air+health HAVEN

HAVEN

INSTALLATION & USER MANUAL



Whole Home Protection™

PLEASE READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY
before proceeding with the installation.

Scan QR: install guide
airhealth.com/diy-installation/

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Thank you

Thank you for choosing to buy an Air+Health air purifier.

We **BELIEVE** in safe spaces.

We are **DEDICATED** to making the best air purifiers on earth to enable you to live your healthiest life.

We **STRIVE** to apply the best technology and research into delivering you safe and clean air.

The Air+Health™ Haven unit is designed to emit powerful ultraviolet light rays which sterilize and reduce airborne microorganisms as they pass through a home's heating or air conditioning system. It is installed in the main supply or return duct of the home's system and operates continuously to automatically purify the air in the home 24 hours a day.

QUESTIONS?

PHONE 1.866.765.1587

FAX 1.866.253.1029

E-MAIL Techsupport@airhealth.com

WEB airhealth.com

The latest version of this user manual can be found on **airhealth.com**

Safety Considerations

WARNING

Never expose eyes or skin to UVC light from any source.

- Looking directly at the UVC light may cause permanent eye damage or blindness.
- Never operate the Air+Health™ Haven out of the plenum.
- Designed for a closed duct system. Do not mount near a supply or a return air opening.
- All duct openings in direct line of site of the UV light must be sealed with aluminum tape or equivalent sealing methods.
- Wear supplied safety glasses during installation.

WARNING

UVC light will break down plastic materials not rated for UV exposure: (Examples: wire insulation, flex duct, drain pans and humidifiers)

- The unit must be mounted at least 30" from the above stated type of materials.
- If it is necessary to mount the unit in direct line of sight of these types of materials, they must be shielded with aluminum foil, aluminum foil tape, or sheet metal.

WARNING

DO NOT mount this unit outdoors.

- This product is designed for indoor installation only (i.e. Attics, crawl spaces, basements, etc.).

WARNING

Never touch broken lamp or internal contents of lamp. The lamp contains mercury.

- After opening the carton, unpack and inspect the unit and lamp for damage. Do not install this unit if any damage is noticeable. If lamp is damaged, cracked or broken, do not touch lamp or other contents in carton. Close carton and return to seller immediately.

- In case of accidental exposure to internal contents of lamp, wash hands and any other affected skin area with mild detergent. Remove affected clothing immediately. If skin surface is pierced, seek medical attention immediately.

NOTE: If you touch the glass of the lamp, you should wipe the glass clean with isopropyl alcohol and a lint free wipe. If the lamp is not cleaned, the film of hand oils causes a reduction in the light intensity.

WARNING

Before installing or servicing a humidifier, air filter, heat system, this unit, etc., always turn all power OFF and have unit unplugged. Electrical shock can cause personal injury or death. Never expose eyes or skin to direct UVC light from any source.

WARNING

To prevent water damage or electric shock, do not mount unit under a humidifier.

WARNING

This product is designed for indoor installation only (i.e. attics, crawl spaces, basements, etc.). For use on gas fired, oil fired, electric and split system heat pump forced air systems*. This product is NOT designed to be mounted outside on gas fired or heat pump packaged units**.

*Split system heat pumps are systems where the air handler and the air conditioning compressor are separate units.

**Packaged units are systems where the air handler and the air conditioning compressor are built together and are installed outside of the building.

WARNING: NEVER EXPOSE EYES OR SKIN TO UVC LIGHT FROM ANY SOURCE. LOOKING DIRECTLY AT THE UVC LIGHT MAY CAUSE PERMANENT EYE DAMAGE OR BLINDNESS. NEVER OPERATE THE AIR+HEALTH™ AIR PURIFYING SYSTEM OUT OF THE PLENUM. AVOID TOUCHING THE GLASS PORTION OF THE LAMP WITH YOUR HANDS.

