

portable purifier


DEL OZONE™ HOME COLLECTION




DEL OZONE™
EPA Estab. No. 071472-CA-001

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Portable Household Air and Water Purifier
Owner's Manual and Usage Guide
MODEL ZO-103


DEL OZONE™

4-0209 Rev. D

PORTABLE PURIFIER HOUSEHOLD WATER AND AIR PURIFIER INSTRUCTION MANUAL

IMPORTANT SAFETY INSTRUCTIONS

1. Before using this product, read the instruction manual carefully.
2. The Portable Purifier harnesses the natural power of ozone to purify water & air.
3. Do not cover the air inlet on top of the unit or the ozone vent on the side of the unit. Improper ventilation will result in mechanical failure.
4. Store the Portable Purifier in a cool, dry area.
5. Do not take apart the ozone generator within the Portable Purifier. Mechanical failure may occur. Return the whole unit directly to the manufacturer for repair.
6. Do not breathe ozone directly.
7. Use ozone generator in unoccupied room only.
8. Allow proper ventilation when entering a room treated with ozone.
9. If Product is supplied with a standard household plug connect only to a G.F.C.I. protected outlet.

PORTABLE PURIFIER USES

- Residential Well Water (holding tanks)
- Problem Odor Remediation (hotel rooms)
- Fruit & Vegetable Wash
- Food and Cooking Utensils
- Water Bottle / Camelbak® Water Bags (bike)
- Baby Bottle Cleaner
- Bath Water and Wading Pools
- Small Fountains
- Cisterns
- Emergency Water Purification
- Terrorist/Disaster Insurance
- Camping Water
- Motor home Portable Water
- Camping Gear
- Stale Odor Removal
- Mold Odor

OZONE IS AN EFFECTIVE PURIFIER

- Ozone kills: bacteria, viruses, molds, mildew, spores, and cysts.
- Ozone destroys: chemical contaminants such as aldehydes which can be emitted from paneling, carpets, insulation, paints, stains, and plastics.
- Ozone eliminates odors: cigarettes, cigars, pets, diapers, mildews, musty/stale smells, airborne molds, food, locker rooms, shoes and boots, and more!

THE HISTORY OF OZONE

Ozone, sometimes called active oxygen, is comprised of three atoms of oxygen. Ozone is a natural purifier and one of nature's basic elements. Ozone is produced in nature when the ultraviolet rays of the sun strike oxygen molecules. When this occurs high in the atmosphere it creates what we know as the "ozone layer." Because the oxygen molecules absorb the sun's energy, living things on earth are protected from the damaging and potentially cancer-causing rays of the sun. Nature also produces ozone near the earth's surface, especially during a thunderstorm, when lightning flashes. The sweet, fresh smell after a thunderstorm is ozone.

Ozone will destroy viruses, bacteria, and virtually all other forms of microbes, as well as break down chemical contaminants. It does this in both air and water and does it without the use of chemicals or additives of any kind!

Ozone's use as a water purifier was discovered in the late 1800's in the Netherlands. Its first large-scale use was in Nice, France where it was used to purify drinking water. Today, more than thirty countries use ozone systems to purify drinking water. In fact, Los Angeles has one of the largest ozone water treatment plants in the world, processing more than 580 million gallons of city drinking water per day. This system was chosen over a chlorine system due to ozone's extraordinary ability to effectively purify water without negative side effects. In addition, most of the world's bottled water plants use ozone as part of their water purification process.

Ozone is also gaining tremendous popularity as an air purifier throughout the world. Our homes and offices can be a source of environmental pollution. The EPA estimates that indoor pollution causes tens of thousands of illnesses each year, and many more from contaminated water. Ozone is the most effective way to purify your air and water.

Ozone is clearly superior to virtually all other forms of purification. When you use the **PORTABLE PURIFIER** you won't have to purchase or store any chemical or purification materials or change any filters. Everything you need is generated within the small, lightweight, and portable unit. All this for just pennies a day.

DEL OZONE LIMITED 90 DAY WARRANTY

The limited warranty set forth below applies to products manufactured by DEL Ozone - 3428 Bullock Lane, San Luis Obispo, California 93401, and sold by DEL Ozone or its authorized dealers. This limited warranty is given only to the first retail purchaser of such products and is not transferable to any subsequent owners or purchasers of such products.

