

Whole House Indoor Air Quality Improvement

Ultravation®

# Orion™

Bi-Polar Air Ionizer for HVAC

**Freshens the air**  
**Reduces fine**  
**particulates**



**Ultravation®**

Better Air | Better Water | Better Living™

Improving Indoor Air  
There are millions of  
microscopic pollutants in  
indoor air that are too  
small for filters to capture

The Ultravation Orion Air Ionizer  
targets nano- and micro-particulates  
to reduce minute air contamination  
that can pass through filters as well  
as human defenses. The Ionizer:



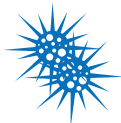
Groups Microscopic and  
Nano Particulates



Removes Smoke



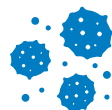
Reduces Odors & VOCs



Destroys Allergens



Kills Bacteria & Viruses



Stops Bio-growth



No Ozone (Model OR245T-2998)

Ultravation®  
**Orion™**

Bi-Polar Air Ionizer for HVAC



It is great to experience the freshness in the air near a waterfall, after a summer storm, or just during a walk in the woods. The rushing water of streams, photosynthesis, even sunshine itself creates ions that naturally cleanse and rejuvenate the air.

**Ultravation Orion™**  
 Air Ionizer mimics nature to improve the air in your home or office in multiple ways:



**Reduction of microscopic particulates**

Very small particles are of concern because they can penetrate deep into the lungs, sometimes entering the bloodstream. The generated ions statically charge particulates causing them to attract into groups heavy enough to either fall out of the air, or be captured in filtration. According to ASHRAE\*, ionization added prior to a filter **will increase filter capacity by at least 20%** (see Strategic Installation Points at right). Placing an Orion air ionizer close to a filter will continuously sterilize the filter.

**Reduction of bad odors and VOCs**

The charged ions also react with the molecules of common household odors and VOCs, from cooking, bathrooms, laundry, cleaning products, smoking and many, many more to be neutralized or broken up.

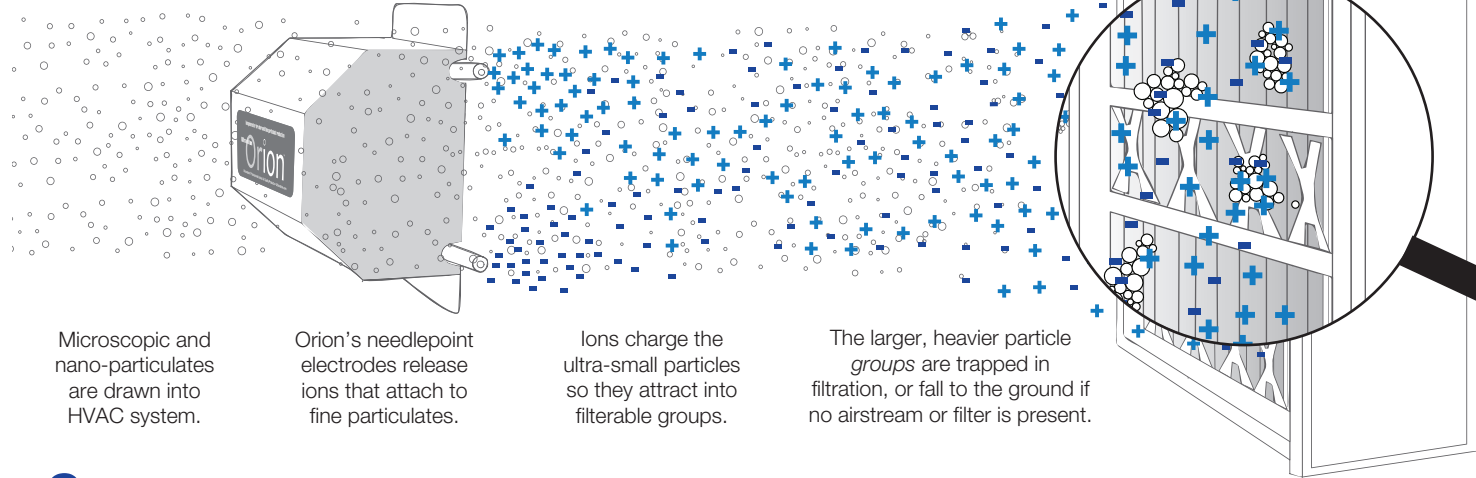
**Reducing viruses and bacteria**

The ions generated are germicidal. Contact with bacteria and viruses in the air and on surfaces (including filter fibers, see above) disrupts their chemical balance, and inactivates them.

