

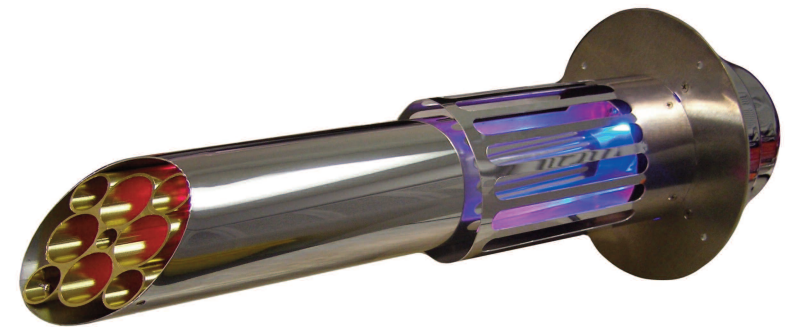
TopTech

comfort | excellence

*Air Knight REME*TM by RGF®

New Advanced Environmental Air Treatment System

Thank you for purchasing the Air Knight REME
We are confident this system will provide you with years of
Fresh, Clean and Odor-Free Air!!!



NOTE: Please take time to read the attached assembly instructions.
All instructions and precautions should be adhered to while
operating this system.

The Air Knight REME™ by TopTech

The Air Knight REME™ is designed to help eliminate sick building syndrome risks by reducing odors, air pollutants, VOCs (chemical odors), smoke, mold, bacteria and viruses. The Air Knight REME™ units are easily mounted into existing air conditioning and heating system air ducts where most sick building problems start. When the HVAC system is in operation, the Air Knight REME™ Cell creates an Advanced Oxidation Process consisting of: Ionized Hydroperoxides, superoxide ions and hydroxide ions. All are friendly oxidizers. By friendly oxidizers we mean oxidizers that revert back to oxygen and hydrogen after the oxidation of the pollutant.

Typical Installation

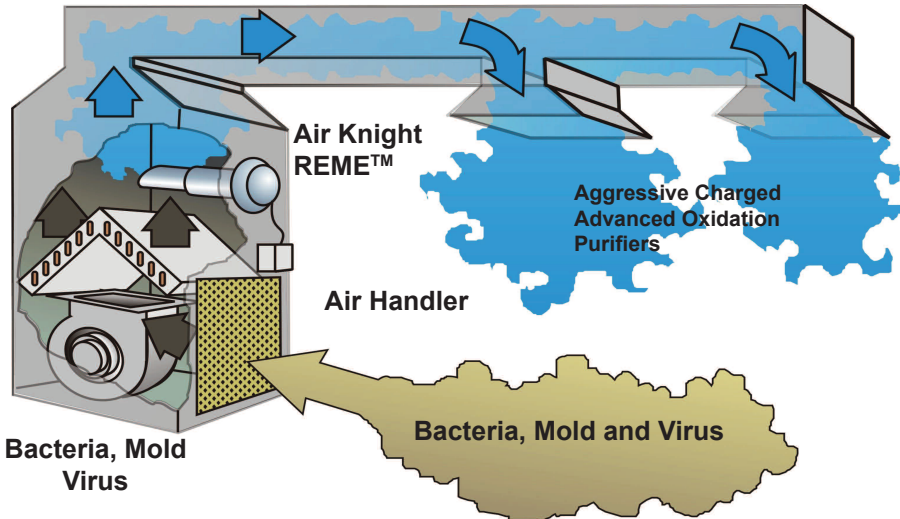


Figure 1

Air Knight REME™ Cell Features

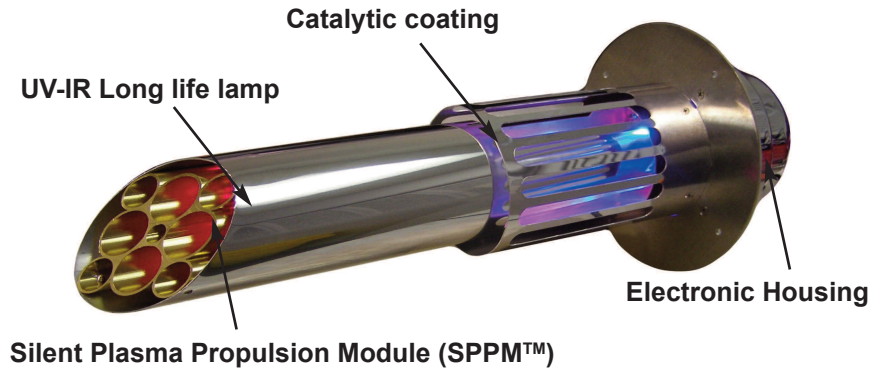


Figure 2

WARRANTY REQUEST FORM (INCOMPLETE FORMS WILL NOT BE PROCESSED!)

