

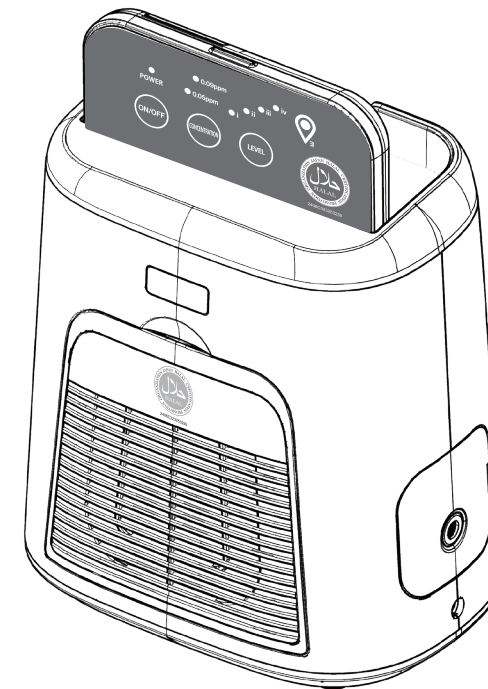


Compact ozone generator

DeAlot

TM-2.0C

Instruction manual



manufacturer DePort Co., Ltd.

Address 1-407,Kamiyashiro,Meito-ku,Nagoya-shi,Aichi ,Japan

Manufacturer DePort Co., Ltd.

Thank you for purchasing this product.

Please read this instruction manual carefully before use to ensure proper use of the device. Please save this instruction manual in a safe place where you can refer to it at any time.

Table of contents

Introduction	----- 2
<ul style="list-style-type: none"> • Device features • What is ozone? • About the notation in the instruction manual 	
Names and functions of each part	----- 3 ~ 4
<ul style="list-style-type: none"> • Body • control panel • accessories 	
For safe use	----- 5 ~ 8
<ul style="list-style-type: none"> • Precautions for use • Notes on power supply • Installation precautions 	
Installing/preparing the product	----- 9
<ul style="list-style-type: none"> • Setting up • Wall-mounted installation 	
How to use	----- 10 ~ 13
<ul style="list-style-type: none"> • basic operation <ul style="list-style-type: none"> ▪ setting • Canceling Concentration settings • Panel lock • Level setting • Proximity sensor • Operation lamp 	
Care	----- 14 ~ 18
<ul style="list-style-type: none"> • Air outlet and intake filter • Generator • Generator mounting stand • Ozone concentration sensor • Care guide table 	
if you thought it was Malfunctions.	----- 19 ~ 20
check the product specifications	----- 21
Disposal	----- 22

Introduction

[Device features]

This product is a device that generates low concentration ozone gas. It can sterilize and deodorize using oxygen contained in the air. After reactions such as sterilization and deodorization, it returns to harmless oxygen, leaving no residue.

[What is Ozone]

O₃ consisting of three oxygen atoms(O). Ozone concentration in nature is 0.01ppm. Although it is a small amount at ~ 0.03ppm, it is always with us and is not a unique substance.

The ozone layer, as it is commonly known, exists in the stratosphere 20 to 50 km above the Earth and protects our lives

Ozone has the second strongest oxidizing power after fluorine, and even at low concentrations that do not affect the human body, it is effective in sterilizing viruses and bacteria, as well as acting on odorous substances and deodorizing. Additionally, after the reaction, it returns to oxygen(O₂), making it a substance that is kind to both people and the environment.

This product generates ozone with these properties at the best concentration to disinfect and deodorize.

[About the notation in the instruction manual]

This manual contains information to help you use the product correctly and to prevent danger to people and damage to property. The display symbols and their meanings are as follows.

level of danger



warning

This symbol indicates information that, if ignored and handled incorrectly, may result in death or serious injury.



caution

This symbol indicates information that may result in minor injury if ignored and handled incorrectly.

Note

This symbol indicates something that may result in property damage if ignored and handled incorrectly.

Meaning of



Indicates a prohibited act.



