

We trust the power of ozone for provide real disinfection and deodorizing

That Strong disinfection and deodorizing with ozone air



Bactector O₃ 46.35m² High volume, safe production of ozone

- Safe disinfection even on adhesive bacteria
- Automatic control of ozone concentration
- It have an automatic ozone monitor to ensure safe 24 hours usage.
- No need to exchange filters
- World's first plasma ozone generator with concentration monitoring meter **patent pending**

Comparison of Disinfection Effects

		# of cluster growths per sheet					
		Before	1 hour	2 hour	3 hour	4 hour	5 hour
Colon bacterium	BT-03 Tamura Teco	305	332	2	0	0	0
	IG-A100 Sharp	305	318	364	340	309	310
	F-PJD35 Panasonic	305	318	333	339	334	334
Staphylococcus aureus	BT-03 Tamura Teco	323	2	0	0	0	0
	IG-A100 Sharp	323	354	314	323	321	293
	F-PJD35 Panasonic	323	328	342	333	323	298

*Japan Food Research Laboratories (SaitoLab) <http://www.jfri.or.jp/e/index.html>

Specifications

Voltage rating	100VAC(230VAC)	Ozone concentration at outlet	1.5ppm (max)
Frequency rating	50Hz/60Hz	Fuse	1A (F5.2×20mm)
Power consumption	12W	Weight	1365g
Ozone generation method	Creeping discharge	External dimensions	W180×D76.8×H200mm(excluding protrusions)
Ozone volume	5/20/30/50mg/h		
Processed air volume	Low : 16.7m ³ /h High : 26.1m ³ /h		

LYON II 24.72m² Amazing effectiveness in a small package.

Safe disinfection even on surface bacteria.

- No replacement parts necessary
- Simple maintenance
- Perfect for those who want compact, convenient disinfection/deodorizing
- Disinfects and deodorizes spaces up to 24.72m²

Specifications

Voltage rating	100VAC (with AC adaptor) (230VAC)	Weight	720g
Frequency rating	50Hz/60Hz	Ozone concentration at outlet	1.4ppm*
Power consumption	5.0W (with AC adaptor)	Dimensions	205×70×126mm
Ozone generation method	Creeping discharge	Minus ion generation volume	5×10 ⁵ /cm ³ (approx.)
Ozone volume	1~20mg/h	*The ozone concentration new the device are slightly different from the environmental concentration in the space the product is used in. With concentration adjustment, the actual concentration of ozone is 0.1ppm or less, at a safe Usage level.	

Handy Clean 30.9m²

- It provides a low cost and high performance solution using ozone lamp(Quartz Tube)
- It provide controlled ozone circulation, deodorization and disinfection of the environmental air.
- Timer included as standard

Specifications

Voltage rating	100VAC 50/60HZ(230VAC)
Power consumption	28/34W
Weight	3.4kg
Ozone concentration at outlet	4ppm
Dimensions	W530×D134×H99mm

*Use in an unmanned area

- Vehicles
- Changing rooms/locker rooms
- Retirement homes
- Karaoke rooms
- Hospitals/doctor's office
- Car air conditioning
- Pet shop
- Hotels
- Barber shops/salons
- Receptions/toilets

Characteristics of ozone

- Strong disinfection**
Ozone is believed to have a disinfectant strength 7 times more powerful than chlorine
- Works on almost all bacteria**
Bacteria/mold/viruses
- No danger of secondary pollution**
Ozone breaks down and can return to being oxygen

Superior effects of ozone

- Superior disinfection**
Works on bacteria, mold (fungus), and viruses etc.
- Superior deodorization**
Effective against tobacco smells, stench of organic waste and drains, and pet smells etc.
- Superior decomposition**
Effective against dioxin, pollen, formaldehyde etc.
- Superior mite elimination**
Gets rid of mites

Powerful disinfection and deodorizing with ozone water

L Clean converts tap water into ozone water.

- Ozone water has a powerful disinfecting action (see table 1), and can be used instead of disinfectants such as washing powder (no need to keep stocks).
- Before cooking, put vegetables, fruit, and fish in a cleaning tank containing ozone water to clean, disinfect, and deodorize them.
- Can be used for disinfection, deodorization, and fungus removal from kitchen utensils and groves in floors/walls during or after cooking.
- Ozone water can be used for cleaning in places where chlorine cannot be used, such as a rock-bottom of a bath or a spa.
- Main uses** : hand washing areas at kindergartens, Dentists and facilities for the elderly



patent pending

L Clean Jr Auto II One outlet

- Wash your hands without getting them dirty, just place your hands over the sensor.
- Automatic stop function adjustable between 15 and 60 seconds.

