



HOUSE of PURITY



Marketed by:

KENT RO SYSTEMS LTD.

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KENT CAR OZONE AIR DISINFECTANT

Kills Bacteria, Viruses & Keeps Car Air Clean



HOUSE of PURITY

Instruction Hand Book for
Installation, Operation and Maintenance.



Disinfects | Deodorizes
Reduces Mildew

Welcome to KENT

Dear Customer,

Welcome to the world of **KENT**, a leading brand in the water purification industry of India. With a **KENT** product, you have all the reasons to smile as we at **KENT**, take pride in the quality and laboratory-tested performance of our products.

We are confident that your decision to own a **KENT Car Ozone Air Disinfectant** will go a long way in serving you with purified, fresh & detoxified air - thus keeping you and your family in good health. We assure, that you will be satisfied with its trouble-free performance and quality.

This manual is an effort towards acquainting you with the operation and maintenance of **KENT Car Ozone Air Disinfectant**. Read this manual carefully before using the product and keep it for future reference. To enjoy the benefits of warranty, fill up the enclosed warranty card and send the installation report within 15 days of purchase. For further assistance, contact your nearest **KENT** dealer or branch.

Best Wishes,

KENT RO SYSTEMS LTD.



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Air Pollution: An Evil Taxing the Modern Lives

Air pollution, also known as atmospheric pollution, has become a complex issue to deal with. It has been defined by W.H.O. (World Health Organisation) as the presence of harmful materials in excessive concentration which adversely affects the living beings and natural environment. The large scale industrial, automobile and volcanic emissions (of fumes) are the major factors responsible for this pollution. Some other factors degrading the air quality are viruses, bacteria and micro organisms. This is the reason why many people in the cities today are developing cardiovascular & lung diseases.

KENT Car Ozone Air Disinfectant: The Solution

The KENT Car Ozone Air Disinfectant is a solution made to enhance the quality of your life by making the surroundings clean and pure. After being turned on, it quickly frees the room's atmosphere of harmful bacteria, pathogens, micro organisms, viruses, smoke, chemicals, etc. This is a custom-made gadget which guards its user against harmful and highly contagious airborne diseases, i.e. SARS, H1N1, etc. It occupies just 120mm X 103mm of space and uses a power socket for executing the air purification operations in a room. It discharges the powerful Ozone gas for eradicating all forms of air pollution in the room.

Benefits of KENT Car Ozone Air Disinfectant

- Deodorizes: This device rapidly neutralizes the stale or foul odour, making the car environment fresh.
- Improves health: It oxidizes and decomposes formaldehyde to improve the user's health.
- Disinfects: Accurately kills bacteria & viruses from the car atmosphere.

Salient Features of the KENT Car Ozone Air Disinfectant

- Performs fully automated air purification operations.
- Discharges powerful Ozone gas to purify the air.
- Enables user to regulate the Ozone discharge level.
- Removes harmful bacteria, pathogens, micro organisms, viruses, smoke, chemicals, etc. from the car's atmosphere.
- Highly compact design that makes it portable.

- Programmed with three-cycle modes and timer modes.
- Cost effective and easy to use ozonator.
- Easy to clean mechanism

KENT Ozone Technology

KENT Car Ozone Air Disinfectant uses Ozone gas to purify the air in your immediate environment. Ozone gas is known to have exceptional power to remove germs, bacteria, viruses, chemicals and other pathogens. It is a resourceful oxidising agent with inherent competence to exterminate bacteria, viruses and micro organisms in the air with precision.

What is Ozone?

Ozone is defined by the chemical formula of O_3 - a triatomic molecule holding three oxygen atoms. It was German-Swiss Chemist, Christian Friedrich Schönbein who proposed Ozone as a new chemical substance after the Greek word ozein in 1840 – and the formula O_3 was determined for it in the year 1865. In nature, Ozone is formed because of the exogenic pressure of ultraviolet rays and atmospheric electrical discharges on dioxygen. This powerful oxidant is abundantly present in the Earth's atmosphere. The stratosphere (at 10 to 50km altitude) of the Earth's atmosphere holds the Ozone layer in low concentration. Here, it absorbs 97 to 99% of the Sun's ultraviolet rays from entering the Earth's surface. On the Earth's surface, it can be found near seashores and forests in abundance.

Sadly, air pollution is quickly depleting the Ozone level in the atmosphere. This is the reason-why it is difficult to find Ozone in metropolitan cities. The depletion of Ozone layer has made it imperative for us to find alternative sources of Ozone gas.

Benefits of Ozone

Ozone possesses strong oxidative properties which are 1.5 times more effective than chlorine in eliminating the harmful colon bacillus, staphylococcus, flu viruses, bacteria, etc. The countries with technical competence are already using it for medical & commercial purposes. Europe was the first continent to benefit from the advantages of Ozone generator used on medical water disposal.