Meet Your New Haven

Items included:

1 Mounting Base
Attaches to ballast

2 Ballast
Air+Health power unit

3 UVC Lamp
Ultraviolet bulb

4 Mounting Plate
Fiberglass duct board mounting bracket

5 Safety Glasses
Keep for future use when maintaining this product

6 Hole Saw
1½" diameter

7 Screws (x4)
4 sheet metal screws

8 Template Sticker
A guide for mounting

9 Alcohol Wipe
For cleaning the lamp



Tools Required:

- ◯ Marker
- ◯ Ruler
- ◯ Power Drill
- ◯ Screwdriver (Flat Head)
- ◯ Gloves
- ◯ Duct Tape
- ◯ 1/18" Drill Bit
- ◯ ¼"-½" Drill Bit

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Identify Your HVAC System Type

Why is this step important?

Use the chart (below) and **Figure A** (right) to determine how many Haven units your home needs and what kind of HVAC system you have. This will help you determine a location for your Haven unit(s).

Sizing and selecting units

See chart below for determining your home's needs.

*(For ducts at least 16" wide)

SQUARE FOOTAGE	Air+Health™ # OF UNITS*	VOLTS	WATTS	AMPS	Hz
Up to 2000	1	120	30	0.5	60
4000	2	120	30	0.5	60

Notes:

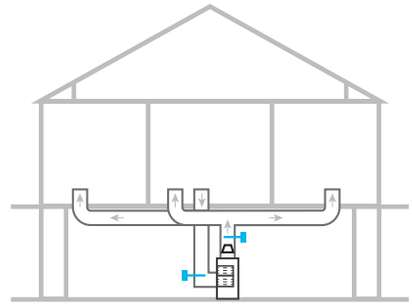
For homes with multiple systems, we recommend one unit per system. For homes with larger applications, multiple units are recommended. Contact technical support at 1-866-765-1587 for sizing.

How to identify your HVAC system type

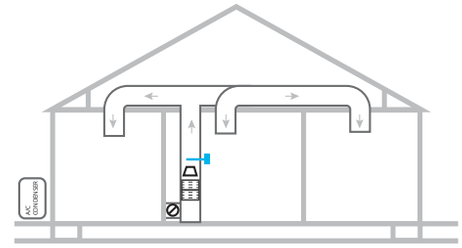
1. Use Figure A to identify which type of system you have.
2. Determine where your air handler is located.
3. Choose the best location for installation per Figure B on page 9.

FIGURE A

Basement Installation

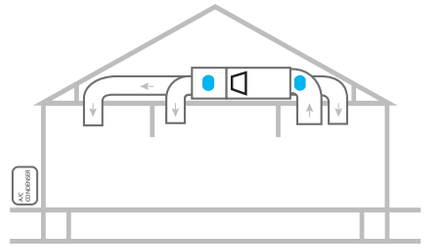


Closet Installation

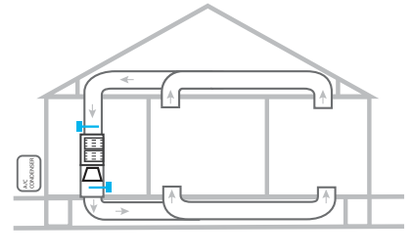


- DO NOT mount near a return air register grill.

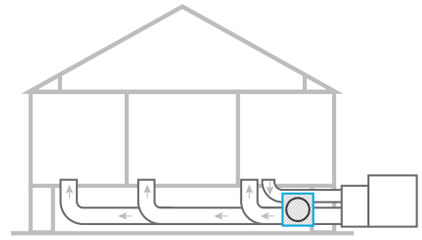
Attic Installation



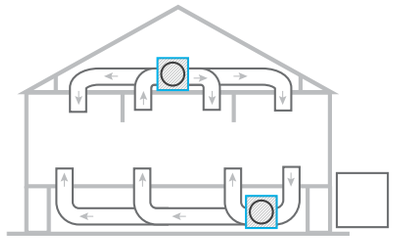
Heat Pump with Separate Air Handler



Package System or Heat Pump (with no separate air handler)



Heat Pump with Separate Air Handler (in the attic or crawl space)





- DO NOT mount unit on plastic flexible duct.
- Mount unit on metal housing if any metal duct available.
- If a metal housing is not available, you may need to fabricate a mounting box.