Specifications

Ozone concentration	0.6~1.0mg/L
Ozone volume	6.0L/min
Dimensions	W300×D150×H317mm
Weight	6kg



patent pending

L Clean Up to 3 outlets

- Does not use chemical and leaves no residue
- Powerful device in a compact system
- Removes fungus from drains and organic waste

Specifications

Ozone concentration in water	0.6~1.2mg/L
Ozone water volume	16.5L/min
No. of ozone water outlets	up to 3
Power consumption	44W (100VAC / 230VAC)
Dimensions	W300×D200×H350mm
Weight	12kg

Disinfection Effect of Ozone Water

	Aqueous Ozone Concentration (ppm)	Microbial Concentration (#/ml)	Temperature (degrees C)	ph	Contact Time (seconds)	Death Rate (%)
Colon bacillus	0.96	10 ⁸ cells	21	7	5	100
Staphylococcus	1.08	10 ⁸ cells	21	7	5	100
Pseudomonas aeruginosa	1.01	10 ⁸ cells	21	7	5	100
Clostridia	0.96	10 ⁸ cells	21	7	5	100
Parfringens	0.96	10 ⁸ cells	21	7	5	100
Influenza virus	0.96	10 ⁵⁰ EID50	21	7	5	100
Chicken encephalomyelitis virus	0.72	10 ⁵⁰ EID50	20	7	5	100
Canine infectious hepatitis virus	1.2	10 ¹⁵ EID50	21	7	5	100
Canine parvovirus	0.96	10 ²⁵ TCID50	21	7	5	100
Chicken coccidium	1.92	3×10 ⁸ cells	20	7	30	100
Mold	0.3~0.5	10 ⁶ cells	20	6.5	19	99.9
Yeast	0.3~0.5	10 ⁶ cells	20	6.5	90	99.9
Bacillus subtilis	0.3~0.5	10 ⁶ cells	20	6.5	30	99.9

*Ministry of Health, Labour and Welfare

Effects other than disinfection and deodorizing

- Effective against hay-fever, allergies, and sick house syndrome
- Insect repellent
- Breaks down pollen, mite bodies, and formaldehyde (the cause of sick house syndrome), and also repels mites and cockroaches.

Examples of use

- In actual use in the following places
- Fire department (ambulances), drug stores, pharmacies, homes for the elderly, schools, public facilities, stations, airports, hotels, restaurants, fish shops, golf courses, households, pet shops, medical facilities, companies, warehouses, apartment blocks (garbage areas)

FAQ about Ozone

■What is the effect of ozone?

If provide strong oxidization, ozone has the effect of disinfection, deodorizing, and decomposition.

■What kind of viruses can it be used against effectively?

Ozone works effectively against most viruses.
Tests have been conducted against many viruses.(See list)

■How can you deodorize with ozone?

With its strong capacity for oxidization, ozone directly breaks down the source of odors.

■How long does it take ozone to get rid of stubborn odour from rooms or clothes?

This depends on the size of the room, but generally it takes 15 to 30 minutes to reach a level where you do not notice it anymore. For clothes, you can get rid of stubborn smells in about 1 hour.

■Can ozone break down pollen?

Yes, it can.
This has been verified with test data.

■Can ozone suppress mold?

Yes, by breaking down the protein of the cells on the surface of mold.
For mold that has already developed, you can prevent it from growing any further.

■Is ozone safe?

Ozone has a powerful capacities for disinfection, deodorization, and decomposition, and as it is formed from oxygen it returns to as oxygen without residue when it is finished its job. However, because the effects are very strong, if the concentration is too high it can have an effect on humans. It is generally considered to have no adverse effects if the concentration in the area it is used is 0.1ppm over 8 hours.and with build-in control monitoring.

■How is it different from an air-cleaning device?

An air-cleaning device traps dust, odors, and bacteria with a filter and cleans the air it draws in. It does not directly break down or disinfect.
By emitting ozone, the L Clean series performs disinfection, deodorization, and decomposition, and directly breaks down and eliminates targeted substances. As such, ozone can proactively disinfect, deodorize, and break down matter in the air.

■What are the safety measures for ozone?

Depending on the concentration, ozone can have an effect on humans. However, the Bactector O₃ has an automatic ozone monitor, so that the correct the amount of ozone generated is at a safe and efficiently controlled Level. It has been developed so that it can be used safely over 24 hours anywhere, so you can use it with a peace of mind.

Trial

- A one week trial will allow you to experience the effect.
- Also, for an onsite trial, please feel free to contact the dealer below.



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