

## Maintenance:

Periodically it is recommended to clean the emitters to ensure years of optimum performance. This is a common practice when changing the HVAC filters. To clean the emitters simply, disconnect the power. Remove the CIS product if there is no immediate access to the emitters. The emitters can be cleaned using compressed air, tooth brush or a clean rag to dislodge any accumulated dust. At a minimum this is recommend to be performed annually.

## Warranty:

The UVMatrix CIS-6 by Ultravation is provided with a 5 year warranty from date of installation. (minimum expected lifetime of product within normal operating conditions) 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.

## Specification:

Capacity	4-6 tons
Operating Voltage	24,120,208, 240,277 VAC 50/60 Hz.
Power Consumption	24 watts@24 VAC
Total ION Output	>320M ions/cc
Material	Galvanized,Steel/ Carbon, probes.
Temp Range	-30-180 deg. F
Humidity Range	0-100% RH
Width	5.75 inches
Height	4 inches
Depth	3 inches
Probe length(x4)	3 inches
Product weight	1.6 Lbs.
Warranty	5 years



Visit [Ultravation.com](http://Ultravation.com)  
to see more variations  
(CIS-36 ton model shown)

**Ultravation**<sup>®</sup>

Better Air | Better Water | Better Living<sup>™</sup>

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# UV Matrix CIS<sup>™</sup>

Commercial Grade  
Needle point bipolar ionization system



Owner Manual Installation  
Guide Models:  
**UV-Matrix-CIS-6**  
**UV-Matrix-CIS-6-2998**

**Ultravation**<sup>®</sup>

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## Package contents:

- 1 UVMatrix-CIS 6 Ion Generator.
- 1 6 ft. 2 conductor power cord.
- 1 In line fuse.
- 1 duct mounting plate.
- 1 mounting magnet.
- 4 self tapping 3/4" hex screws
- 3 1/4" Phillips head screw for magnet mounting and optional mounting plate
- 2 circular foam gaskets
- 1 multi-tap 24 VAC. transformer 40 VA. 120,240,277 operation.
- 2 wire nuts

## Safety precautions:

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

**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.  
NOT INTENDED FOR OUTDOOR USE**

## Electrical requirements:

This product operates on 24 VAC  
It is recommended to connect to the supplied dedicated transformer.

## Determining installation:

The CIS series 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.

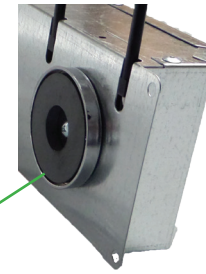
Installing the CIS-6 prior to any system filtration ensures that any charged particulate matter will collect into the HVAC filter.

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

Take all installation and equipment variables into consideration when determining the final installation point.

Unique adaptable design allows for installation  
pre-filtration or post or both

*Utilizing 2 units allows for greater coagulation effects essentially increasing the MERV rating of filtration, while allowing for uninterrupted air purification. As most filters are electrostatic and cancel out the ionization field during the sterilization process*



Magnets supplied for  
Ease of internal mounting

Post filter option allows for in-  
creased contact time with VOC's and  
Airborne pathogens.



Providing both installations maxi-  
mize performance as most filters  
neutralize the effects of the IONS.

Pre filter option allows for increased  
filter performance charging particles  
to clump together increasing filter  
capture!

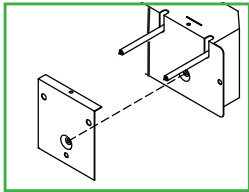
## Installation steps:

### Step 1 Location

Disconnect power and shutdown the system while installing or maintaining the product.

#### Pre- Filter installation:

Determine mounting style (orientation of emitters see previous page).  
Rotate the emitters as necessary.  
if mounting externally use included sealing plates.(See below).  
Affix plates with supplied 3/4" hex screws.  
If mounting internally use supplied magnets.



Sealing plate used for external mounting

#### Post Filter installation:

Determine mounting style (orientation of emitters see previous page).  
Rotate the emitters as necessary.  
if mounting externally use included sealing plate.(See above).  
Affix plate with supplied screws.  
If mounting internally use supplied magnets.

Once a suitable location has been established used the supplied screws to mount the CIS system in place

Ultravation products are manufactured and assembled in the Green Mountain State of Vermont.  
Please visit [ultravation.com](http://ultravation.com) to learn more.



**Ultravation**<sup>®</sup>  
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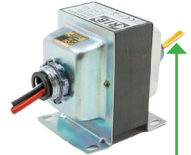
EPA establishment number : 074725-VT-001

## Installation steps:

### Step 2 Power

Using the supplied transformer or recognized equivalent make the appropriate electrical connections note the CIS system operates completely on low voltage 24 Vac ! Do not connect directly to line voltage.

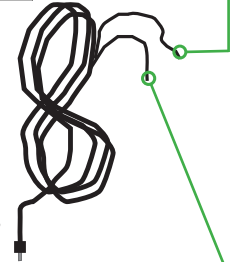
PRIMARY WIRES	SECONDARY WIRES
Brn - 277 Vac	Yel/Wht - 24 Vac
Org - 240 Vac	
Red - 208 Vac	
Wht - 120 Vac	
Blk - Comm	Yel - 24 Vac



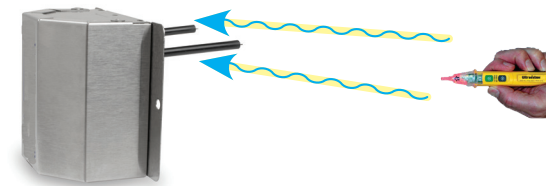
### Step 3 Power

Connect power leads to transformer.  
Plug the cord into the CIS.  
Reconnect main power  
System is active

*Notice the operation of the LED on the CIS*



AC Leads connect to yellow wires. Polarity does not matter.



Individual operation can also be determined by using a non conductive test tool. place the tool near the energized emitter, the tool will light or beep indicating power

Regardless of the installation be sure to allow the airflow to go across the probes evenly as to prevent the ions from prematurely recombining in the atmosphere or canceling out the effect.