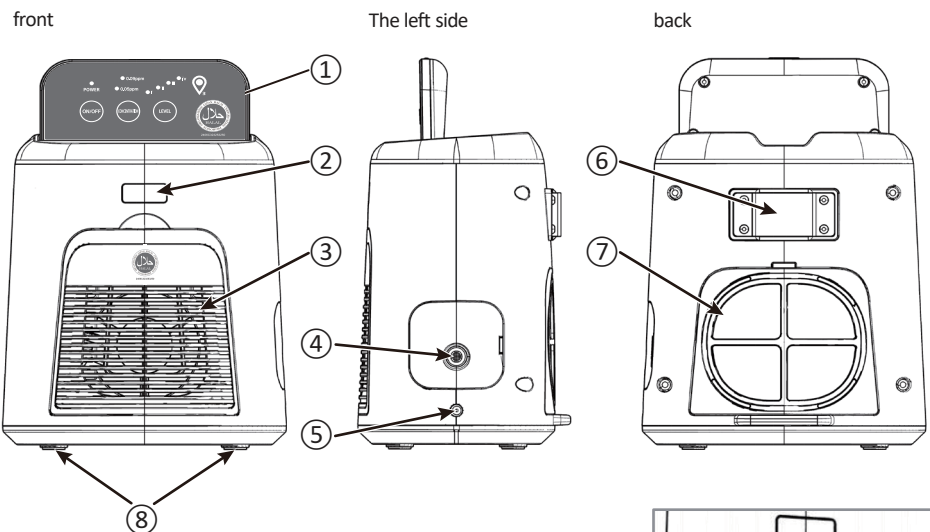
Indicates content that urges caution or warning.



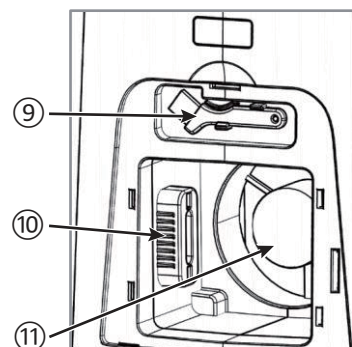
Indicates the content of forced actions or instructions.

Names and functions of each part

[Body]



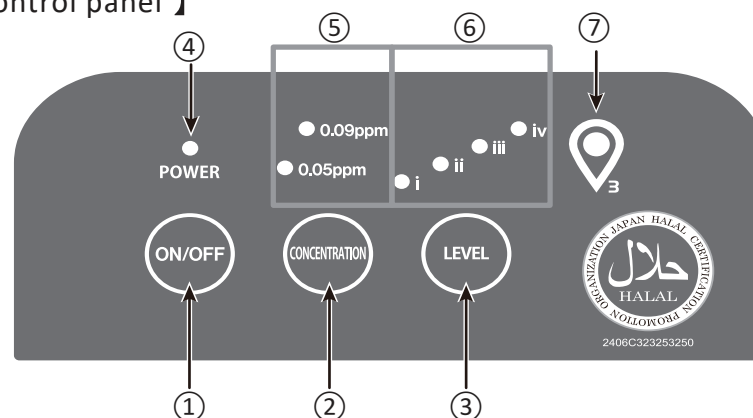
- ① Operation panel
Perform driving operations.
- ② Proximity sensor
Detects obstructions.
- ③ Air outlet
Ozone gas is released.
- ④ Ozone concentration sensor
Measures indoor ozone concentration.
- ⑤ AC adapter connector
- ⑥ Mounting plate
This is a metal fitting used when installing on a wall.
- ⑦ Intake filter
It is an air intake port.
- ⑧ Rubber feet



▼ With the front air outlet removed

- ⑨ Cleaning brush
A brush for cleaning generators.
- ⑩ Generator
Generates ozone.
- ⑪ Air blower fan
Air is taken in from the back and blown out from the front.

【 Control panel 】



ON/OFF

- ① "ON/OFF" button
The power of the product turns on and off.

CONCENTRATION

- ② "Concentration" button
Press to toggle the concentration upper limit setting.
for about 5 seconds to turn panel lock on or off. Press and hold for seconds or more to cancel the concentration upper limit setting.

LEVEL

- ③ "Level" button
The ozone generation level will change.
The level switches between

POWER

- ④ Power lamp
The lamp lights up while the power is on.

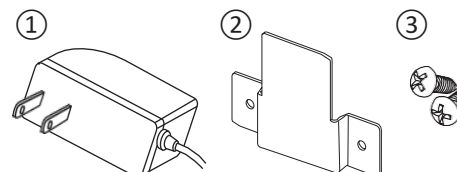
- ⑤ Concentration setting indicator
The ozone concentration upper limit setting lamp lights up.
While the concentration upper limit setting is being canceled, both the 0.05ppm and 0.09ppm lamps will light up.

3

- ⑥ Ozone generation level display
The ozone generation level set value lamp lights up.

- ⑦ Operation lamp
The operating status is indicated by each color of the lamp.

【 accessories 】




- ① AC adapter
- ② Wall mounting plate
When installing on a wall, attach it to the wall.
- ③ Wood screws (×2)
Used when fixing the wall mounting plate to the wall.

