



↗ DOMETIC

BREATHE 4500 AIR PURIFIER

The latest innovation of Dometic's air purification product, the Breathe Bipolar Ionizer keeps boats smelling fresh and clean while greatly reduces allergens, viruses, bacteria and pollutants.

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BREATHE AIR PURIFICATION

Dometic's Breathe Ion generator is the easiest way to upgrade any new or existing system to the latest in air purification technology. Two holes can be drilled anywhere in the path of moving air: in the blower housing, transition box, or directly at the discharge grille plenum. The unit can be wired directly to the fan output, so that it is only powered when needed. The wide input voltage range allows a one size fits all solution for our global customers. Power to device is simply plug and play. An LED light on top of the device clearly indicates it is functioning.

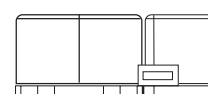
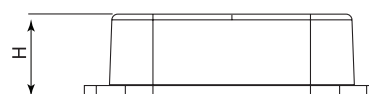
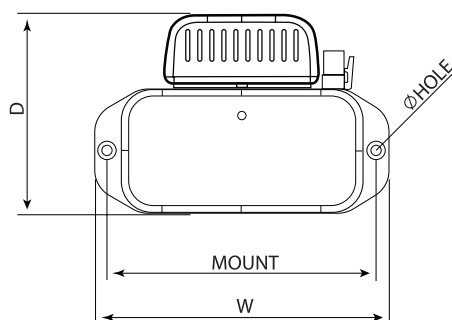
Ions travel through the air stream into the conditioned space for further air treatment. Traditional air treatment systems are only effective on the air in contact with the light as it passes through the device. Ionizers also provide a significant power savings over traditional air treatment systems.

Ionizers purify air through several methods. First, Positive and Negative Ions also help reduce pathogens, odors, and mold. Bacteria and virus cells are robbed of their life-sustaining hydrogen, reducing their number. Secondly, Odors are reduced when they oxidize on contact with the charged ions. These ions also reduce Volatile Organic Compounds (VOC) by breaking down their molecular structure. Lastly our ionizer creates both positive and negative ions which attach to the particles in the air. These attractive forces make particles effectively bigger and increases the capture rate of the air filter. This allows standard air filters to remove more particles from the air.

Benefits with Breathe

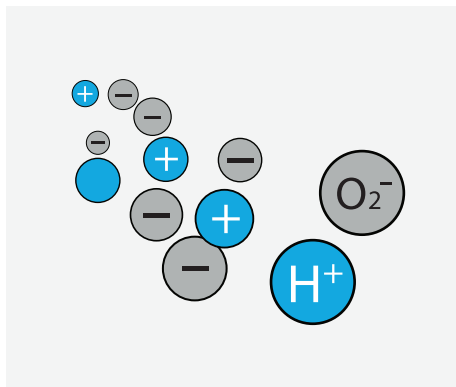
- 70VAC - 240VAC
- Reduce VOC, Allergens and Mold
- Drill and install
- No harsh chemicals
- Proven technology used in clean rooms and hospitals
- Simplistic installation - Plug provides a simple solution for installing the brushes
- Fan output - Can be connected directly to the fan output so unit is only powered when fan is operating
- Power Plug - Plug provides a simple solution for installing of the module
- LED Indicator - Light provides clear indication that unit is operating
- Flexible - Can be connected to blower outlet or directly to discharge grille plenum
- Brass inserts - For secure corrosion resistant mounting

Voltage	70 - 240VDC
FLA	50mA
Height (in/mm)	1.6 / 41
Width (in/mm)	5.4 / 138
Depth (in/mm)	3.7 / 96
Weight (lb/kg)	0.79 / 0.36
Mount (in/mm)	5 / 127
Hole Size (in/mm)	0.18 / 4.5



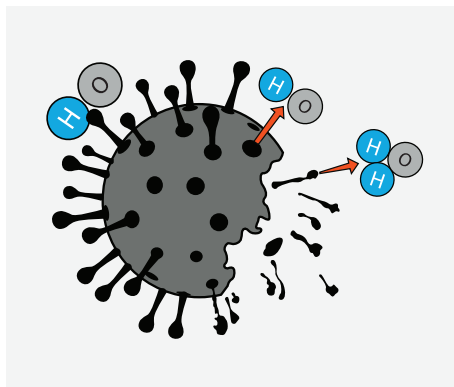
BREATHE AIR PURIFICATION

The main working principle of the positive and negative ion generator is to boost the input voltage and create negative high pressure ionized air (mainly oxygen). This generates a large amount of positive and negative ions. Simultaneous generation of ions in the air neutralize the positive and negative charges to generate a huge energy release, resulting in changes in the surrounding bacterial structure.



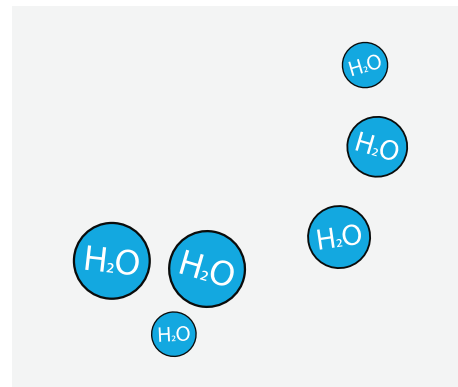
1. Ions are dispersed into the air

Positive and negative ions are created using water vapor in the air.



2. Two crispers

The ions neutralize their charge by pulling apart airborne pollutants, thereby reducing the pollutants in the air.



3. Ions return to the air

After neutralizing pollutants, ions are converted to water vapor.

Since the number of negative ions is larger than the number of positive ions, the excess negative ions are still floating in the air, which can achieve smoke prevention, dust removal, odor elimination, and improvement of air quality.