RETURN AUTHORIZATION NO. _____

CONTRACTOR:

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIPCODE _____

CONTACT _____ PHONE _____ FAX _____

WHOLESALER:

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIPCODE _____

CONTACT _____ PHONE _____ FAX _____

EMAIL ADDRESS _____

UNIT: MODEL # _____ SERIAL # _____

DISTRIBUTOR INVOICE # _____ DISTRIBUTOR P.O. #: _____

DATE OF SALE: _____ OVER THE COUNTER EXCHANGE? YES NO

IF YES, SERIAL # _____

ITEM(S) SUBMITTED FOR WARRANTY:

1) _____

2) _____

REASON(S) FOR RETURN:

NOTE: THIS COMPLETED FORM MUST ACCOMPANY ALL RETURNED ITEMS WITHIN 30 DAYS FOR PROCESSING SHIP TO YOUR DISTRIBUTOR

**Air Knight REME™ CELL
INSTALLATION INSTRUCTIONS**

**CAUTION: NEVER LOOK DIRECTLY AT AN ILLUMINATED PHI CELL.
THIS DEVICE PRODUCES GERMICIDAL UV LIGHT AND WILL CAUSE
DAMAGE TO EYES**

Your kit contains the following:

- Air Knight REME™ HVAC unit with adhesive backed mounting plate
- Adhesive backed foil mounting ring
- Four (4) mounting screws
- Instructions and warranty card

**NOTE: DO NOT USE UNIT IF POWER CORD IS DAMAGED.
PLUG MUST BE ACCESSIBLE AT ALL TIMES.**

INSTALLATION INSTRUCTIONS:

1. Determine the Mounting Location:

- To maximize the effectiveness of the Air Knight REME™, it is recommended (whenever possible) to install the Air Knight unit in the air plenum just after the air handling unit (supply side). Refer to Figure 1 for clarification.
- As drilling/cutting holes into the duct are required, it is recommended to install the Air Knight unit outside any existing HVAC air handling unit (this will prevent any possible damages to the HVAC unit during the installation process).
- When locating the unit, always allow for positioning near a suitable power source.
- Once a suitable location is determined, position the Air Knight REME™ midway in your air duct (make sure you have allowed enough room to accommodate the 5-1/2" round mounting plate when finalizing your mounting position).
- Using a 3.25" hole saw (or other suitable means) cut a 3.25" hole into the plenum / duct box AFTER the fan. Cutting into fiberboard is usually easier than metal, and can typically be done with a utility knife (Figure 3). Be sure you are drilling into the ductwork only and not penetrating into the mechanical areas of your HVAC system.



Figure 3

2. Mounting Unit:

- Secure the mounting plate to the air duct by first peeling the paper backing off the self-adhesive sealing ring affixed to the back side of the mounting plate (be sure the mating area of the duct surface is clean and dry), refer to Figure 4.



Figure 4

What if I find damage to the equipment after the carrier leaves?

- Claims for concealed shipping damage must be reported to the carrier and a copy sent to your supplier in writing via telefax or certified U.S. Mail within fifteen (15) days from the date of delivery.

Note: Please take note that the carrier will not cover the damages if these steps are not adhered to.

Steps to take when you have determined that your equipment is malfunctioning within the warranty period.

- Call your distributor and notify them of the problem or malfunction. (It may be a simple problem or oversight with a simple solution)
- If it is determined that a part is malfunctioning due to a defect, ship unit to your supplier or call supplier for other means of return. The Equipment Warranty Form should be completed and included.
- Your supplier will repair or exchange the defective unit with a working replacement.

Things I should do to avoid problems or injuries when running my Air Knight Equipment.

- Thoroughly read and understand all Operating Instructions, Warnings and Precautions before commencing application.
- Place unit in a dry area when possible.

What service can I expect from my distributor?

- Your distributor will assist you with any problems or questions you may have.
- Sell you optional parts or equipment as needed.
- Assist you with any warranty problems and provide you with a Warranty Request Form (which is required when sending a warranty unit back to the manufacturer for repair or replacement).

LIMITED WARRANTY COMMON QUESTIONS

How long is the warranty?

- For two (2) years from initial start up.