For safe use







This explains the dangers and their severity that may occur if this product is handled incorrectly. To ensure safe use, please be sure to observe the following precautions.

[Notes on use]





warning

<p>Do not splash water on the product or wash it with water.</p>  It may cause malfunction or electrical leakage.	<p>Do not use in humid or dusty locations.</p>  It may cause fire or electric shock.
<p>Do not disassemble, repair or modify this product.</p>  It may cause fire or electric shock.	<p>Do not put the following items on the product</p> <ul style="list-style-type: none"> • flammable gas • explosive gas • detergent • Alcohol etc. <p>Doing so may cause a fire or malfunction.</p>
<p>Do not block the air intake or air outlet</p>  Not being able to suck in or blow out air may cause a fire or malfunction.	
<p>Do not place anything on top of this product.</p>  By falling, the air intake and Doing so may block the exit and cause a fire or malfunction.	<p>If a gas leak occurs, such as city gas or LP gas, turn off the power.</p>  This may cause a fire or malfunction.

Note








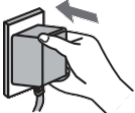
<p>Do not move the product while it is operating.</p>  There is a risk of the product falling or tipping over.	<p>Do not drop, topple over, or subject to impact .</p>  Doing so may cause damage, resulting in injury or malfunction .
<p>Do not bring your mouth or nose close to the air outlet while ozone is being generated.</p> <p>It may harm your health.</p> 	<p>If you feel a strong pungent odor during use , immediately turn off the power</p>  Continuing to use it may harm your health . Stop using it and ventilate it .
<p>Do not operate with the air outlet or intake filter removed.</p>  If you touch the exposed blades of the fan, it may cause injury or malfunction.	<p>When cleaning, be sure to turn off the power of the product.</p>  Doing so may cause electric shock.

Note


<p>Do not operate with wet hands</p>  This may cause malfunction.	<p>Noise may occur when used near a TV or display.</p>  If noise occurs, move the installation location.
<p>When cleaning, do not use the following items.</p> <ul style="list-style-type: none"> • thinner • benzine • gasoline 	<p>Clean the intake filter and outlet frequently.</p>  Accumulation of dust can interfere with air intake and blowout, leading to malfunctions and reduced performance.

[Notes on power supply]

warning


<p>Do not use by connecting to an outlet other than rated Voltages.</p> <p> cause ignition, resulting in a fire or malfunction .</p>	<p>Do not pull the cord when disconnecting the AC adapter</p> <p> Doing so may cause the wire to break, resulting in fire or electric shock .</p>
<p>Do not do the following things to the AC adapter or cord.</p> <ul style="list-style-type: none"> • Hurt • Modify • Pull • Forcibly bend • Putting heavy objects on top • Move closer to heat equipment. • Tightly bundle • Tiehurt <p> Using a damaged power cord may cause fire or electric shock.</p>	<p>Do not secure the cord with nails, pins, etc.</p> <p> Failure to do so may cause damage, resulting in fire or electric shock.</p>
	<p>Do not connect or disconnect the AC adapter with wet hands.</p> <p> Doing so may cause electric shock or injury.</p>
<p>Regularly remove dust from the AC adapter.</p> <p> Accumulated dust may cause a fire.</p>	<p>the AC adapter firmly all the way to its base.</p> <p>Doing so may cause fire or electric shock due to ignition.</p> <p> </p>

Note





<p>Do not use AC adapters other than those supplied.</p> <p> Doing so may cause fire or malfunction.</p>

[Installation precautions]

warning

<p>Do not install it where small children can reach it.</p> <p> Doing so may cause an accident or injury.</p>
--

Note

<p>Do not install it in the following locations.</p> <ul style="list-style-type: none"> • Near a place where fire is used • Places with high temperatures of 40 degree or higher. • Places exposed to direct sunlight • Places where oil gets attached dusty place • Places exposed to rain and wind • Places where there is a risk of freezing • Sloped locations or unstable locations that vibrate <p> Doing so may cause a fire or malfunction.</p>	<p>Do not use if the outlet or wiring equipment exceeds its rating.</p> <p> Connecting more than the rated power outlet may generate heat and cause a fire.</p> <p></p>
	<p>Do not install in an unstable location</p> <p> Dropping or toppling may cause injury or malfunction.</p>

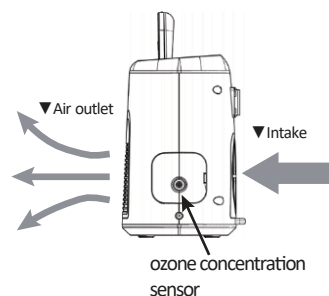
Installing/preparing the product

[Standing installation]

Please install it on a level and stable place.

