

## Customer Service

If you have a question about your air purifier, call our toll-free customer service number. Before calling, please note the model, type and serial number and fill in that information below. These numbers can be found on the back of the air purifier. This information will help us answer your question more quickly.

MODEL: \_\_\_\_\_ SERIAL: \_\_\_\_\_

### ONE-YEAR LIMITED WARRANTY

Quantum Pure Aire Products warrants this air purifier to be free of defects in material and workmanship for a period of one year from the date of original purchase. If the unit is damaged in shipping or fails in operation, notify us immediately. Call 1-401-732-6770 the Customer Service Department.

If your unit is within the warranty period, it will be repaired at no cost to you.

Only Quantum Pure Aire Products Service can issue a Return Authorization Number (RA#) for repair. NO returns will be accepted without a RA#. After obtaining a RA#, forward the unit and the AC adapter prepaid to the address below. It is recommended that the RA# be prominently placed on the outside of the shipping carton. Failure to follow these steps may lead to unnecessary delay and expense in processing your request.

If the unit is beyond the warranty period, we will repair, retrofit or otherwise return the unit to an operational state. You will be given the cost of the repairs prior to your returning it to us. ALL REPAIRS MUST BE PREPAID.

All warranty benefits are void if the unit is, (a) operated contrary to the operating manual; (b) serviced by an unauthorized agent; or (c) misused or abused. This warranty is NOT TRANSFERABLE unless authorized by the factory. No agent or reseller is authorized to warranty or repair this product.

QUANTUM PURE AIRE PRODUCTS, LLC

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THIS MANUAL SUPERSEDES ALL PREVIOUS PUBLICATIONS

# QUANTUM PURE AIRE PRODUCTS, LLC

INNOVATORS OF AIR TREATMENT SYSTEMS

## BilgeBuster™



## OWNER'S MANUAL



## **AIR PURIFIER SAFETY**

### **PLEASE READ AND SAVE THESE INSTRUCTIONS**

In order to prevent the risk of fire, electric shock, personal injury or damage to property, follow these instructions carefully. When using electrical appliances, basic safety precautions should be observed, including the following:

1. Read all instructions before using this air purifier. Save these instructions for reference.
2. Do not immerse this product in water. An electrical short may result in shock or fire.
3. Do not handle the plug with wet hands; electrical shock may occur, resulting in injury or death.
4. Never attempt to disassemble or alter the product in any way not instructed by this manual. Shock, fire or bodily injury may occur. Contact Quantum Pure Aire Products. at 1-401-732-6770 for assistance.
5. Do not operate this product near an open flame. It may ignite and cause a fire, resulting in bodily injury or property damage.
6. Do not insert foreign objects into the product for any reason. Bodily injury or property damage may occur.
7. Do not attach this unit or its wiring to any hot surface.

### **Return Policy**

Returned units will not be accepted without a RA (Return Authorization) number. RA numbers are issued by our Customer Service or Sales department by calling 1-800-966-5575. Units must be returned in their original condition and packaging, with all included accessories and/or materials within thirty (30) days of date received. Any returned merchandise not in its original condition will be assessed a fee. Freight charges are non-refundable on any returned or refused delivery. Refunds will be issued approximately ten (10) days after unit is received in our facility. Failure to follow these steps may lead to unnecessary delay and expense in processing your request.

## **MODELS**

- \* **BDCM-200 Light Odors**
- \* **BDCM-400 Heavy Odors**

## **SPECIFICATIONS**

- \*Size.....7.75"x4.75"x2.25"
- \*Weight.....2 lbs.
- \*Color.....Black
- \*Enclosure.....ABS Plastic
- \*Power.....12Vdc@1Amp
- \*Watts.....12 Watts

## **FEATURES**

- \* U.S. COAST GUARD LAB APPROVED FOR USE IN THE BILGE!!!!!!
- \* All materials are corrosive free
- \* Maintenance free
- \* Self-cleaning corona discharge plates.
- \* Plug-in Replacement Ozone Generator Plates
- \* No moving parts
- \* 110Vac Adapter available

## **APPROVALS**

Bilge Buster Models BDCM-200 and BDCM-400 meets US Coast Guard 33CFR.183.410 Ignition Protection thus making it safe for operation in the bilge, where gasoline, diesel and propane fumes may exist. These models also meet FCC Part 15b Electronics Noise.

**SPECIAL NOTE: All fuel, water sanitation and any other Bilge hose must meet the requirements listed in SAE J1942 which set the standards for hose construction and performance levels that are essential to safe operations in the marine environment.**

## Miscellaneous Information

The Bilge Buster is a specific unit designed to be permanently mounted in the bilge. With the BilgeBuster operating continuously in the bilge, a blanket of Ozone will be created which will prevent odors in the bilge from reaching the living and berthing spaces above.

The Ozone produced will neutralize the odors from stagnant bilge water, holding tanks, mildew, musty odors, fiber glass-out gassing of formaldehyde, oil spills and fumes.

Ozone does not mask odors, it destroys the bond that holds molecules together. When those bonds are broken, the odor producing molecules are rendered odor-free. Continuous operation of the unit is recommended as the production of odors in the bilge is generally continuous.

Existing pollutants, temperature and humidity are all variables that will effect the amount of time it will take to initially eliminate unpleasant odors. Please allow 2-3 days of continuous operation to achieve satisfactory results.

**DO NOT-** open or tamper with the unit or the warranty **WILL** become void with the exception of the Ozone Generator Plug-in Module.

**DO NOT-** expect the unit to solve your problem **INSTANTLY!** In some extreme cases, the area being treated may require additional cleaning methods as well as operating the unit.

