 제품의 📽 + ()) 버튼을 동시에 눌러 초기화(무드램프가 점멸) 시킨 후

휴대폰과 다시 페어링 해주세요.

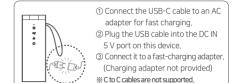
Zerowell IoT Features

Use the following functions with the smartphone connected to the product.



Customize product operation and control based on your lifestyle.

Charging the Battery and Safety Precautions



- The fast charging time is approximately 4 hours.
- Operating time is roughly 5 hours on the 2nd fan speed when the product is fully charged,
- Operating time is roughly 5 hours on the 2nd fan speed when the product is fully charged.
- In cold environments, operating time may significantly decrease, or the product may not function based on the charge level,
- As batteries are consumable, their usage time naturally decreases over time, - If usage time drops by more than half compared to the time of purchase, please contact Zerowell Customer Service, (Paid replacement after the
- warranty period)
- When first using the product, the battery may not be fully charged, so be sure to charge it completely before use.

Checking the Battery Charging Status

- O attery charging begins when the AC adapter connected to the power outlet is connected to this device,
- Verify the charging status using the power indicator light,
- O The device will automatically stop when the battery level drops below 15% to protect the battery.
- O The battery level cannot be checked while charging,



O You can check the battery status in the Zerowell app (the actual battery level may vary)."

Precautions

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- O An AC adapter must be purchased separately, and it's crucial to use a certified AC adapter (5V. 2A).
- O The use of unauthorized chargers can result in malfunctions and variable charging times.
- O When connected to a car's USB port or a PC USB port, the lower current can lead to slower charging or the product not functioning, and charging may be limited depending on the vehicle.
- O Charging may be automatically stopped for safety if the battery temperature becomes too high or too low.
- O Do not leave the product in direct sunlight near a glass window or inside a car where the internal temperature can rise significantly due to direct sunlight. Also, avoid placing the product on blankets, heaters, or carpets for extended periods.
- O Overheating can cause exterior deformations, malfunctions, and even battery explosions.
- O If you plan to use the product after extended storage, make sure to fully charge it before use.
- O When requesting service for battery-related issues, please include the product charger.

※ 참고 : 기기의 주위 온도가 45°C 이상 되면 제품 보호를 위해 전원이 자동으로 차단됩니다.

How to Maintain the Product

Cleaning and Filter Replacement Guidelines

The filter replacement frequency may vary based on the usage environment.



Avoid spraying water directly

Contaminated filters can

result in increased noise,

on the filter.

Before cleaning and replacing the filter, always power off the product.



Refrain from washing the main u and filter with water, as it may reduce the filter's lifespan,



Filters are consumable items, and Replacement filters are even during the warranty period. available for purchase on the they should be replaced when Zerowell online store, their lifespan is depleted,

How to Clean the Filter



1 Remove the product's 2 Use a vacuum cleaner or a soft brush to remove dust from the air filter. filter cove

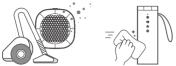
How to Replace the Filter

1 Remove the product's filter cover and replace the filter. 2 After completing the filter replacement in the app, disable the filter replacement notification.

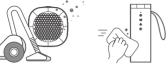
- In the ZeroWell app's filter management menu, press the 'Filter Replacement' button to deactivate the notification. Disabling the filter replacement notification will reset the notification time and filter remaining quantity.

How to Maintain the Product

How to Clean the Exterior



1 Use a vacuum cleaner or an air blower to eliminate dust from



2 Gently wipe the product's exterior with a soft cloth the air intake and exhaust openings,

Precautions



O Do not use alkaline detergents to clean the product. • Avoid cleaning the product's surface or applying stickers using sulfuric acid, hydrochloric acid, or organic solvents (such as thinner, kerosene, acetone, etc.), O Water entering the product's interior may cause malfunctions.

How to Store the Product

When not using the product for an extended period, store it in a shaded, dry place away from direct sunlight.



1 Operating the product for over 2 When the product is active, unplug 1 hour on a clear day can help the charging cable and hold the prevent moisture and mold inside. power button for over 3 seconds to turn it off completely.



4 Avoid storage in high-temperature or humid areas or places exposed to direct sunlight.



5 For long-term storage, fully charge the product every 6 months

Safety Precautions

For your safety and the proper use of the product, please read the following safety precautions in full before using the product to prevent any unexpected risks or damage,

Safety Precautions for Installation

O Placing the product in a vibrating or uneven location may increase noise or cause the product to shake

O Avoid installing the product on uneven or sloping surfaces to prevent potential damage. O When using the product in a vehicle, ensure it is securely fastened in a cup holder of an appropriate size to prevent it from falling and causing damage O Do not place the product in areas with flammable gas leaks, industrial oils, or high levels of metallic dust, as it may result in product malfunctions and fire hazards. O Keep the product away from high-temperature environments, direct sunlight near car windows, blankets, electric heating pads, stoves, or carpets for extended periods to prevent deformation, malfunctions, or battery explosions.

