

Oxygen cluster ion deodorizer

Levion

The oxygen cluster ion eliminates virus and odor in the air, so that it create the comfortable environment.

■ Feature

- 1) The micro plasma discharge which makes a great deal of ions occur high-efficiently.
- 2) Cleaning and an exchange of consumables are easy, so the maintenance is excellent.
- 3) It's a AC adapter system, so safety is very high.

Product line up

Sylphide

Interior installation type (exposure)

This model ideally use for garbage place in apartment complex. Mainly sets ceiling or surface of the wall near the air supply opening. Because of the static sound type cross flow fan, this product can get high deodorization effect even if the aeration system which is hard to get the aeration current like a door louver.

* When this product operating, please control it by the interlocking operation with the ventilation equipment in basically.

Models	Sylphide 1	Sylphide 2
Effective capacity	110m ³	220m ³
Dimensions (W×H×D)	450×140×145mm	
Energy Consumption	27W	40W
Weight	4.5kg	5.0kg



Piccolo

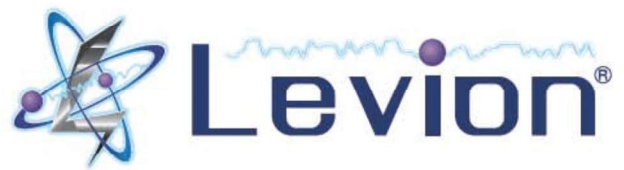
Super small type

This model ideally use for small spaces such as each floor garbage place in high rise tower apartment or elevator. This product puts a fan on the main body and generate enough quantity of ions although being small. Setting is very flexible with an attached stay, it can set in any places including a ceiling and the wall surface.

* When this product operating, please control it by the interlocking operation with the ventilation equipment in basically.

Models	Piccolo
Effective capacity	60m ³
Dimensions (W×H×D)	79×116×50mm
Energy Consumption	7.5W
Weight	0.54kg





KALMOR oxygen cluster disinfecting and deodorizing device

■ What is the Oxygen ion cluster ?

An oxygen ion cluster is a aggregation which attracted 10~60 oxygen molecule ions. In normally, a lot of oxygen ion cluster made in natural world when sunbeam hits the air. The Levion electrifies atmospheric oxygen molecules with an electric discharge element and creates a large quantity of oxygen cluster ions artificially from slight electricity.

■ Operating requirements

Operating temperature : 0° to 50°C(32°to122°F)

Life of the ion : reduce to half in approximately 40 seconds

Control system : Interlocking operation
with the ventilation equipment

Relative humidity : Under 70%

Power supply : 100V AC

*AC power cable corresponds to only 100V.

When using the other voltage, it has to change the AC cable.

Sylphide mini

Interior installation type (exposure/ceiling built-in)

The model who covers the middle capacity area of Sylphide and Piccolo. Because the noise is quiet, you can use in the room. It can also be used as the ceiling built-in type by using option component. Therefore it's possible to install without spoiling the appearance in the room.

Models	Sylphide mini	
Effective capacity	60m ³	
Installation	Exposure	Ceiling built-in
Dimensions (W×H×D)	150×150×56mm	200×200×135mm
Energy Consumption	6W	6W
Weight	0.65kg	0.85kg



RAITEI

Duct installation type

This device install secondary side supply air duct of AHU, and an oxygen cluster ion is supplied to an interior from interior outlet of air. It's most suitable for use in the large-scale space used by the first kind ventilation. It's possible to install it in the duct directly using an exclusive frame. It's not necessary casing unit. The RAITEI has inter locking switch with AHU and the ion adjustment dial , so controller and control panel are unnecessary.

Models	Raitei 2400	Raitei 4800	Raitei 7200
Effective capacity	2400m ³ /h	4800m ³ /h	7200m ³ /h
Dimensions (W×H×D)	340×380×256.5mm		
Energy Consumption	26W	47W	68W
Weight	4.3kg	4.7kg	5.0kg