How do I contact the Manufacturer about my warranty, a question or complaint?

- Your local Sales Representative may answer a question or complaint.
- If they cannot answer the warranty question or complaint, you can contact your local supplier and request the warranty department.

Are there any parts not covered by this warranty (that the manufacturer will not repair or replace)?

- Yes. Parts damaged by decomposition from chemical action, humidity, moisture, or wear caused by abrasive materials. It does not cover damage resulting from misuse, abuse, or any other use other than its intended use. This warranty does not cover accident, neglect, or from improper operation, maintenance, installation, modification or adjustments.
- Parts not made by Manufacturer. However your supplier will process the claim with the other manufacturer.

What do I do in the event the equipment is damaged in shipping?

- Immediately upon receipt of the unit, you as the purchaser should inspect the unit and test it to make sure it is operational.
- If there is visible damage to the equipment:
 1. Notify the carrier shipping office immediately and write on the Bill of Lading the visible damage or part(s), which are broken or missing.
 2. Call your local supplier immediately to specify the damage.
 3. Your supplier should refund the unit at the supplier's cost.
 4. Your unit will be replaced or repaired as soon as possible.

- Insert probe into opening with the arrow indicator going in the same direction as the airflow of the hvac unit. Once attached to duct, press firmly all around flange to ensure a proper seal, refer to Figure 5.
- In some installations it may be preferred to leave the adhesive paper backing on (old metal ducts or a very rough surfaces), and secure the unit with the screws (provided) via the four mounting holes located on the Air Knight REME™ units mounting plate.

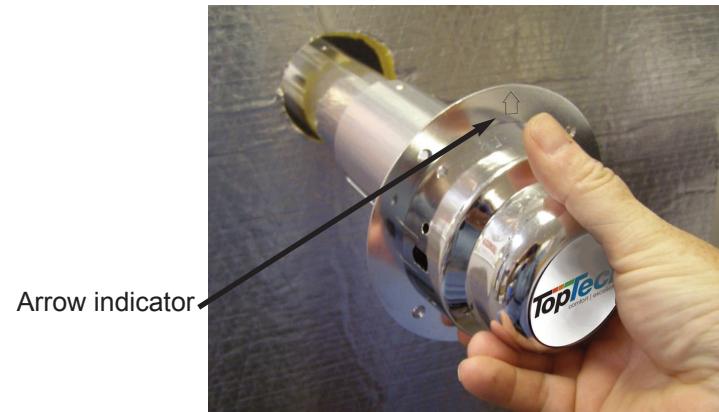


Figure 5

- Once unit is secured, apply the foil sealing ring to ensure an airtight seal. Remove the paper backing, center over unit, smooth and press firmly over entire surface to ensure a good seal (make sure corresponding sealing surface is clean and dry), refer to Figure 6.



Figure 6

3. Electrical Connection:

- TopTech recommends for optimal performance and maximum cell life that the Air Knight product line operates when the fan is running. For wiring assistance see installation instructions in this manual.
- The Air Knight REME may be connected to any suitable 24 VAC source with an available excess of current of at least 700 mA. When installing a multiple lamp configuration on an HVAC unit, it is recommended that a secondary dedicated 24 VAC source be utilized, and sized for at least 700 mA per installed Air Knight unit. Verify the available volt amps of the unit you are connecting to, prior to any installation. This can be done by checking the current and voltage of the 24 VAC transformer under full load (VA= Volts under load x Amps under load), and comparing this to the ratings listed on the transformer. When using a secondary transformer, ensure it is installed in accordance with all applicable local codes by a qualified installer.
- Locate the control panel of the air handler. Find the 24 VAC transformer or the 24 VAC terminal strip. Allow the 24 VAC power leads to reach the 24 VAC low voltage transformer or terminal strip. Use the provided wire splices for the electrical connections (ensure any connections used conform to local codes), refer to figure 7 for the low voltage electrical schematic.