The concept of using Oxygen and Ozone for therapies has been prevalent since the late nineteenth century. In 1856, many European hospitals started using Ozone for disinfecting operating rooms. After a few years, Ozone became a part of the water purification process in Germany.

Dr. J. A. Fontaine was the first person to use pure Oxygen in 1879 for treating his patients. The German Doctor, Albert Wolff made some more spectacular revelations in 1915 and used Ozone for treating skin diseases. During World War I, Ozone played a vital role vis-à-vis damage control in the German camp by healing wounds and anaerobic infections of the soldiers. By 1950, Ozone established a strong reputation for curing cancer and many other diseases like tumour & cancer. Since 1990, many doctors have been using Ozone therapy in different ways for curing patients.

Ozone – as Recommended by W.H.O.

A very popular research report of W.H.O. (World Health Organisation) has revealed that it is safe to use Ozone concentration level up to 0.6 ppm. In such a controlled environment, Ozone harmlessly removes smell (of cigarette, decaying rodents, paint, urine, etc.), unpleasant odours from the room and increases human metabolism.

Items in the Box

| | |
|---------------------------------|-------|
| KENT Car Ozone Air Disinfectant | 1 No. |
| Adaptor | 1 No. |
| Warranty Card | 1 No. |

Technical Specifications

| Product | KENT Car Ozone Air Disinfectant |
|---------------------------|---------------------------------|
| Product Code | 111023 |
| Product Generic Name | Air Disinfectant |
| Product Colour | Black |
| Rated Current Dissipation | < 300mA |
| Rated Power Dissipation | 3.6W |
| Ozone Output | 15 ~ 30mg/h |
| Air Flow | 1.5 ~ 2.6km/h |
| Weight | 252 grams |
| Voltage | 12V DC |
| Condition Temperature | 0°C ~ to 40° C |
| Accessory | Adaptor OUT/DC ~ 12V |

AC - DC Adaptor Specifications

| | |
|-----------|---------------------------|
| Input | : 140 – 300 VAC |
| Frequency | : 47 – 53Hz |
| Output | : 12VDC, 300mA, 3.6 Watts |

Caution

- Use only genuine & KENT certified adaptor for the device.
- If the adapter is damaged, then purchase it from KENT or its authorised dealer.

Usage

- For removing stale & foul smells from a room, use the device for at least 30 minutes.
- Do not place the device on the floor of the car, keep it at a high place as Ozone is heavier than air.
- Please set the operating function before leaving the house everyday.
- Do not use the device in an airtight room for a long period.

Operational Instructions

[1.] Once the Power Socket is inserted into the Power Source, the Red, Green & Yellow LED lights blink simultaneously for three times which indicates that the device is ready to use.

[2.] Cycle Mode Settings:

I.) High Cycle Mode

Press the Power Switch, then the Red LED light flashes to indicate that the device has been set in the High Cycle Mode. In this mode, the fan & the Ozone generator start their operations simultaneously. For the first 3

minutes, the Ozone generator produces Ozone and the fan dissipates it. In the 4th minute, the Ozone generator stops functioning but the fan continues dissipation. For the next 6 minutes both the Ozone and the fan stop their operations and go into a dormant stage. This process maintains the PPM level in a room. The cycle repeats itself till the Power On/ Off button is pressed again.

II.) Medium Cycle Mode

For changing the High Cycle Mode into the

Medium Cycle Mode press the Cycle Mode Button (on timer). After this the Green LED Light indicates that the High Cycle Mode has been changed to Medium Cycle Mode. In this mode, the fan & the Ozone generator start their operations simultaneously. For the first 2 minutes, the Ozone generator produces Ozone and the fan dissipate it. In the 3rd minute, the Ozone generator stops functioning but the fan continues dissipation. For the next 7 minutes both the Ozone and fan stop their operations and go into a dormant stage. This process maintains the PPM level in a room. The cycle repeats itself till the Power On/ Off button is pressed again.

III.) Low Cycle Mode

For changing the Medium Cycle Mode into the Low Cycle Mode press the Cycle mode button twice. Then the Yellow LED light flashes to indicate that the Low Cycle Mode has been activated. In this mode, the fan & the Ozone generator start their operations simultaneously. For 1 minute, the Ozone generator produces Ozone and the fan dissipates it. In the 2nd minute, the Ozone generator stops functioning but the fan continues dissipation. For the next 8 minutes, both the Ozone and the fan stop their operations and go into a dormant stage. This process maintains the PPM level in a room. The cycle repeats itself till the Power On/ Off button is pressed again.

IV.) The Cycle Mode settings can be changed anytime after pressing the ON Timer button.