O Avoid placing the product in high-temperature and humid environments, such as saunas, under blankets, near swimming pools, in bathrooms, or places with high humidity, as this can lead to deformations, malfunctions, or battery explosions. O Ensure that moisture emitted by humidifiers does not come into direct contact with the product to prevent electric shock, fire, and malfunctions. O Keep the product away from TVs, audio devices, or electronic equipment in vehicles to avoid interference with these devices,

Product Usage Safety Precautions

- O Do not insert fingers, metal objects, or flammable materials into the product's intake, exhaust, or sensor vents to prevent malfunctions and damage, O Avoid placing containers such as vases, pots, cups, cosmetics, medications, or liquids on top of the product to reduce the risk of fire, electric shock,
- or objects falling, O People with disabilities or limited experience and knowledge, including children, should not use the product without supervision or guidance from a responsible
- quardian to avoid product malfunctions, injuries, or fire hazards, O Do not disassemble, tamper with, or damage the product, its battery, or components. Refrain from using the product if it is in a broken state, as it may lead to injuries, fires, or electric shock,
- O Refrain from operating the product during severe thunderstorms or lightning storms, and disconnect the power cord and charger to prevent injuries and fires. O Avoid using the product while driving, walking, or in motion, as it may result in injuries or safety incidents.

O Do not use or charge the product when it is wet to prevent battery ignition, leaks, or explosions. O Ensure that foreign materials do not enter the charging port to prevent product malfunctions and fires. O Do not attempt to disassemble, repair, or modify the product yourself. Leave such tasks to Zerowell's service center to prevent electric shock, injuries, or fires. O If the product is submerged, stop using it and contact Zerowell's service center, as this may lead to product malfunctions and electric shock.

O Avoid using or storing the product near flammable materials, combustibles, or ignition sources, as it may result in explosions or fires,

O If the product emits unusual sounds, odors, or smoke, discontinue use immediately and contact Zerowell's service center, as it may lead to fires, O Ensure that the charging cable is not crushed by heavy objects or excessively bent to avoid electric shock or fires. Also, prevent pets and animals from damaging it. O Do not insert foreign materials into the product when the cover is open, as it

may result in product malfunctions and damage, O If the product will not be used for an extended period, disconnect the charging cable from the product to avoid electric shock or fires.

O Be cautious to prevent the product from being stepped on or knocked over, as it may lead to product malfunctions, injuries, fires, and electric shock. O Avoid using the product for anything other than its intended purpose, as it

can lead to product malfunctions, damage, fires, or electric shocks, O Prevent any foreign substances, such as water, coffee, or soda, from entering

the product to avoid the risk of fire, electric shock, or product malfunctions,

Battery Usage Safety Precautions

O This product is equipped with a built-in battery. Do not attempt to disassemble or replace the battery by yourself. Always seek professional assistance from the Zerowell service center to prevent harm, electric shock, or damage to the product, O Use only authorized, genuine batteries and charging accessories provided by our company to minimize the risk of battery malfunctions, ignition, or explosions,

UV LED Safety Precautions

O This product utilizes UV LEDs, Do not attempt to disassemble or replace the UV LEDs on your own, as doing so may result in injury, electric shock, or damage to the product, UV LED replacement should be conducted exclusively by the ZeroWell service center.

O When dust or foreign materials enter the UV LEDs, please use a soft doth for deaning, O If there is clear damage to the UV LEDs, do not operate the product.

O Utilizing the device in abnormal ways or with a damaged filter cover can lead to the emission of harmful UV radiation

O Even in small quantities, UV radiation can be harmful to the eves and skin. O Always turn off the product prior to conducting cleaning and other maintenance procedures,

Precautions for Disposal

O Dispose of the packaging material (plastic) in a manner that prevents children from handling it, as it could present a choking hazard.

Product Details

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Product Name & Model Number	Baby Safe Air Doctor Smart with $\ensuremath{\text{CO}_2}$ Sensor (ZWA-MC310)	
Color	White, Pink, Green, Blue, Red, Light Brown	
Product Size (WxDxH)	67 x 67 x 193(mm)	
Weight	350g	
Air Purification Capacity (CADR) 12m³/ h	
Rated Voltage	USB Type-C DC 5V 2A	
Power Consumption	7.6W	
Energy Efficiency Rating	Not Applicable	
Fan Speed	Low Noise - Level 1 - Level 2 - Level 3	
Battery	ntegrated Battery (3,600mAh)	
Dust Sensor	Portable PM2.5 / PM10	
Temperature and Humidity Sensors	Humidity: Less than 20% to 90%	
Gas Sensor	TVOC Sensor / CO2 Sensor	
Smart Device Connectivity	/ 와Dual Mode: Wi-Fi / Bluetooth	
Manufacturer	Zerowell Inc.	
Country of Manufacture	South Korea	
Quality Assurance Standards	In case of consumer damages due to defects or faults, compensation can be sought in accordance with the Consumer Dispute Resolution Standards (Article 16 of the Consumer Basic Act).	
Warranty Claim and Customer Service Center	Zerowell Customer Service Center +1)408-529-6726	