Select a Location

CAUTION

Investigate and determine the location of the A coil prior to drilling holes in duct for mounting unit.

1. Determine the air flow direction.

Now that you have located your air handler and where the HVAC system is in your home, it is time to choose an install location. Choosing the best location is dependent on what layout your HVAC system has; Down Flow, Up Flow, or Horizontal Flow.
(Reference **Figure B** to see which layout matches your HVAC.)

2. Choose a suitable location for the unit.

Possible locations are downstream from the 'A' coil (Air Conditioning Coil) in the supply plenum **OR** in the return plenum; preferably downstream from the air filter.
For optimum "cleaning" effect on the 'A' coil, mount the unit in the supply plenum as close as possible to the 'A' coil.
(Reference **Figure B** to pick the best install location for your system's air flow direction.)

NOTE: SEAL the joints and seams of the plenum near the mounting location to reduce any direct viewing of UV light.

STOP HERE BEFORE PROCEEDING

If the plenum is made of duct board, refer to the duct board mounting instructions on **pages 10-11.**

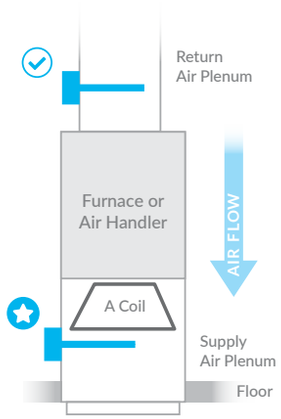
If the plenum is made of metal, refer to the metal plenum mounting instructions on **pages 12-13.**

FIGURE B

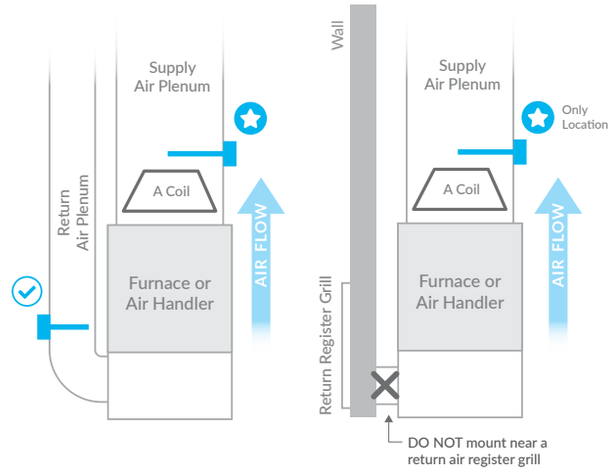
Air+Health™ Best Location

Air+Health™ Optional Location

DOWN FLOW

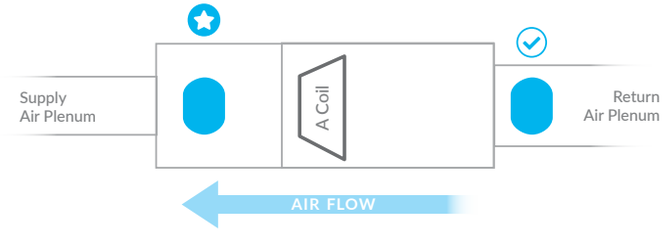


UP FLOW



HORIZONTAL FLOW

These units are mounted in attics or crawl spaces.



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Duct Board Mounting

If your chosen location to mount the unit is made of soft duct board, follow these steps:

1. Tape the Mounting Plate to the duct.

Tape the supplied metal mounting plate onto the duct with duct tape in either a vertical or horizontal position as shown in **Figure 1**.

2. Bend tabs outward.

Bend the middle tabs of the mounting plate outward as shown in **Figure 2**.

