

### Package Contents:

- 1 Orion Ion Generator
- 1 6ft 2 conductor power cord
- 1 In line fuse
- 1 Return duct mounting plate
- One industrial mounting magnet
- 2 self tapping 3/4" hex screws
- 3 1/4" Phillips head screw for magnet mounting and optional mounting plate
- 2 circular foam gaskets
- \*\* Some models ship with a 110 wall plug converter with a 6ft power lead.

### Safety Precautions:

It is recommended that this unit be installed and maintained by a trained technician.

### Warning

RISK OF FIRE, ELECTRIC SHOCK OR INJURY

THIS PRODUCT MUST BE INSTALLED WITHIN THE HVAC SYSTEM OR DUCT WORK.

THERE ARE NO USER SERVICEABLE PARTS

DISCONNECT POWER WHILE INSTALLING OR SERVICING THIS PRODUCT.

NEVER TOUCH THE PROBES WHEN ENERGIZED!

NOT INTENDED FOR OUTDOOR USE

## ProgressiveMedia™ Whole House Air Cleaning



To further enhance your indoor air quality try an Ultravation ProgressiveMedia Air Cleaner with your Orion. We manufacture the filter frames that house our Progressive Media filters to the same quality standards as our high performance filter media. Built with 100% U.S origin, galvanized steel and powder coat finish, we back all of our filtration equipment with a ten year warranty.

For more information on Progressive Media Whole House Air Cleaners go to:

[www.ultravation.com](http://www.ultravation.com)

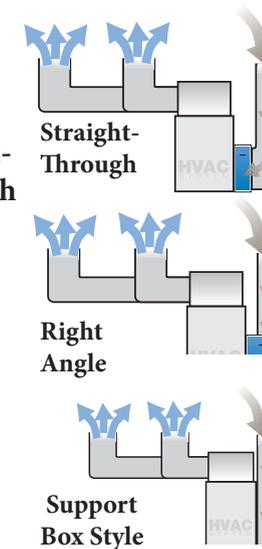
### Warranty:

Ultravation® Orion offers the Ultravation five year warranty after date of consumer purchase. This warranty does not include damage to the unit from accident, misuse or improper installation.

If this product should become defective, Ultravation will elect to repair or replace the product free of charge. Ultravation will return repaired or replaced warranted products pre-paid to the customer, provided that the product was delivered pre-paid.

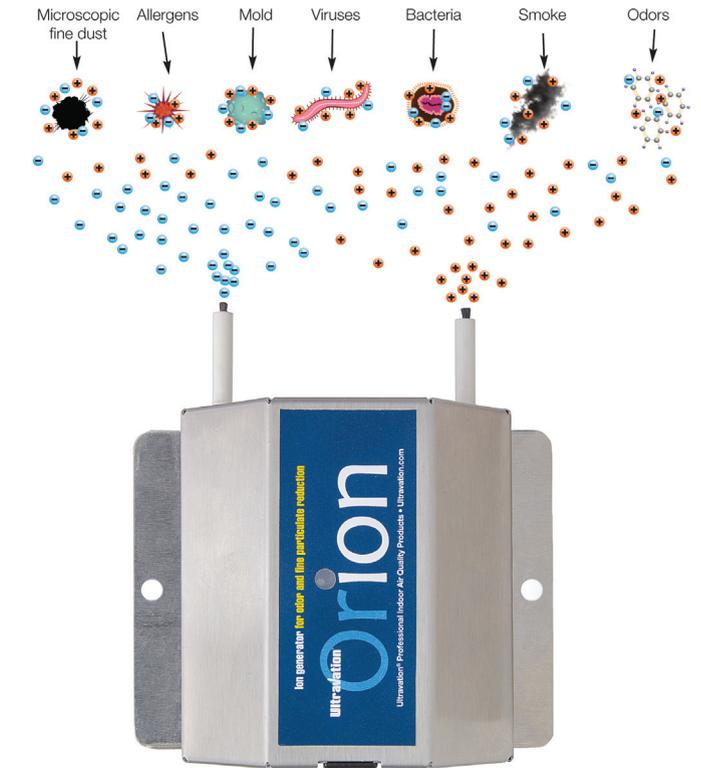
Ultravation shall have no responsibilities for charges incurred by the customer for installation or removal of warranted items. Liability is limited only to the replacement or repair of this product.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. All returns must be accompanied by a return authorization number, which may be obtained by contacting Ultravation, Inc.