Air is taken in through the intake filter on the back, and ozone gas is released through the outlet on the front. Please install it in a place where there are no obstructions that will prevent ozone from dispersing or inhaling air.

If the ozone concentration sensor is blocked, ozone concentration cannot be measured correctly and the amount of ozone generated may increase .



[Wall-mounted installation]

1. Attach the wall mounting plate to the wall

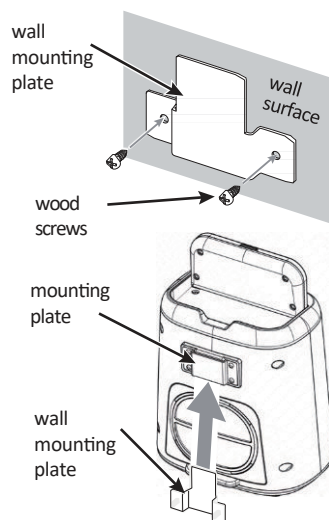
Secure the included wall mounting plate to the wall with wood screws. Choose a wall that is strong enough.

2. Insert the product into the wall mounting plate

Insert the product's mounting plate from above into the wall mounting plate installed on the wall. Make sure to insert it all the way.

If installed in a high position, it may be difficult to see the operation panel due to the reflection of lighting. Adjust the operation panel angle .

This product generates ozone through high-pressure discharge. Depending on the installation location, noise may enter radio equipment. In that case, please move to a place where there is no noise .



- Do not install it on a slope or in a place where there is a risk of falling.
- Do not install it where there are obstacles around it.
- Install it in a place where the ozone gas generated will come into direct contact with the human body, animals and plants.
- Install it in a place where it will not be exposed to rain or water splash.
- Install it in a place where you will not trip over the AC adapter or cord.
- Do not use any AC adapter other than the included one.
- Install the AC adapter in a location where it can be easily removed by the customer.
- Do not let the intake filter touch the wall.

How to use

【 basic operation 】

1.Connect the AC adapter

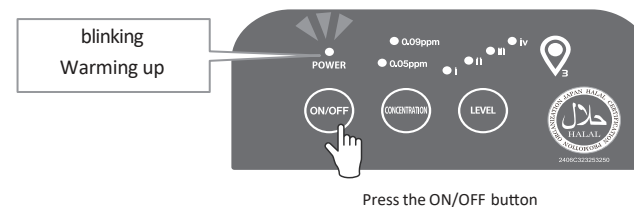
Connect the AC adapter to the AC adapter socket on the left side. When the power is turned on, the power light will blink for 3 minutes and the unit will warm up.

2. Start operation by pressing the "ON/OFF" button

Press the "ON/OFF" button to turn on the power. Ozone generation begins and the blower fan operates. When the power is turned on, the operating light, concentration installation display, and level display lamps will light up. No ozone is generated during warm-up operation.

3.Stop operation with "ON/OFF" button

Press the "ON/OFF" button to turn off the power. Ozone generation will stop and all lamps except the power lamp will turn off. The blower fan will stop 10 seconds after the power is turned off.



Warm-up operation

Warm-up is a period of 3 minutes after power is applied to calibrate the ozone concentration sensor installed in this product. This operation is for correct measurement of ozone concentration.

If the power is off during warm-up, the power light will flash green.

After warming up, the light will turn green.

If the power is turned on during warm-up, the power light will flash green and the operating light will flash blue. During this time, the blower fan will operate, but no ozone will be generated. After warming up, ozone generation starts at the set ozone generation level.



[Concentration setting]

This product is equipped with an ozone concentration sensor and controls ozone generation according to the measured ozone concentration. Concentration setting is the ozone concentration setting that stops ozone generation.

Select Concentration setting

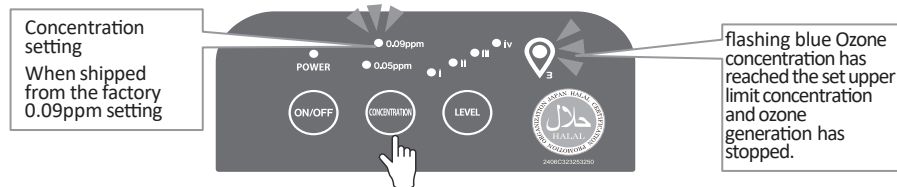
Each time you press the "Concentration" button, the 0.05ppm and 0.09ppm lamps will light up and the setting will change.

- When the ozone concentration reaches the set upper limit concentration, ozone generation will be stopped.
- When the ozone concentration reaches the resume concentration, ozone generation will resume.
- The blower fan continues to operate even when ozone generation is stopped.