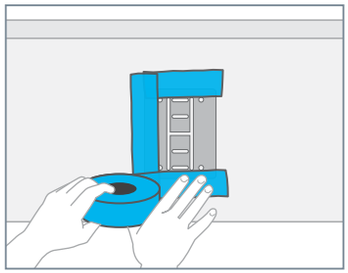


FIGURE 1

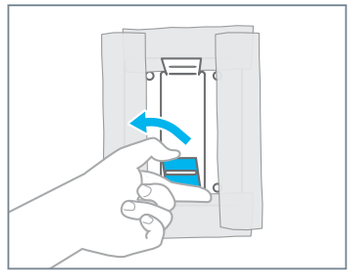


FIGURE 2

3. Cut a rectangle out of the duct board.

Using a knife or blade, cut out a rectangle opening in the duct using the mounting plate as a template. (**See Figure 3**)
Remove the cut piece of duct.

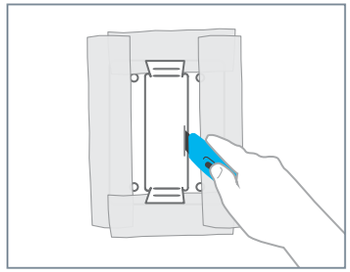


FIGURE 3

4. Bend tabs into duct.

Bend both tabs down and through duct at first bend point. (See **Figure 4**)
Bend both tabs at the second bend point up or down to pinch and grip the duct material. (See **Figure 5**)

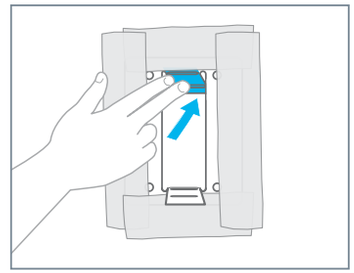


FIGURE 4

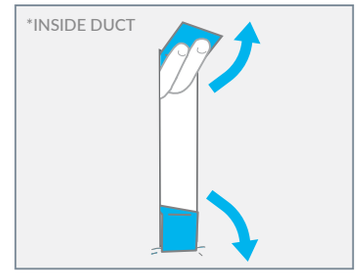


FIGURE 5

5. Locate holes for mounting.

Using a screwdriver or pointed object, locate the mounting holes by poking holes through the duct tape. (See **Figure 6**)

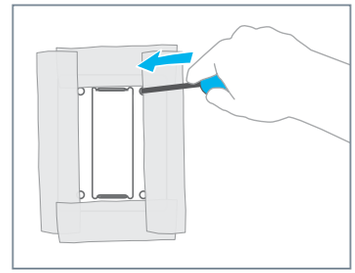


FIGURE 6

6. Continue with installation on page 14.

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Metal Plenum Mounting

If your chosen location to mount the unit is made of metal, follow these steps:

1. Apply the template sticker to the chosen location.

Apply the supplied mounting template sticker to air duct in either a vertical or horizontal position as shown in **Figure 7B**. (Leave template mounted to duct for future reference.)

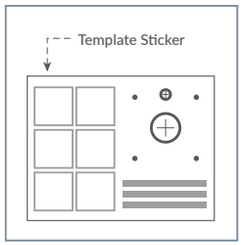


FIGURE 7A

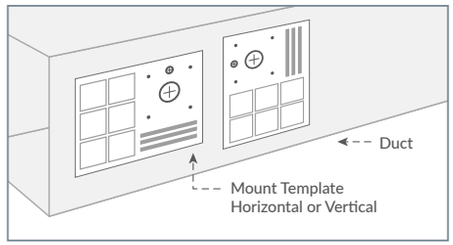


FIGURE 7B

SAFETY PROCEDURE

Please wear supplied safety glasses during installation. They will help protect from debris while drilling.

2. Drill four mounting holes.

Using a power drill, drill ⅛" diameter mounting holes (x4) at the positions indicated on the template (**Figure 8**). Refer to supplied template as shown in **Figure 7A**.