## An Ozone Air Treatment System

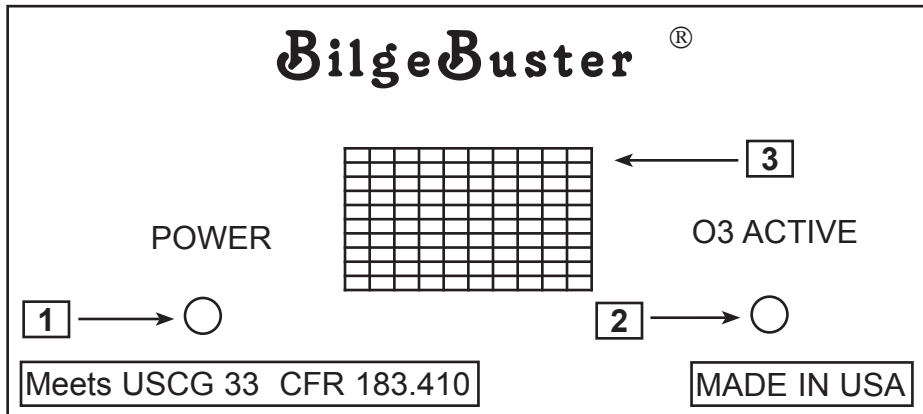
Ozone is a very powerful oxidant that is produced naturally. It is created in the stratosphere by ultraviolet rays from the sun, reacting with oxygen (The Ozone Layer). The resultant photochemical process forms ozone. Ozone protects us from exposure to the harmful UV rays of the sun.

When it rains, upper level ozone is combined with raindrops and falls to earth. During a severe storm, ozone is generated as the bolt of lightning passes through the air; the electrical reaction "excites" the oxygen molecules and creates ozone.

Ozone is also generated on earth in greater than normal amounts in highly polluted areas. Nature uses the photochemical process again to react to smog at the earth's surface. As pollution increases, the density of air increases. UV rays passing through the denser air are catalysts for a photochemical reaction that results in an increase in the concentration of ozone. As the ozone overcomes or oxidizes the pollutants, the air becomes less dense. Thus the self-balancing act of nature provides a natural purification of the air. The normal concentration of ozone in clean air is .03-. 05 PPM.

The **QUANTUM PURE AIRE AIR TREATMENT SYSTEM** is designed to create the above-mentioned level of ozone in your indoor environment. By doing so, ozone will be introduced into your home, office or Boat and will clean your domestic air as it does the outside air...**NATURALLY!**

## TOP PANEL



## OPERATING / INSTALLATION INSTRUCTIONS

1. Locate an appropriate area in the bilge from where most of the odors emanate. The higher up the better.
2. Affix the unit to the bilge using the four screws provided.
3. Secure the power cord to existing wire bundles or to the hull using the appropriate wire fastener 6"- 8" apart.
4. Connect the power cord to a 12VDC source at the DC distribution panel. The unit draws 750mA. Connect the **White wire to the Positive** terminal and the **Black wire to the Negative** terminal.  
**Optional AC Adapter:** Connect the power cord of the BilgeBuster to the AC adapter. Connect the **White wire to the Positive** screw terminal and the **Black wire to the Negative** screw terminal.
5. Connect the power cord female butt connector to the Bilge Buster male butt connector approximately 12" from the BilgeBuster.
6. After connection is made, turn power ON at the distribution panel. Or if an AC adapter is used, Plug the AC adapter to an AC outlet. Observe that the RED LIGHT and the GREEN LIGHT is also ON indicating that ozone is being produced.
7. The unit should be operated continuously when dockside or at anchor. The bilge is a constant source of odor and will require a continuous supply of ozone.  
**Caution:** DO NOT allow the unit to be submerged in water. Damage will occur.  
**NOTE:** Environmental conditions, odors intensity, temperature and relative humidity levels will effect the time necessary to control odors.

## INDICATING LIGHTS FUNCTIONALITY

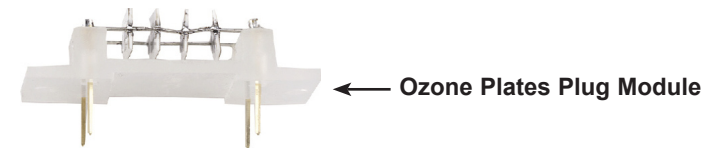
1. **POWER LIGHT:** This Red Light indicates that the unit is receiving power.
2. **O3 ACTIVE LIGHT:** This Green Light indicates that Ozone is generated.
3. **OZONE GENERATING PLATES:** This stainless steel cage Contains the ozone generating plates.

## INSTRUCTIONS TO REPLACE THE PLUG-IN MODULE

- The first step to replace the Ozone generator plug-in modules is to unplug the Bilge Buster from the power sources ( You can do this by unplugging the unit from the Male / Female connector )
- **Allow 2-3 minutes for the ozone generator to cool off.**
- With a flat tip screwdriver unscrew the two screws on each side of the stainless steel perforated metal cage.
- After the two screws have been removed, grab the entire ozone generator assembly and pull straight up to unplug from the cover of the Bilge Buster.

### Important Notes:

- a) Discard **ONLY** the white plastic Ozone plate retainer plug module.
  - b) You will re-use the Perforated metal cage and screws.
- Take the New Ozone plug-in module and the perforated metal cage and slide the perforated metal cage over the ozone plug module.



- Grab hold of the assembled plug-in module and plug in the 4-pins into the 4-sockets on the Bilge Buster cover.
- Secure the entire assembly with the two slot screws. Do not over tighten the screws.

***Your Bilge Buster is now ready to go back to work on your Boat Bilge!***

**To Order Ozone replacement module call 1-401-732-6770.**