Concentration setting	Setting upper limit concentration	resume concentration
0.05ppm	0.047ppm	0.040ppm
0.09ppm	0.090ppm	0.070ppm

▲ Ozone stop

▲ Ozone generation



▲ Press the "Concentration" button and select the Concentration setting

[Cancel Concentration setting]

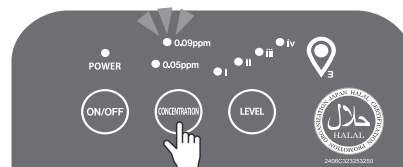
This is a setting that cancels the concentration setting and does not control ozone generation and stop based on ozone concentration.

Cancel (no Concentration control)

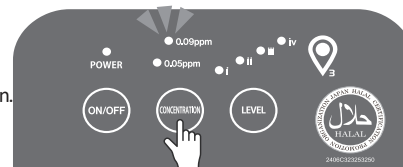
If you press and hold the "Concentration" button for more than 8 seconds, both the 0.05ppm and 0.09ppm lamps will light up and the concentration setting will be canceled. If the AC adapter is disconnected while the concentration setting is being canceled, the canceled state will not be maintained even if the AC adapter is connected again and the power is turned on.

Restoring Concentration settings (controlling Concentration)

With the Concentration setting canceled, press the "Concentration" button. The concentration returns to the state before canceling the concentration setting, and the value returns to the concentration controlled state of 0.05ppm or 0.09ppm.



▲ Press and hold the "Concentration" button for more than 8 seconds



▲ Press the "Concentration" button



- While the concentration setting is being canceled, the ozone concentration may become high.

[Panel lock]

This product is equipped with a panel lock function to prevent malfunction. Please use this

Panel lock on/off

Press the "Concentration" button for about 5 seconds to turn on the panel lock. If you press and hold for about 5 seconds, all the lamps on the control panel will turn on. If you release the button while all lamps are lit, the panel lock will be turned on, but the lamps will return to their settings.



▲ Press and hold the "Concentration" button for 3 to 8 seconds or more

▲ Release your hand when all the lamps are lit.

▲ Lamp lighting returns to the setting state even when the panel is locked

- While the panel is locked, all button operations are restricted. If you press a button while the panel is locked, the corresponding lamp will flash once to indicate that the panel is locked.
- To turn off the panel lock, press and hold the "Concentration" button again for about 5 seconds.
- If the AC adapter is disconnected while the panel is locked, the panel lock state will not be maintained even if

[Level setting]

The amount of ozone generated can be set to levels 1 to 4 depending on the size and environment of the room. The amount of ozone generated varies depending on the cycle time of ozone generation time and stop time.

Selection of ozone generation level

Each time you press the "Level" button, the lamp lights up and the level changes as



► Press the "Level" button and select the ozone generation level

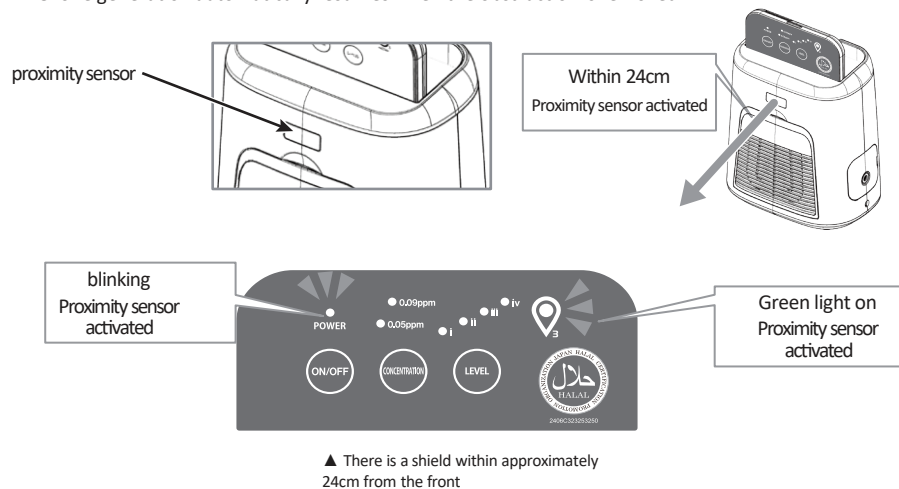
Ozone generation cycle time

Level display	Occurrence time	Stop time	Amount generated
i	4 seconds	16 seconds	10mg/h
ii	8 seconds	12 seconds	20mg/h
iii	6 seconds	4 seconds	30mg/h
iv	continuous operation		50mg/h

[Proximity sensor]

If there is a shield or a person approaches within approximately 24cm from the front of this product, the proximity sensor will activate and stop ozone generation for safety.

