# **Features**

#### produce a large quantity of ions in high efficiency. Microplasma electric discharge system

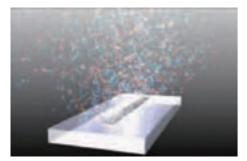
This compact electric discharge element can produce a large quantity of ions in high efficiency with little consumption electricity, and also because of built-in heater, This product possible to generate ions stably high humidity environment.

#### Easy to change Expendables and cleaning. Simple maintenance design.

The blade shape electric discharge element makes maintenance work easy. The removable electric discharge element helps your regular exchange work and cleaning. When the element got dirt intensely, just wiping off the surface with ethanol.

#### AC adapter system High levels of safety

The power supply is adopted an AC adapter system. Supplied electricity is converted into direct current with an adapter, the inside of machine which became high voltage is controlled in DC24V. In addition, this product completely made in Japan which has high quality and high safety.







Discharge blade

Discharge blade should be replaced after about

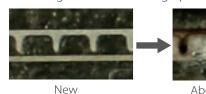
one year.

# **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.

# [Discahrge blade discharge part expansion photo]









▲ It can be exchanged easily







[Selling agency]

KALMOR

Corporate Name

Tel

Fax

Adress

Established

# Do you know really the beautiful air?

Oxygen ion cluster removes atmospheric invisible odor and viruses and makes the clean, comfortable air situation.

#### What is the Oxygen ion cluster?

An oxygen ion cluster is a aggregation which attracted  $10 \sim 60$  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.

# **Sylphide**

# Interior installation type (exposure)

This model ideally use for garbage place in apartment complex. Mainly sets celling or surface of the wall near the air supply opening.

Because of the static sound type cross flow fan, this product can get high deodoraization 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	Effective capacity	Dimensions (W×H×D)	Energy Consumption	Weight
Sylphide 1	110m <sup>3</sup>	450×140×145	27W	4.5kg
Sylphide 2	220m <sup>3</sup>	450×140×145	40W	5.0kg







# Sylphide mini

Interior installation type (exposure/ceilling 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.

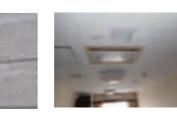
It can also be used as the ceiling built-in type by using option component.

Therefore it's possible to install without spoiling the appearance in the room.

Models	Effective capacity	Installation	Dimensions(W×H×Dmm)	Energy Consumption	Weight
Sylphide mini	6 0 m <sup>3</sup> —	Exprosure	150×150×56	6W	0.65kg
		Ceiling built-in	200×200×135	6W	0.85kg









#### Operating requirements

- Operating temperature : 0° to 50°C(32°to122°F) Life of the ion : reduce to half in approximately

# 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	Effective capacity	Dimensions (W×H×D)	Energy Consumption	Weight
Piccolo	60m <sup>3</sup>	79×116×50	7.5W	0.54kg



# RAITEI

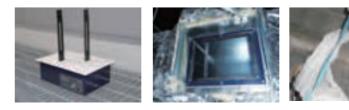
# **Duct installation type**

This devicce 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.lt' s not neccesery casing unit. The RAITEI has inter locking switch with AHU and the ion adjustment dial, so controller and control panel are unnecessary.

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











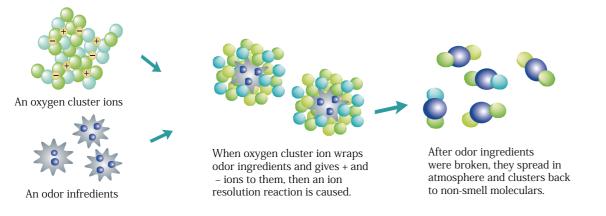




#### <u>Dedorization</u>

### A huge oxygen cluster ion wraps small smell molecules

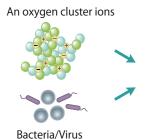
Most of the odor ingredients which can feel with human nose are very small molecules, and molecular weight is between 17 to 300. The oxygen cluster ion has about 1000~2000 molecules weight, that oxygen cluster ion can wraps odor ingredients easily and breaks them by ion resolution reaction.

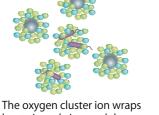


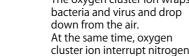
#### Bacteria elimination

#### 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.









Dead bacteria and virus fall into ground and water, and disintegrated to protein by microbes

# **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.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.



Garbage room



wastewater treatment facility





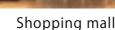
Elevator



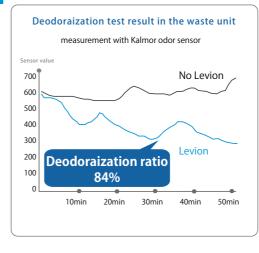




experimental animal facility



# **Deodoraizing effect**



3: Smell easily 4: Strong smell 5: Smell intence

5 -4\_

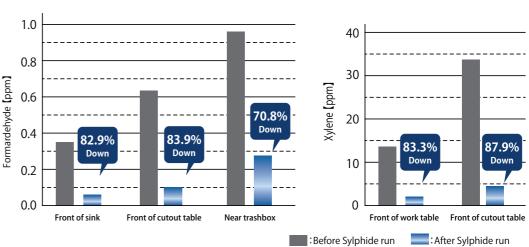
3 —

2\_

1\_

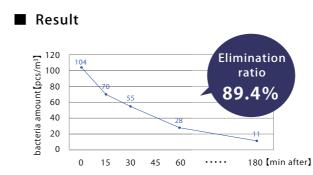
# Eliminate formaldehyde effect

### Formaldehyde & xylene deodrizing test at hospital and pathology laboratory



# **Bacteria elimination effect**

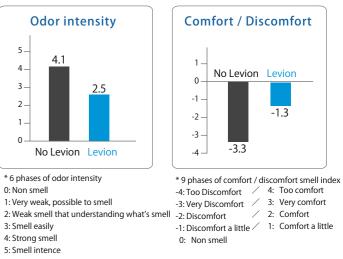
**Bacteria eliminate examination** by third party





Disposal plant







#### Bacteria eliminate test at certain office