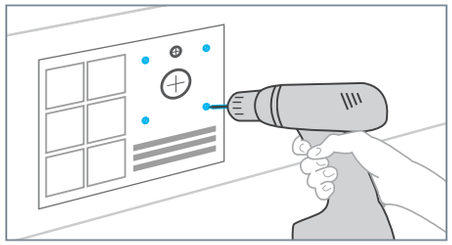


FIGURE 8

3. Drill a large hole for the UVC Lamp.

Attach the hole saw to the power drill. Drill to cut out the largest, center circle on the template. (Refer to template as shown in **Figure 7A**.) Remove the hole saw from the drill when finished. (See **Figures 9 & 10**)

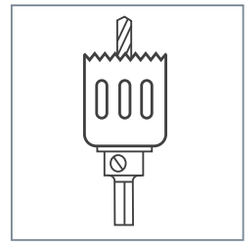


FIGURE 9

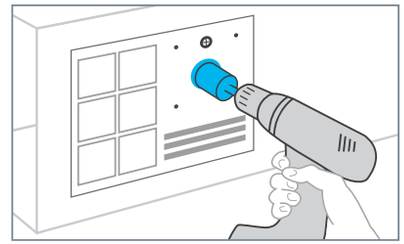


FIGURE 10

4. Drill the view port hole.

Using a ¼"-½" drill bit, drill the view port hole as indicated on template. (**Figure 11**)

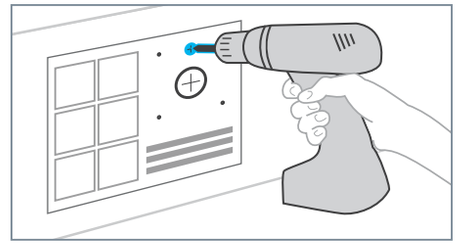


FIGURE 11

5. Continue with installation on page 14.

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Installation

Continue here after completing the previous mounting steps.

SAFETY PROCEDURE

Please wear supplied safety glasses during installation. They will help protect from debris while drilling.

WARNING

To prevent water damage or electric shock, do NOT mount unit under a humidifier.

1. Attach the mounting base to the plenum.

Mount the Air+Health™ mounting base onto the plenum with the supplied screws. (Refer to template shown in **Figure 7A**) **The mounting base must be tightly attached in order to activate the built-in safety switch.** (**Figure 12 & 18**)

NOTE: DO NOT remove template from duct.

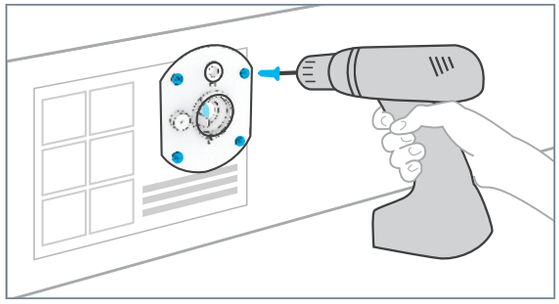


FIGURE 12

2. Install UVC lamp into ballast.

Wearing gloves, plug the base of the UVC lamp into the ballast assembly lamp socket. (See **Figure 13**)

NOTE: Do not handle the lamp with bare hands. Oils on the hands may shorten lamp intensity.

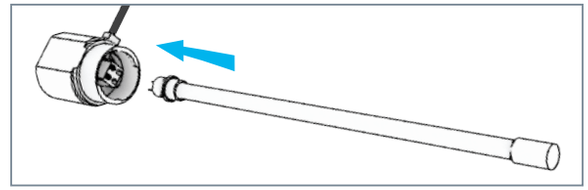


FIGURE 13

3. Wipe off UVC lamp with alcohol wipe.

Wipe off the lamp glass with the supplied alcohol wipe.