- When the ozone generation is stopped due to the operation of the proximity sensor, the operating light will turn green.
- The blower fan continues to operate even when ozone generation is stopped.
- Ozone generation automatically resumes when the obstruction is removed.



[Operation lamp]

This product indicates the operating status by the color and operation of the operation lamp.



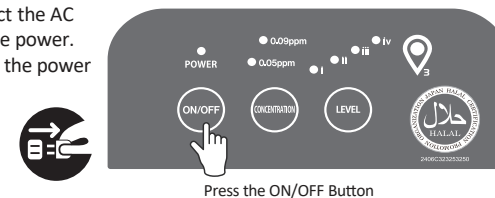
lamp status	control part	Ozone generation	Reference page
Blue light on	Normal operation	Currently occurring	---
flashing blue	Concentration setting	Stopped	11 pages
Green light on	proximity sensor	Stopped	13 pages
yellow light on	Care instructions	Currently occurring	17 pages
Red light on	ozone concentration sensor	Stopped	—

A Red light indicates an error. Please stop using the product and contact the retailer where you purchased it.

How to care

Regular maintenance is required to fully demonstrate the disinfecting and deodorizing effects of this product. Continuing to operate the product with dust or dirt attached may cause malfunction. Please follow the instructions for inspection and maintenance.

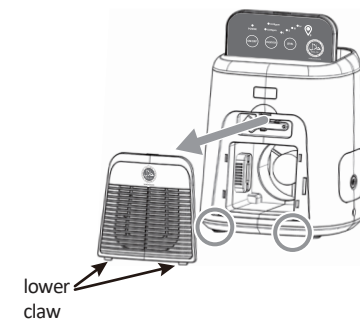
Before cleaning, turn off the power and disconnect the AC adapter. Press the "ON/OFF" button to turn off the power. Please unplug the AC adapter. Be sure to turn off the power when disconnecting the AC adapter.



[Air outlet and intake filter]

1.Cleaning the air outlet

Remove it by hooking your finger on the top of the front air outlet.
Use a vacuum cleaner to suck up any accumulated dust. If there is dust or dirt that cannot be removed with a vacuum cleaner, wash it with water.
After washing, wipe off any moisture and dry completely.
When installing, insert the claw at the bottom of the outlet into the device and then close the top.



2.Cleaning the intake filter

Remove the intake filter on the back using a tool such as a flathead screwdriver.
Use a vacuum cleaner to suck up any accumulated dust. If there is dust or dirt that cannot be removed with a vacuum cleaner, wash it with water.
After washing, wipe off any moisture and dry completely.
When installing, insert the bottom claw into the device and then close the top.



- Do not operate the machine with the air outlet and intake filter removed.

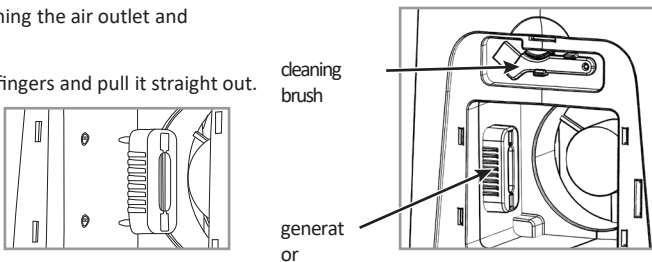
[Ozone generator]

Ozone is generated by discharging. Please perform regular maintenance. Some of the discharge electrodes in the generation section are made of glass. Please be careful when handling.

1. Remove the ozone generator

Follow the instructions for cleaning the air outlet and remove the air outlet.

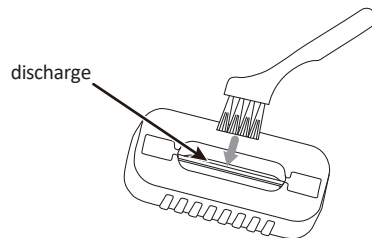
Pinch the generator with your fingers and pull it straight out.



2. Clean with a cleaning brush

Gently brush the surface of the ozone generator with a cleaning brush to remove any deposits.

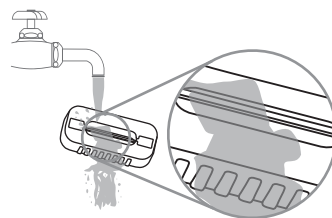
The discharge electrode is made of glass, so please handle it with care.



3. Washing with running water

If dirt and deposits cannot be removed sufficiently with the cleaning brush, clean with running water.

