

BiPolar ID-200



BiPolar ID-300



BiPolar ID-400

Advanced Air BiPolar Ionization Systems come in 3 sizes to meet the needs of small residential applications to larger commercial and industrial settings.

## SPECIFICATIONS

	BiPolar ID-200	BiPolar ID-300	BiPolar ID-400
<b>Air Flow (cfm)</b>	Up to 2000 cfm	Up to 3000 cfm	Up to 4000 cfm
<b>HVAC Size</b>	Up to 5 Ton	Up to 7.5 Ton	Up to 10 Ton
<b>Ion Production</b>	>200 million - and + ions/cc	>300 million - and + ions/cc	>400 million - and + ions/cc
<b>Technology</b>	Needlepoint BiPolar Ionization	Needlepoint BiPolar Ionization	Needlepoint BiPolar Ionization
<b>Mechanical</b>	Distribution via air handler	Distribution via air handler	Distribution via air handler
<b>Pressure Drop</b>	<0.01" w.c.	<0.01" w.c.	<0.01" w.c.
<b>Product Size (L.W.H)</b>	3" x 2" x 1"	3" x 1.75" x 1.5"	4" x 1.75" x 1.5"
<b>Weight (lbs.)</b>	Less than 1.0 lbs.	Less than 1.0 lbs.	Less than 1.0 lbs.
<b>Warranty</b>	3 Year Warranty	3 Year Warranty	3 Year Warranty
<b>Approvals</b>	UL 867, UL 2998, CSA STANDARD C22.2 No. 187-M1986, CE, ROHS REACH	UL 867, UL 2998, CSA STANDARD C22.2 No. 187-M1986, CE, ROHS REACH	UL 867, UL 2998, CSA STANDARD C22.2 No. 187-M1986, CE, ROHS REACH

# SCIENCE INSPIRED BY NATURE

Ions are naturally created outdoors by energy released from trees, rainfall, rushing water, waterfalls, crashing waves, lightning and even sunlight. Outdoors these naturally occurring ions work continuously to clean the air, and we notice this the most where ions are in their highest concentrations. Places such as: out in nature or a forest, at an ocean beach, near a rushing river or waterfall and after a rain storm. In nature, these ions help reduce airborne pollutants and freshen the air.

Indoors, concentrations of these naturally occurring ions are generally much lower; allowing airborne pollutants to stay suspended in the air and linger for long periods of time.



## Concentration Levels of Naturally Occurring Ions

	Condition of the environment	Concentration of negative ions in air (per cm <sup>3</sup> )	State of health
<b>Extremely Low</b> →	Factory with workers	0-50	May cause a variety of diseases
<b>Extremely Low</b> →	Indoor city area	60-150	Easily induces physiological disorders
<b>Low</b> →	Street with surrounding green trees	200-500	On the edge of physiological disorders
<b>Fair</b> →	Urban park areas	500-1000	Maintains basic needs for human health
<b>Normal</b> →	Outdoors / open field	1000	Strengthens the immune system of human body
<b>Ideal</b> }	<b>High mountain areas</b>	<b>2000-3000</b>	<b>Kills bacteria and reduces the spread of diseases</b>
	<b>Forest</b>	<b>2000-3000</b>	<b>Facilitates natural healing</b>
	<b>Waterfall</b>	<b>5000</b>	<b>Has natural healing properties</b>

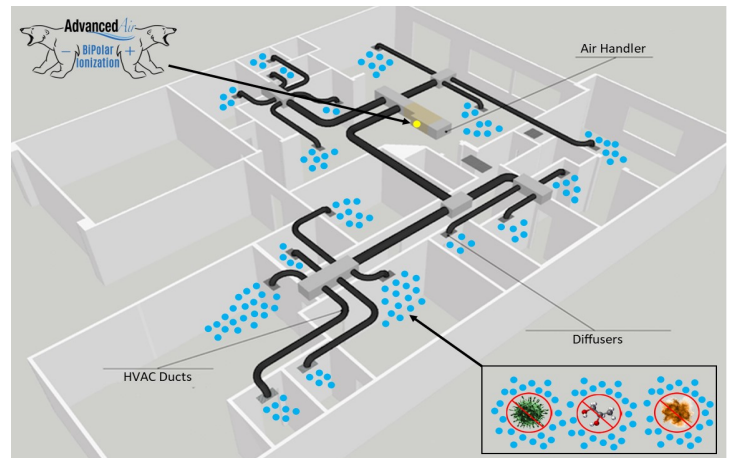
Advanced Air ID-BiPolar systems use bipolar ionization technology to create and emit these naturally occurring positive and negative ions into the airstream of a home or buildings existing HVAC system. These positively and negatively charged ions seek to attach themselves to pollutants which carry an opposite charge of that which the ion carries (ie. + seek - charged pollutants and vice versa). This helps reduce all 3 aspects of indoor air pollutants: Particulates, Pathogens and VOC's by increasing the indoor concentrations of these ions to levels found outdoors in nature. Creating a cleaner and healthier indoor environment.