4. Insert the UVC lamp into the mounting base hole.

Insert the UVC lamp through the center hole of the mounting base. (See **Figure 14**) Position the power cord 90° to the view port hole on the mounting base. (**Figure 15**)

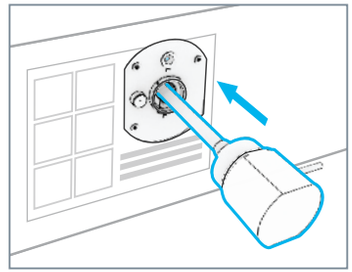


FIGURE 14

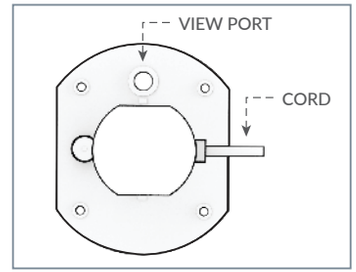


FIGURE 15

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Installation (Continued)

5. Secure the ballast to the mounting base.

With the ballast pressed against the mounting base, rotate the ballast clockwise 90° to secure it to the base. When the ballast is fully attached, the power cord will be aligned below the view port hole. (See **Figures 16 & 17**)

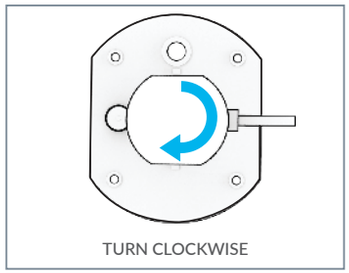


FIGURE 16

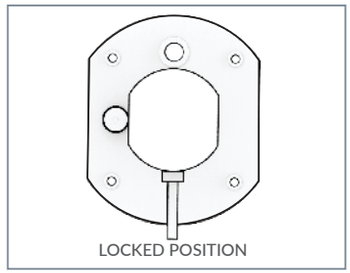


FIGURE 17

6. Plug Haven in.

Plug the power supply cord into a standard electric wall outlet. Check lamp operation by looking through the view port hole.

NOTE: The view port hole is made of glass and will not allow any UVC rays to pass through. A blue glow should be seen in the duct.

TROUBLESHOOT

If blue glow is not seen, make sure the base is properly installed. There is a safety switch located under the base that needs to be seated properly onto the duct. **Make sure that the base is mounted tightly so that the plated washer top of the switch is raised approximately 3⁄16”, this means the switch is fully engaged.** (See **Figure 18**)

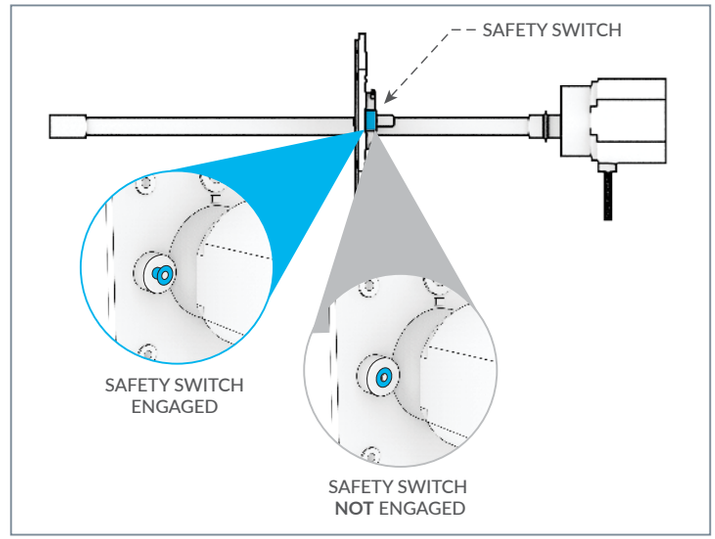


FIGURE 18

7. Once Haven is working, seal all joints and seams.

With standard duct tape or like material, seal all joints and seams of the plenum near the mounting location to reduce any direct viewing of light.

8. Place replacement reminder magnet in a safe spot.

Write the date of installation on the Haven reminder magnet and place it in a visible spot; replace the lamp annually.