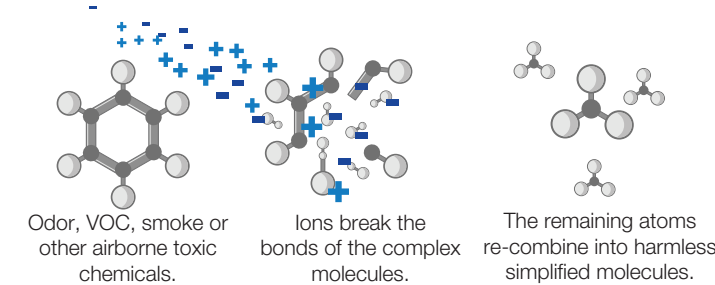
**Fresher, healthier air with Orion bi-polar ionization**

**How Orion ionization reduces air contamination**

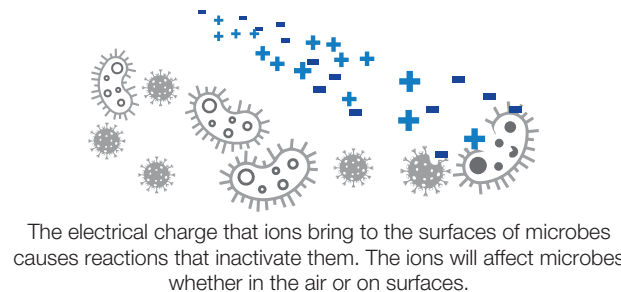
**1** Fine particulates are forced to gather into filterable groups



**2** Odor and VOC molecules are broken into component parts



**3** Electrical charges disrupt the chemical balance of microbes



*Strategic installation points—Orion's needlepoint electrodes adjust to meet the need*

Whether used for air freshening or to increase particulate removal, Orion's electrodes adjust to optimize your positioning strategy.



When installed near filtration, the grouped particulates are immediately captured by filter fibers. The ions also prevent microbial growth on the filter.



When installed near the blower, in the plenum or ducts delivering air to living spaces, odor and VOC reduction is maximized, and is the optimum location for air freshening.



Learn more at [Ultravation.com](http://Ultravation.com)

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\*ASHRAE: The American Society of Heating, Refrigeration and Air Conditioning Engineers

# Orion™

## High Performance Ionizer Features

Bi-Polar Needlepoint Air Ionizer for HVAC



### HVAC integration

Whole house effective! The HVAC system circulates all the air in the home through ionization for silent, even and unobtrusive indoor air quality (IAQ) improvement.

### Ion generation

Friendly ions freshen the air and enable the capture of airborne microscopic particles that can pass through HVAC filtration.

### Flexible IAQ solution

Can be used independently or in combination with other IAQ improvement products.

### Reliable

Maintenance-free, no parts to replace. Constructed with rugged U.S. sourced steel. 5-year warranty.

### Adapts to any HVAC system

Connects to any 24 VAC transformer or any existing Ultravation® 24 volt IAQ product. 6 ft. quick release power cord included. Magnetic mount included. Wall plug-in adapter available.

## Models

OR245T

Ion Generator for HVAC systems up to 6 ton

OR245T-2998

Ion Generator for HVAC systems up to 6 ton  
Conforms to UL 2998 (3rd Edition, July 10, 2020) clause 6.2, emittance of ozone not exceeding a concentration of 0.005 ppm.

Available from:



**Ultravation®**  
Better Air | Better Water | Better Living™  
[Ultravation.com](http://Ultravation.com)

**Designed and manufactured by Ultravation, Inc. • Ultravation.com**

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Member:



*Install in accordance with owner's manual instructions and safety guidelines, as well as national and local electrical codes.*