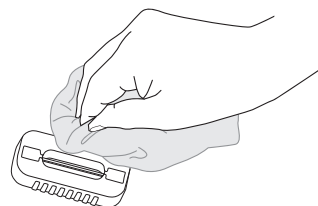
Clean the discharge electrode by gently stroking it with a cleaning brush to remove dirt under running water.



4. Dry completely

After cleaning, wipe off moisture with a soft, dry cloth and dry completely.

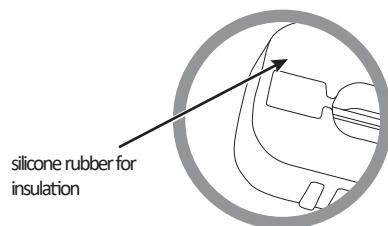
After drying, reinstall it firmly in its original position.



Characteristics of Ozone generator

Insulating silicone rubber and generators may become dull or discolored over time. This is due to the characteristics of the material and is not an abnormal condition.

Although it cannot be removed by cleaning or washing, it does not affect performance. Please use with confidence.



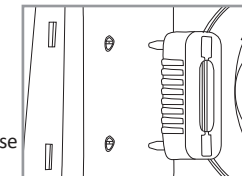
[Around Ozone generator mounting base]

1. Cleaning the ozone generator mount base

Remove the air outlet and ozone generator and clean the ozone generator mount base.

Wipe any dust or dirt off the ozone generator mount base using a soft cloth.

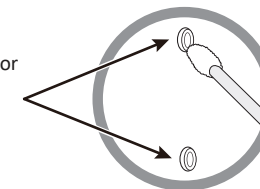
Ozone generator mounting base



2. Cleaning the ozone generator plug

Remove dust and dirt from the ozone generator's plug with a cotton swab.

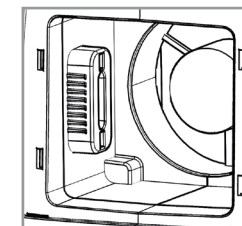
Ozone generator plug



3. Care of the entire area around the generator mount

Dust and dirt tend to accumulate in areas where air flows, such as fans and air intakes.

Wipe away any dust or dirt from this area with a soft cloth.



[Ozone concentration sensor]

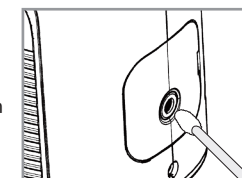
1. Cleaning the ozone concentration sensor

If there is dust or dirt, ozone concentration cannot be measured correctly.

Clean the mesh part of the ozone concentration sensor. Remove dust and dirt with a cotton swab.

Do not use water or alcohol when cleaning.

Ozone Concentration sensor

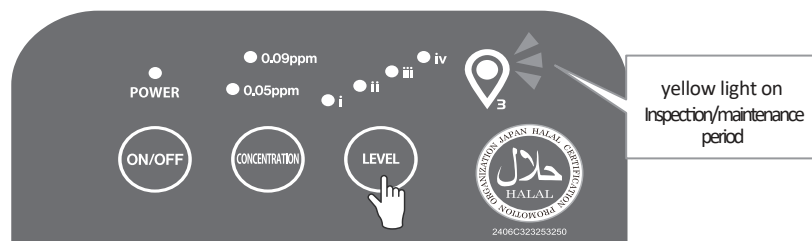


- White deposits may form on the ozone generator. Clean and remove it.
- Do not directly touch floating objects generated during cleaning.
- Be careful not to inhale any floating objects that is generated when cleaning.
- Allow the ozone generator and generator mount to completely dry before installing.
- Insufficient drying may cause electrical leakage or malfunction.
- Applying strong force to the ozone generator's discharge electrode may cause damage or malfunction.
- If the ozone generator plug is clogged with dirt, remove the dirt before installing the ozone generator.

[Care guide table]

Yellow Operation lamp on

the power-on time exceeds 1000 hours, we will notify you when it is time for inspection and maintenance.
If the Operation lamp turns yellow, please check the table below and perform maintenance. After cleaning, press and hold the "Level" button to turn off the yellow lamp.