[3.] Timer Mode Settings

I.) Timer Mode: High Cycle

Turn on the device by pressing the Power Switch. Now press the Timer Mode Button (Off Timer) once. The HI Mode Red LED light and OZ LED light would blink continuously to indicate that the device has been timed in the High Mode. The device in this mode can continue operations for 6 hours.

II.) Timer Mode: Medium Cycle

Press the Timer Mode Button (off timer) twice. Then the Medium Mode Green LED and the OZ LED lights would blink continuously to indicate that the device has been timed in the Medium Cycle Mode. This Timer Mode runs the device automatically for 3 hours.

III.) Timer Mode: Low Cycle

Press the Timer Mode button (off timer) thrice. After this, the Low Mode Yellow LED and OZ LED Lights would blink for indicating that the device has timed in the LOW Cycle Mode. This Timer Mode runs the device automatically for 1 hour.

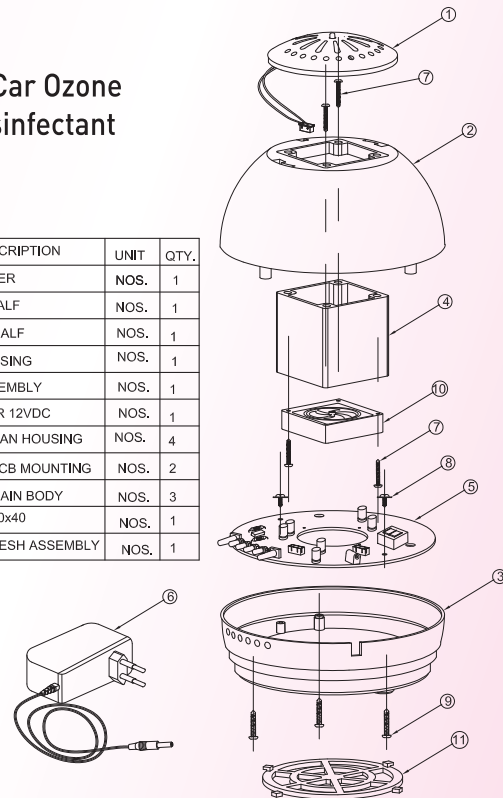
IV.) The Timer Mode settings can be changed anytime by pressing the OFF-Timer button.

*NOTES:

- The device registers the recently used settings before turning off.
- When a user turns the device on, it uses the most recently used settings, which can be changed by the user as per the requirement.

KENT Car Ozone Air Disinfectant

| S.No. | ITEM CODE | DESCRIPTION | UNIT | QTY. |
|-------|-----------|----------------------|------|------|
| 1 | 20317 | TOP COVER | NOS. | 1 |
| 2 | 20318 | UPPER HALF | NOS. | 1 |
| 3 | 20319 | LOWER HALF | NOS. | 1 |
| 4 | 20320 | FAN HOUSING | NOS. | 1 |
| 5 | 20165 | PCB ASSEMBLY | NOS. | 1 |
| 6 | 20321 | ADAPTOR 12VDC | NOS. | 1 |
| 7 | 60697 | SCREW FAN HOUSING | NOS. | 4 |
| 8 | 60698 | SCREW PCB MOUNTING | NOS. | 2 |
| 9 | 60677 | SCREW MAIN BODY | NOS. | 3 |
| 10 | 20316 | DC FAN 40x40 | NOS. | 1 |
| 11 | 20315 | FILTER MESH ASSEMBLY | NOS. | 1 |



Maintenance

- The inner filter of the device must be cleaned with a soft brush or vacuum cleaner after every 2 weeks or 184 hours of operation.
- Do not wash the device with water or any other chemical solution.

Caution

- The device is not water resistant, please do not immerse it in water.
- Clean the device with a soft & dry cloth at regular intervals. Do not use any chemical solution for cleaning the device.
- Replace the adapter when it is out of order. Buy the adapter from KENT or its authorised dealer only.
- Do not try to repair the device on your own, call KENT's service engineer.
- Do not encourage any child or a person with weak heart to maintain or clean the device.
- Do not forget to unplug the device while maintaining or cleaning it.
- The device should only be repaired by KENT Certified Service Engineers only.
- Keep the device out of the reach of children.
- Consult your physician before trying any of the Ozone therapy methods.

Troubleshooting

| NO. | Breakdown | Reason & Troubleshooting |
|-----|---|---|
| 1. | The LED Lights are not flashing and the device is not functioning | Ensure that the adapter has been properly connected to the power socket, and the on/off switch has been pressed properly. |
| 2. | Amplitude vibration and loud noise | Ensure that the device has been placed on an even surface. |
| 3. | The Adapter has malfunctioned | Replace the adapter when it is out of order. Buy the adapter from KENT or its authorised distributor/ dealer only. |