DEL Ozone warrants that it or its authorized dealers will repair or replace, at its option, any part of such products proven to be defective in materials or workmanship within ninety (90) days from the date of retail purchase of such products. (All parts) ANY REPAIR OR REPLACEMENT WILL BE WARRANTED ONLY FOR THE BALANCE OF THE ORIGINAL WARRANTY PERIOD.

NOTE: USE ONLY DEL Ozone AUTHORIZED REPLACEMENT PARTS. USE OF ANY OTHER PART(S) WILL AUTOMATICALLY VOID THIS WARRANTY.

Any replaced parts must be returned to DEL OZONE for warranty evaluation.

THIS LIMITED WARRANTY DOES NOT INCLUDE ANY OF THE FOLLOWING: (a) any labor charges for troubleshooting, removal, or installation of such parts; (b) any repair or replacement of such parts necessitated by faulty installation, improper maintenance, improper operation, misuse, abuse, negligence, accident, fire, repair materials, and/or unauthorized accessories; (c) any such products installed without regard to required local codes and accepted trade practices; (d) ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE, AND SUCH WARRANTIES ARE HEREBY DISCLAIMED: AND (e) DEL Ozone SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR LOSS OF USE OF SUCH PRODUCTS, LOST PROFITS, DIRECT DAMAGES, INDIRECT DAMAGES, CONSEQUENTIAL DAMAGES AND/OR INCIDENTAL DAMAGES.

TO OBTAIN WARRANTY SERVICE:

DEL Ozone Warranty Department
PO Box 4509, San Luis Obispo, CA 93401
Customer Service Number: (800) 676-1335 x 293
Fax Number: (805) 541-8459
E mail to service@delozone.com

When filing a claim, you must provide:

1. your name, mailing address and telephone number
2. the selling dealer's name
3. proof of date of purchase
4. the date of failure
5. a description of the failure
6. Part number and serial number / mfg date

After this information is provided, DEL Ozone may release a RETURN GOODS AUTHORIZATION (RGA) NUMBER. After receiving the RGA number the part in question must be returned to DEL Ozone, freight prepaid, with the RGA number clearly marked on the outside of the package. All preauthorized defective parts must be returned to DEL Ozone within thirty (30) days. Under no circumstances may any product be returned to DEL Ozone without prior authorization. Returns without the assigned RGA number on the outside of the package will be refused and shipped back to the sender at their expense. Upon receipt of preauthorized returned goods, DEL Ozone will repair or replace, at DEL Ozone's option, the defective product(s) and return them (freight prepaid for products under warranty). Buyer's acceptance of the product and use thereof constitutes acceptance of these terms.

SIMPLE TROUBLESHOOTING

Before sending the product in for repair, check for the following:

SYMPTOM: Power indicator light OFF

CORRECTIVE ACTION

1. Make sure all cords between ozone generator and outlet are free of kinks.
2. Make sure all cords are undamaged.
3. Make sure ozone generator is turned on.
4. Make sure electrical connection is functioning properly.

UNIT SPECIFICATIONS

Portable Purifier	120 Volt Unit	230 Volt Unit	12 Volt DC Unit
Power	120 V 50/60 Hz 0.15 Amps	230 V 50/60 Hz .08 Amps	12 V DC 0.2 Amps
Rated Flow	5.3 scfh	5.3 scfh	5.0 scfh
Dimensions	12.6"L x 8.7"W x 3.8"H		
Weight	4.4 lbs.		
Accessories	Ozone supply tubing, dispersion stone, instruction manual		
Automatic Timer Control	5 min, 10 min, 15 min, 30 min, 60 min		

REPLACEMENT PARTS

Ozone Supply Tubing - 7-0723

Dispersion Stone - 7-0391

OPERATING INSTRUCTIONS

1. Place the Portable Purifier above water level to prevent backflow.
2. Attach open end of ozone supply tubing to ozone vent on the left side of the generator and insert dispersion stone into the water.
3. For units with a standard household plug, simply plug the power cord into a grounded, G.F.C.I. type receptacle. Models without a timer pad will immediately start.
4. For units with a 12V Accessory Plug, connect directly to a 12V receptacle (cigarette adapter).
5. Follow CONTROL PANEL INSTRUCTIONS below.

CONTROL PANEL INSTRUCTIONS

Indicator Lights -

Indicator lights adjacent to circled numbers show you which setting you have chosen.

NOTE: If the Portable Purifier is unplugged or loses power during an operational cycle it will have to be restarted when power is restored. Press the button twice to turn off the Portable Purifier.