▲ Long press the "Level" button to cancel

Inspection points	frequency	How to care	Reference page
Ozone generator	A b o u t 1 month	Clean according to the procedure in "Cleaning Ozone generator" .	15 pages
Generator mounting base	A b o u t 1 month	Clean off any adhered dust or dirt using a soft cloth or cotton swab.	16 pages
ozone concentration sensor	Frequently	Remove adhering dust and dirt with a soft cloth or cotton swab.	16 pages
Blower fan	Frequently	Wipe the dust and dirt off with a dry cloth, or dampen a soft cloth with water and a little neutral detergent, and wring it out thoroughly.	---
Air outlet intake filter	Frequently	Remove it from the device and vacuum or wash it with water to remove any dust or dirt that may have adhered to it .	14 pages
Proximity sensor	Frequently	Remove adhering dust and dirt with a soft cloth or cotton swab.	---
External dirt	Frequently	Wipe away any accumulated dust or dirt with a soft cloth dampened with water and a little neutral detergent, and wring it out thoroughly.	---



- When performing inspection or maintenance, be sure to unplug
- Inspection and maintenance times may vary greatly depending on the installation and usage environment .

if you thought it was Malfunctions.

Q1 The power does not turn on.

AC adapter disconnected?

Make sure to plug the AC adapter into the outlet and outlet.

"ON/OFF " button may not be responding .

Check that there is no dirt on the button, and wipe it off with a tightly wrung cloth.

Q2 button does not respond

Is there moisture or dirt on it?

Wipe the button area with a damp cloth that has been wrung out firmly.

Is the panel locked?

Press the "Concentration" button for 3 seconds
Press and hold for

Q3 The sound of Ozone generator has become louder.

Can you confirm the emission of light from Ozone generator?

Ozone generation noise may become louder if Ozone generator is damaged.
If you cannot confirm the emission of light, please contact your retailer or contact us.

Q4 There is an abnormal noise from the blower fan.The noise is loud.

There may be dirt on the fan, or a foreign object may be in contact with the fan blades.

Wipe the dust and dirt off with a dry cloth, or dampen a soft cloth with water and a little neutral detergent, and wring it out thoroughly.

Q5 Air flow is weak

Air intake and exhaust performance may be reduced due to dirt, dust, etc.

Clean the intake filter, air outlet, and blower fan.

Q6 Proximity sensor is not deactivated

Is there dirt on the proximity sensor ?

Remove dust and dirt with a tightly wrung cloth .

Is there a reflective object in front of the proximity sensor ?

24 cm away from the front , The proximity sensor may be activated if there is a reflective object . Please remove reflective objects or change the installation location.

Q7 There is no ozone odor.

Is there dirt or dust on Ozone generator or generator mounting part?

Please clean Ozone generator.
Reference: page 15

Can you confirm the emission of light from Ozone generator?

If you cannot see the light emitting, it may be damaged. Please contact your dealer or contact us.

Is there dirt or dust on the intake filter or air outlet?

Please clean each part.

Is the proximity sensor not working?

shield within approximately remove the obstruction or change the installation location .

Depending on the size of the space and usage environment, the ozone concentration may be so low that you may not be able to detect any odor.

If the problem does not improve even after cleaning the various parts, please contact your dealer or contact us.

Q8The ozone odor has become stronger.

Depending on your physical condition and constitution, you may feel a strong ozone odor.
Also, if you are away for a long period of time, the smell may be strong depending on the amount of organic matter in the room .

Lower the concentration upper limit setting and level setting to reduce the amount of ozone generated.

Product Specifications

product name	DeAlot
Model	TM-2.0C
Ozone generation method	Dielectric barrier discharge method
Ozone gas generation amount	50mg/h
Ozone generation level	Level 1: 10mg/h 4 seconds on, 16 seconds off, repeated Level 2: 20mg/h, starts for 8 seconds, stops for 12 seconds, repeats Level 3: 30mg/h, starts for 6 seconds, stops for 4 seconds, repeats Level 4: 50mg/h continuous operation
Ozone concentration setting	0.05ppm, 0.09ppm
Ozone concentration monitoring monitor	OGS -01
Proximity sensor specifications	Effective distance 24cm±3cm (no reflection from the front)
power consumption	6.1W
Rated input	DC12V
Air flow	Maximum 50 m ³ /h
Operating temperature/humidity	5 ~ 35°C 80%RH or less (no condensation)
Storage temperature/humidity	-10 ~ 50°C 20 ~ 90%RH or less (no condensation)
Applicable area	8m ² ~90m ²
Weight	Approximately 1130g
Dimensions (W x D x H)	When folding the panel :195 x 146 x 218 (mm) when the panel is upright :195×146×269(mm)
accessories	·exclusive A.C. Adapter /Instruction Manual · Wall mounting plate · Wood screws×2 · Cleaning brush (installed on the product)

*The amount of ozone generated is based on our measurement conditions. It varies depending on the usage environment.

*Please note that specifications of this product may change without notice due to improvements.

Disposal

【 Dispose 】

Please follow local regulations when disposing of this product, accessories, and packaging materials.

Please contact your local government to find out what their rules are.