Product Warranty Certificate

Regarding Services

At ZeroWell Inc., we offer warranties for our products based on the Consumer Dispute Resolution Standards (Fair Trade Commission Regulations) specific to each item. For service requests, please contact us at +1)408-529-6726. We aim to provide compensation eligibility and details within 7 days from the request date, and resolve compensation claims within 14 days from the notification date.

Product Name		Model Number	
Date of Purchase	(YYYY-MM-DD)	Serial No.	
Place of Purchase		Purchase Price	

Free Repair Service

Types of Consumer Damage	Within the Warranty Period	After the Warra
For significant performance or functional defects within 10 days of purchase under normal use,	Product Exchange or Purchase Refund	N/A
For significant performance or functional defects within one month of purchase under normal use.	Product Exchange or Free Repair	N/A
Transportation and installation damage at purchase.	Product Exchange	N/A
Replacement malfunction within one month.	Purchase Refund	N/A
When replacement is impossible.	Purchase Refund	N/A
Same defect occurrence twice within warranty.	Free Repair	Paid Repai
Same defect occurs for the third time within warranty.	Product Exchange or Purchase Refund	Paid Repai
Different defects five times within warranty.	Product Exchange or Purchase Refund	Paid Repai
Lost product during consumer repair.	Product.Exchange.or.Purchase.Refund	Refund calculate adding 10% to the depreciation arms
Repair impossible due to lack of parts within retention period.	ProductExchange or Purchase Refund	Refund calculate 5% to the remain after fixed depres
Spare parts available but still unable to repair,	Product Exchange or Purchase Refund	Refund aft depreciation

Paid Repair Service In case of non-defect

O Handling without disassembly or reinstallation due to poor installation by the seller. Request for service due to inadequate installation resulting from product relocation,

moving, etc., consumer's inexperienced installation, reinstallation after initial consumer-installed installation, and internal cleaning service.

In case of consumer negligence causing a malfunction.

- O Due to mishandling, improper repair, or modification by the consumer,
- O Malfunction caused by incorrect use of electrical capacity.
- O Repairs conducted by individuals not affiliated with our service subcontractors or partner companies
- Malfunction or damage due to external impact, dropping, etc.
- O Malfunction caused by the use of consumables or optional items not specified by us. O Malfunction due to failure to adhere to the 'cautions' and 'guidelines' in the user manual."

In all other cases

O In case of malfunctions caused by acts of nature (lightning, fire, vandalism, flooding, etc.). O When consumable parts have reached the end of their lifespan (e.g., filters),

In cases of consumer-caused malfunctions.

In cases where repair is impossible	Product exchange after collecting the fee for paid repair.	Product exchange after of the fee for paid repair with deprecial
In cases where repair is possible	Paid Repair	Paid Repair

* Please note that service requests in non-fault cases may result in charges. Be sure to read the user manual, % his warranty is valid only in Korea and will not be reissued, so please keep it alongside the user manual.





3 Store the product in a shaded location, securely packed to prevent dust and foreign



6 After extended storage, ensure it's fully charged before use.

MFMO



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We are committed to crafting superior

ZEROWELL products with integrity and trust.

ZEROWELL **Air Doctor** babysafe

Instructions for Use manual

(*ZWA-MC310*

FCC ID: 2BC63-ZWA-MC310W

 \bigcirc

GOOD DESIGN KOREA



precautions are intended to ensure user safety and prevent property damage. Please be sure to read and use them correctly.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two

conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. — Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/TV technician for help.

[47 CFR 15.21]Pursuant to Section 15.21 of the FCC rules, changes or modifications to a Product by the user that are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The device meets the FCC Radio Frequency Emission Guidelines. Information on the product is on file with the FCC and can be found by inputting such Product's FCC ID (which can be found on the device) into the FCC ID Search form available at https://www.fcc.gov/oet/ea/fccid.

Product : Air Doctor babysafe Model : ZWA-MC310W Input : DC 5.0V (Battery) FCC ID : 2BC63-ZWA-MC310W included contains FCC ID : 2ANDL-WBR3

Frequency : 2 402 ~ 2 480 MHz (BLE) / 2 412 ~ 2 462 MHz (WLAN 2G)