- 5 - Press this button to set timer for five minutes.
- 10 - Press this button to set timer for 10 minutes.
- 15 - Press this button to set timer for 15 minutes.
- 30 - Press this button to set timer for 30 minutes.
- 60 - Press this button to set timer for 60 minutes.

TREATMENT OF FRUITS & VEGETABLES

The shelf life of fruits and vegetables can be extended by ozone treatment. Not only will they keep a more attractive appearance, but they will also taste fresher! To help keep your produce fresh, fill your sink with water and place the Portable Purifier's dispersion stone in the bottom of the sink. Place the vegetables and/or fruit to be treated in the water and operate the Portable Purifier for 15 minutes if using the 120V or 230V unit and 30 minutes for the 12V DC unit. (Average sized sink half-full of pre-washed produce). Increase treatment time for larger sinks and greater quantities of produce.

TREATMENT OF COOKING UTENSILS, BOTTLES & FOOD

Since ozone kills bacteria and viruses, it can aid in the destruction of bacteria found on raw foods and cooking utensils. Soaking uncooked chicken parts, for example, in ozone treated water will help retard the growth of salmonella. For best results, follow the same procedure described above for produce. For utensils and bottles, rinse off food debris and treat in clean water with ozone for fifteen minutes if using the 120V or 230V unit, and for thirty minutes if using the 12V DC unit.

PORTABLE WATER TREATMENT

The Portable Purifier can be used to purify water in emergency storage, spas, bathtubs, fountains, and wading pools. It can also be used to purify drinking well water (storage tanks), cisterns, or city water supplies, removing undesirable tastes, odors and colors caused by iron, copper, manganese, chlorine and organics. Do not use water from a source that is questionable such as stagnant pond water or the like.

To treat water, place the dispersion stone into the water container and leave the unit on the approximate amount of time shown in the table below. When completed, turn off the Portable Purifier and allow a few moments for excess ozone to dissipate from the water. Higher output ozone generators are available for wells and holding tanks

When used in conjunction with a particulate filter, ozone will also remove excess minerals including iron, manganese, and lead, as well as radon and sulfur gases.

NUMBER OF GALLONS	SUGGESTED TREATMENT TIME
1	15 minutes
5	30 minutes
10	45 minutes
50	1.5 hours
100	3 hours

WADING POOL TREATMENT

The Portable Purifier can be used on wading pools, preventing green algae and extending the usability of the pool. Ozone is pH neutral, so it will not adversely affect the acid/alkaline balance of your water. It is more cost effective than traditional chemicals and leaves no undesirable smell or taste. Continuous operation is proven to be the most economical treatment method for fountains and larger bodies of water to 1,000 gallons. Therefore, DEL recommends the Platinum Spa Unit, not the Portable Purifier, for larger applications.

1. The Portable Purifier™ must be sheltered from direct exposure to the elements (rain and water). Place at least five feet from the pool and at twelve inches above the maximum water level. Ensure that the location is out of the reach of children or anyone in the water.
2. Connect the ozone supply tubing to the outlet vent on the left side of the purifier. If the ozone supply tubing is too long, trim it with household scissors or a razor knife. If the tubing is too short, additional ozone supply tubing is available from DEL (See Replacement Parts on page 6).
3. Place the dispersion stone into the body of water near the bottom center for maximum ozone saturation in the water.
4. Plug the Portable Purifier into a Ground fault circuit interrupter (G.F.C.I.) protected outlet.

AIR TREATMENT USES

The Portable Purifier can be used to destroy airborne odor caused by such things as wet carpet, basement mold and mildew, and fire/smoke damage. Simply use the timer settings on the Purifier to select the duration of ozone treatment. Avoid placing the dispersion stone at the end of the ozone supply tubing too close to metal or rubber objects as high levels of ozone will oxidize and potentially destroy these objects.

OPERATION INSTRUCTIONS:

1. Plug generator into a GFCI protected AC outlet (for the 120V or 230V unit) or a 12V outlet (for the 12V DC unit).
2. Attach open end of ozone supply tubing to ozone vent on the left side of the generator. Extend tubing so that the dispersion stone and Portable Purifier are as far apart as possible.
3. Operation times vary according to the size of the room and the amount of odor present. Begin by setting the timer to 60 minutes.

WARNING: Long term inhalation of high concentrations of ozone gas in air can cause nasal and/or lung irritation. When using this unit for air treatment purposes, it is recommended that it be operated in unoccupied spaces whenever possible.