## Ultravation®

Professional Indoor Air Quality Products



Ion generator for HVAC systems

Model OR245T

## Determining Installation:

The Orion Ion Generator is uniquely designed to be installed either internally or externally to most HVAC systems. External mounting is typically done when metal return ducting is present. Installing the Orion prior to any system filtration ensures that any charged particulate matter will collect into the HVAC filter.

The Orion system may also be installed internally on most furnace and air-conditioning systems.

The installing contractors take all installation and equipment variables into consideration when determining the final installation point.

### **Preparation for external mounting only:**

*External plate*



*Rotate probes 90 degrees*



*Attach bracket*



Use the external adapter plate when installing the Orion system to metal duct work. First rotate the probes 90 degrees. Use the supplied self tapping 10-32-1/4" screw. Attaching the plate ensures that there will be no air leakage from the duct work after the installation.



Air flow should pass over both probes at the same time for optimum performance

## Installation Procedure

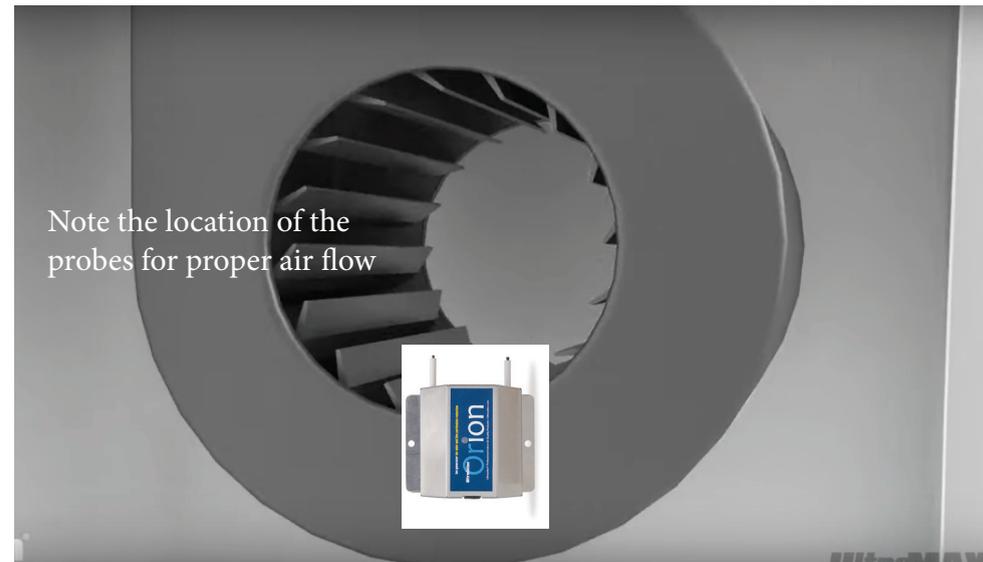
1. Disconnect main power to the HVAC system(turn applicable breakers off)
2. Determine a location on the duct, use a pencil to mark the location of both probes on the duct work.
3. Drill 2 1/4 dia. holes. 4. Mount the Orion with supplied screws 5. Attach power cord
6. Attach leads of power cord to a 24 Va. transformer (polarity is not a concern).
7. Restore power
8. The Orion has a white power indicator on the front of the label (ensure that the led is illuminated).

## **Preparation for internal mounting only:**

Important! Note the position of the probes



Attach the magnet to the Orion with the supplied 10-32-1/4" screw. You can also use supplied self tapping screws to permanently mount the Orion.



## **Installation procedure:**

1. Disconnect main power to the HVAC system(turn applicable breakers off).
2. Remove access door to the equipment
3. Mount the Orion either with the magnet or with supplied screws
4. Attach power cord.
5. Attach leads of power cord to a 24 Va. transformer (polarity is not a concern).
6. Restore power 8. The Orion has a white power indicator on the front of the label (ensure that the led is illuminated).

**IMPORTANT:**  
Probes should be a minimum of  
1-1/2 inches from any metal.

## Electrical Requirements

This product operates on 24 VAC

It is recommended to connect to a dedicated transformer.

If using the optional wall plug in transformer connect only to 110/120 VAC circuit.

## Maintenance:

Periodically it is recommended to clean the brushes to ensure years of optimum performance. This is a common practice when changing the HVAC filters.

To clean the brushes simply, disconnect the power. Remove the Orion if there is no immediate access to the brushes. The brushes can be cleaned using compressed air or a clean rag to dislodge any accumulated dust.

### **Ultravation, Inc.**

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