Oxygen cluster ion deodorizer

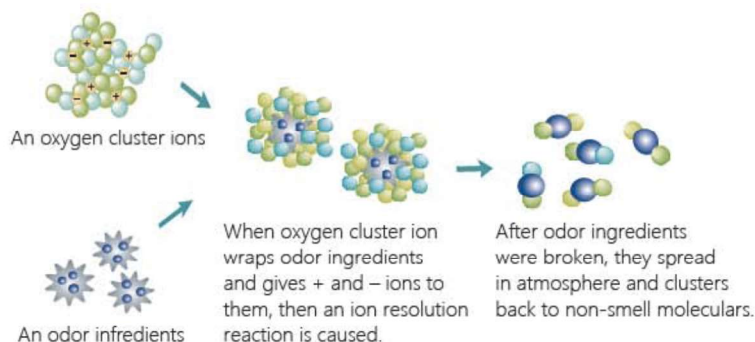
Levion

Deodorization principle

■ Deodorization

A huge oxygen cluster ion wraps small smell molecules

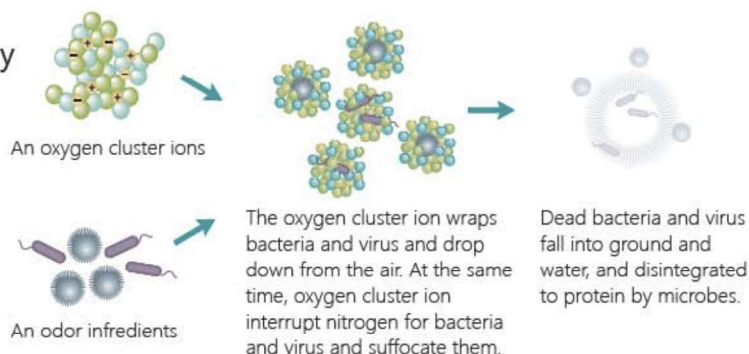
Most of the odor ingredients which can feel with human nose are very small molecules, and molecular weight is between 17 to 300. The oxygen cluster ion has about 1000~2000 molecules weight, that oxygen cluster ion can wraps odor ingredients easily and breaks them by ion resolution reaction.



■ Bacteria elimination

Interrupting nitrogen supply which is necessary for the growth of bacteria and the virus.

The oxygen cluster ion shows a high sanitization effect for bacteria and a virus floating in the air. The oxygen cluster ion wraps bacteria and viruses and interrupt nitrogen supply. If there is no nitrogen, they can't grow and die. This is how the oxygen cluster ion kills bacteria and virus.



Ideal for

The deodorization and sanitization by the oxygen cluster, show an effect at various places. Levion deodorize various indoor places that is a source of odor such as garbage place or wastewater treatment facility.



Garbage room



Office



experimental animal facility



Rest room

By the air condition of indoor place is kept clean and good condition, exhaust measures will become needless. This is the big characteristic of Levion.



Elevator



wastewater treatment facility



Disposal plant

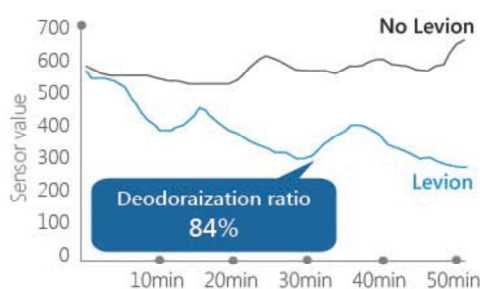


Shopping mall

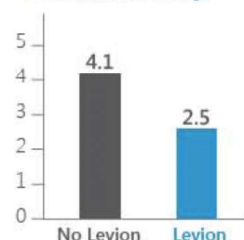
Deodorizing effect

Deodorization test result in the waste unit

measurement with Kalmor odor sensor

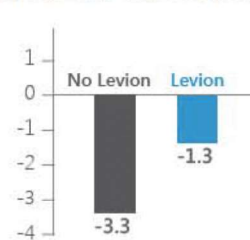


Odor intensity



* 6 phases of odor intensity
 0 Non smell
 1 Very weak, possible to smell
 2 Weak smell that understanding what's smell
 3 Smell easily
 4 Strong smell
 5 Smell intense

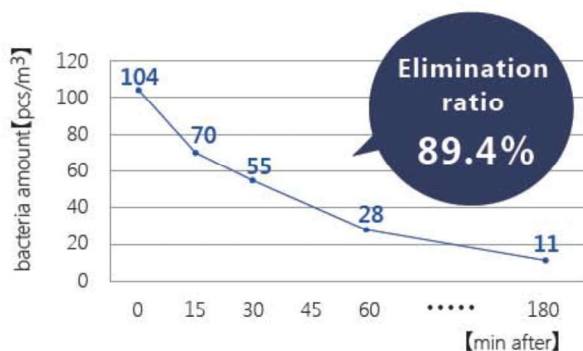
Comfort / Discomfort



* 9 phases of comfort / discomfort smell index
 -4 Too Discomfort / 4 Too comfort
 -3 Very Discomfort / 3 Very comfort
 -2 Discomfort / 2 Comfort
 -1 Discomfort a little / 1 Comfort a little
 0 Non smell

Bacteria elimination effect

Bacteria eliminate examination by third party



Bacteria eliminate test at certain office



About maintenance

Maintenance is simple and easy,
 That must be the thing to move every day

• When the element got dirt intensely, just wipe off the surface with ethanol.

• Once in 8,000 hours, blade exchange is necessary.
 Blade exchanging is very simple and easy.

* When order or any questions, please contact our sales agency below or us.

Discharge blade
 should be replaced
 after about one year.

Discharge blade discharge part expansion photo



【New】



【About 1 year later】



▲ Discharge Blade



▲ It can be
 exchanged easily