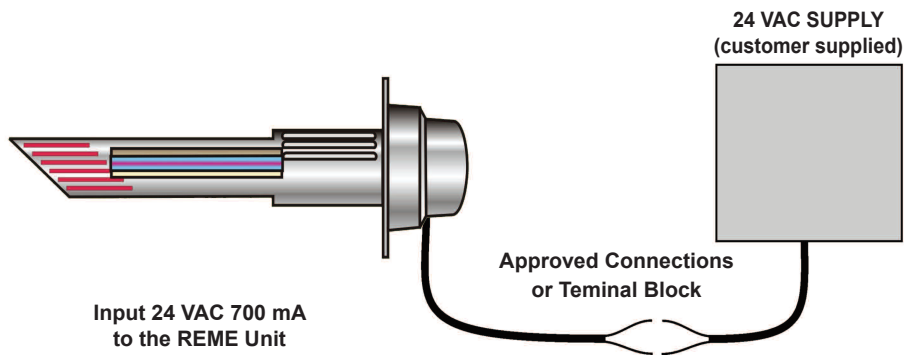


Figure 7

CAUTION: ENSURE THAT THE 24 VAC POWER SUPPLY THAT UNIT IS BEING CONNECTED TO, IS CAPABLE OF SUPPLYING AT LEAST 700mA OF CURRENT FOR EACH GUARDIAN AIR BEING INSTALLED ON THE CIRCUIT.

LIMITED WARRANTY

This warranty supersedes and replaces any warranty statements made orally by the Sales Person, Distributor, or Dealer, or contained in the written instructions or other brochures or informational documents related to this product.

Manufacturer warrants the new Air Knight equipment to be free from defects in material and workmanship under normal use and service when operated and maintained in strict accordance with manufacturer's instructions for a period of twenty four (24) months from the date of receipt of equipment. (For international orders twelve (12) months parts only. Shipping not included.)

Manufacturer's obligation under this warranty is limited to repairing or replacing any part found to its satisfaction to be so defective. The manufacturer at its discretion may replace / exchange the defective unit up to 90 days from the date purchase. Hereafter it will need to be returned under a Returned Materials Authorization (RMA) for review and or repair (if found defective). This warranty does not cover parts damaged by decomposition from chemical action or wear caused by abrasive materials, nor does it cover damage resulting from misuse, abuse, or any other than its intended use, accident, neglect, or from improper operation, maintenance, installation, modification or adjustments.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

To obtain warranty service and return authorization number, contact your supplier.

Include a copy of your Bill of Sale, Invoice or Receipt of Purchase, with an explanation of the problem or defect.

Hg- LAMP CONTAINS MERCURY Manage in accord with disposal laws.
See: www.lamprecycle.org

FAQ (Frequently Asked Questions):

Is it O.K. to run the unit all the time, or is it better to cycle with the fan?

The Air Knight unit treats your home when the HVAC unit fan is on. It is recommended to leave your fan on continually when possible to provide maximum benefit. However, cycling the unit on and off with the fan is acceptable, but be aware that excessive repeated cycling may degrade the useful life of the cell elements, TopTech recommends running the unit continuously.

Can the unit be installed on the return air side of the HVAC?

The best location for your Air Knight unit is in the plenum, just after the air handler. This allows for full distribution and extended air treatment. In situations where it is somehow impossible to locate the unit after the HVAC unit, it is acceptable to locate the Air Knight unit before the HVAC unit; however, the high moisture content of the cooling coils, as well as the high temp of the heating coils will reduce the effective treatment capacity of the unit.

If the Blue Indicator lamp is not illuminated, is my REME™ cell not working properly?

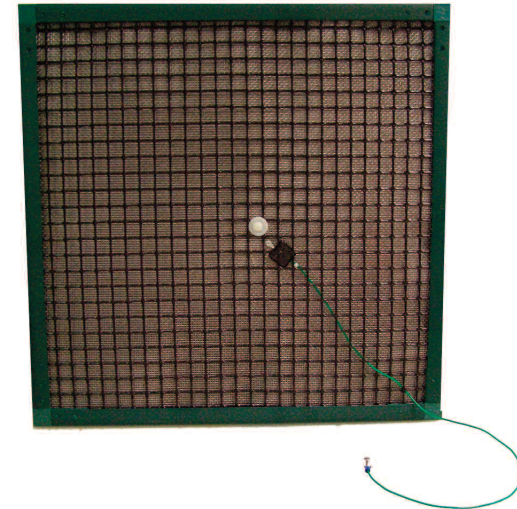
In some instances that may be the case, however, it could also mean that the unit just needs to be reset. Contact your HVAC contractor to perform this.

After two years my Air Knight unit indicator light still glows blue, so it is still working right?

The blue indicator light does in fact let you know if the unit is operating or not. However, it does not indicate the relative output of the unit. The output of the unit reduces with time, and after two years of operation, it is recommended to change out the replaceable REME™ cell insert to maintain optimum effectiveness of the unit.