# HOW IT WORKS

**1. Production:** Advanced Air BiPolar Ionization Systems create millions of positively and negatively charged oxygen ions, which occurs naturally outdoors from trees, rainfall, ocean waves, waterfalls, sunlight and lightning.



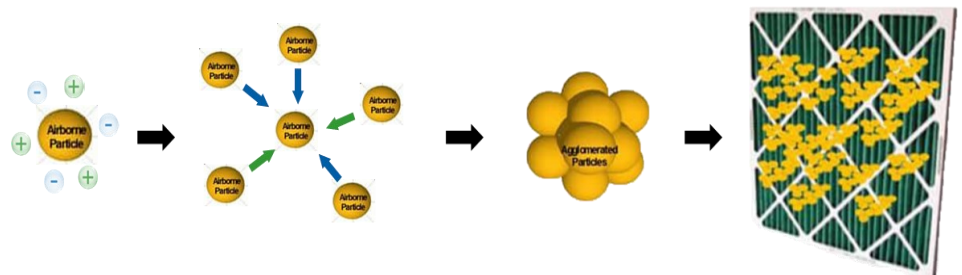
**2. Distribution:** Using the existing HVAC systems airflow, the ions travel through the ducts into each room the system services.



**3. Result - Pathogens & VOC's:** Charged ions interact with airborne particles, pathogens and VOC's. Charged ions trigger cell oxidation which inactivates (kills) airborne viruses, germs, bacteria, mold spores and microorganisms. The ions also attach to airborne VOC's which changes their chemical structure, rendering them harmless.



**4. Result - Particles:** Particles are charged oppositely, causing them to clump together into larger particles (snowball effect). This either makes the particles too heavy to be suspended in air, and they fall to the ground; or surfaces where they can be cleaned up; or the clumped particles surface area increases where they are easier to catch in a standard HVAC systems MERV filter and removed from the air.



# BENEFITS

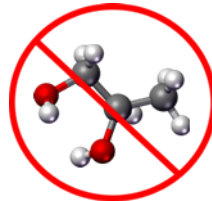
- Advanced Air BiPolar Ionization Systems use a nature based process to improve indoor air quality by creating hundreds of millions of positively and negatively charged ions. These ions seek to attach themselves to airborne pollutants such as particulates, pathogens and VOC's, removing them from the air; the same way mother nature does outdoors.
- Easy to install, compact size, and require very little maintenance.
- No filters to replace or future costs.



Particulates



Pathogens



VOC's



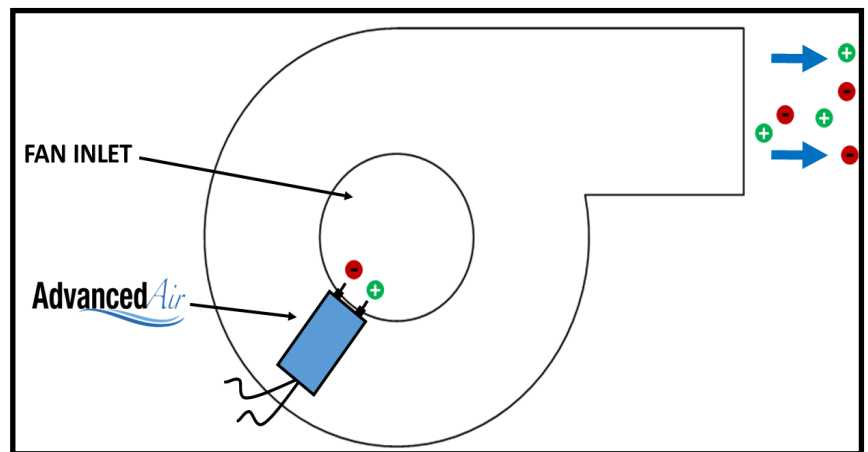
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# APPLICATIONS

- Residential
- Offices
- Schools
- Businesses
- Hospitals / Medical
- Dental Offices
- Doctors Offices
- Retirement Homes
- Restaurants
- Airports
- Places of Worship
- Gyms / Recreation
- Shopping Malls
- Retail Stores
- Government Buildings
- Sports Stadiums / Arenas

# EASY INSTALLATION

- Advanced Air BiPolar Ionizers are an easy addition to both new construction and retrofit applications.
- The units mount on the supply air ductwork or in the air handler itself; so no special provisions are required.
- Installation can generally be completed in 30 minutes or less.



Advanced Air's technology is used in a wide range of applications across diverse environmental conditions. Since locations will vary, clients should evaluate their individual application and environmental conditions when making an assessment regarding the technology's potential benefits.

The use of this technology is not intended to take the place of reasonable precautions to prevent the transmission of disease. It is important to comply with all applicable public health laws and guidelines issued by federal, state, and local governments and health authorities as well as official guidance published by the Centers for Disease Control and Prevention (CDC), including but not limited to social distancing, hand hygiene, cough etiquette, and the use of face masks.

**Advanced Air**  
Air Made Better.

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