4. Particle Collector:

- If your unit came with the optional particle collector, this must be sized by your HVAC contractor to ensure a proper fit into your existing HVAC filter frame holder.
- Once sized, the installer would connect the green grounding wire to a suitable grounded surface (if already properly grounded, the filter holder frame or the HVAC housing are suitable). This ground bonding is critical to optimize the performance of the collector, and should be determined by the installer.
- Once installed, the collector will need to be cleaned on a regular basis (determined by the loading levels in your particular environment). It is recommended that the collector be inspected monthly until the proper cleaning interval is determined.
- To clean the collector, simply disconnect the press together wire terminal for the collector ground, and remove the collector from the frame in the same manner as a standard type HVAC filter.
- Once removed the collector may be vacuumed with a shop-vac type vacuum, or cleaned with a garden hose (a mild washing detergent solution may also be used).
- Once cleaned (and if washed, then dried), replace the collector in the same location in your HVAC filter frame, and then reconnect the bonding terminal.



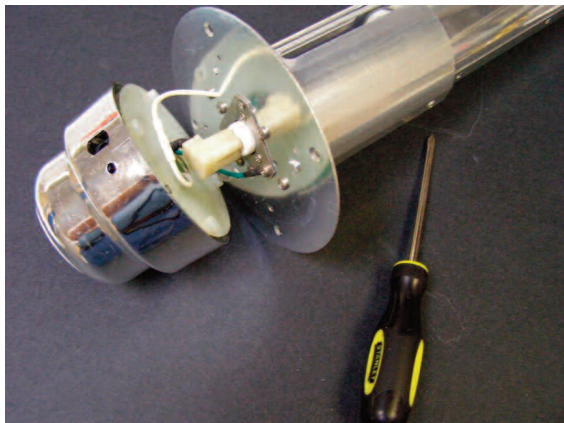
**Replacing REME™ Cell:
BEFORE CHANGING PHI CELL COMPLETELY DISCONNECT
FROM POWER**

•Remove unit from duct: Unscrew four mounting screws (if used), cut aluminum sealing ring, and then gently pry away from surface of duct. If mounting adhesive was used, slowly separate mounting plate from duct surface by breaking the adhesive seal with a thin flat object such as a metal putty knife.

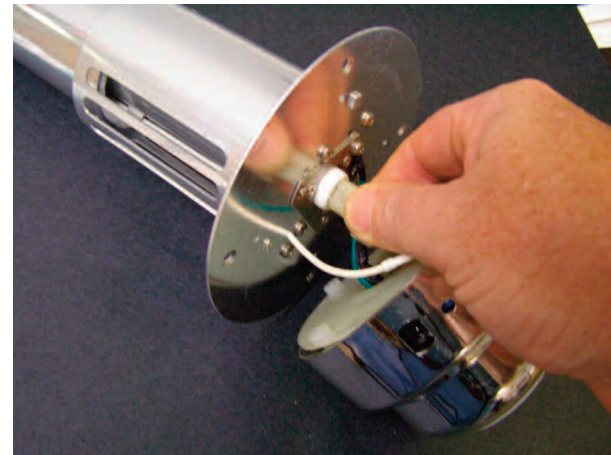
•With the Air Knight REME™ Assembly removed, remove four (4) Phillips screws from back of mounting plate and remove the domed housing (if adhesive sealing ring was used, this will need to be scraped away with a putty knife to reveal screws).



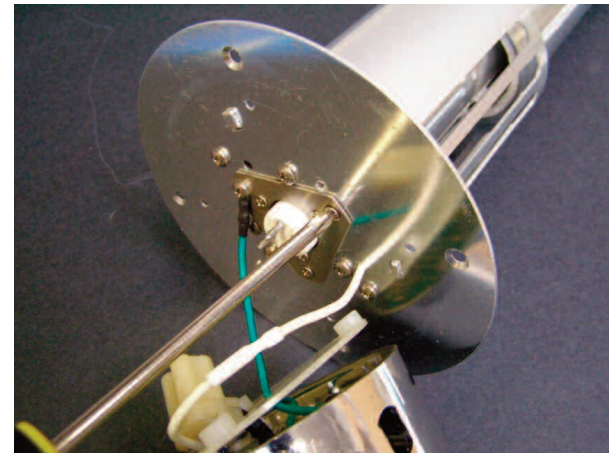
•Once housing is free from mounting plate, carefully free connector from REME™ Cell.



•Firmly grip lamp connector and with a gentle rocking motion remove connector from cell pins.



•Remove three (3) Phillips screw attaching REME™ cell to mounting plate



•Replace with new REME™ Cell and reassemble unit.