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Maintenance

WARNING: UNPLUG

Unplug unit from outlet before commencing inspection and cleaning.

SAFETY PROCEDURE

Please wear disposable, non-absorbent protective gloves prior to inspection procedure in case of accidental breakage of glass.

1. Inspect and clean UVC lamp every 6 months.

We recommend inspecting and cleaning the UVC lamp at least every 6 months depending upon your home environment, condition of conventional filters and duration of use and their replacement cycle.

2. Replace UVC lamp annually.

To maintain the lamps maximum output intensity, replace your UVC lamp annually, depending upon your home environment using the replacement procedure on the following pages. The lamp should operate continuously for maximum lamp life and light effectiveness.

REPLACEMENT PARTS LIST

UVC Germicidal Lamp
Part Number: 602607301

For replacement parts, contact Air+Health at:

PHONE 1.866.765.1587
FAX 1.866.253.1029
E-MAIL Techsupport@airhealth.com
WEB airhealth.com

Scan QR: install guide
airhealth.com/diy-installation/

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Replacement Procedure

WARNING: UNPLUG

Unplug unit from outlet before starting replacement procedure.

SAFETY PROCEDURE

Please wear disposable, non-absorbent protective gloves prior to inspection procedure in case of accidental breakage of glass.

1. Unlock ballast assembly.

Rotate the Air+Health™ ballast assembly counter-clockwise until it stops. (**Figure 19 & 20**)

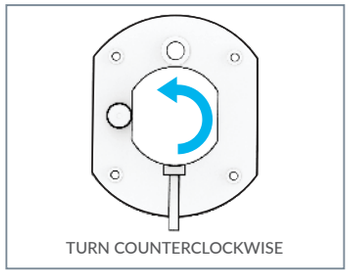


FIGURE 19

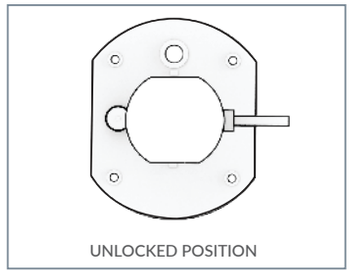


FIGURE 20

2. Remove the ballast assembly and lamp.

Pull the ballast assembly and lamp out of the mounting base. (See **Figure 21**)

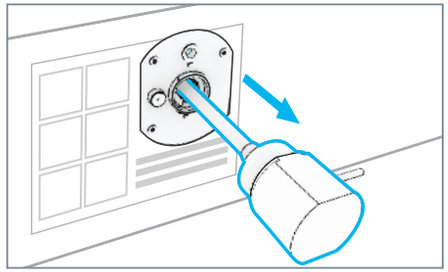


FIGURE 21

3. Remove old UVC lamp.

Remove the old lamp from the lamp socket. (See **Figure 22**)

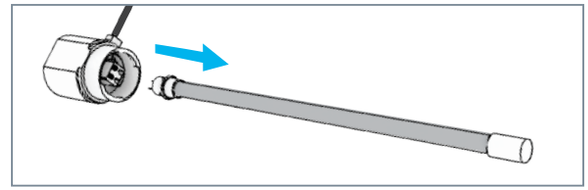


FIGURE 22

4. Install replacement UVC lamp.

Install replacement lamp into lamp socket. Do not handle the lamp with bare hands. Oils on the hands may reduce lamp intensity. (See **Figure 23**)

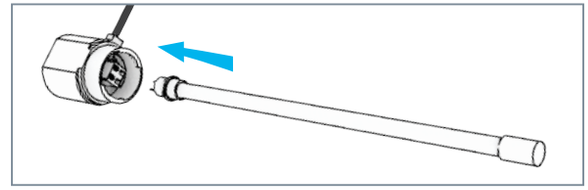


FIGURE 23

5. Wipe off UVC lamp with alcohol wipe.

Wipe off the glass with the supplied alcohol wipe.

WARNING: NEVER EXPOSE EYES OR SKIN TO UVC LIGHT FROM ANY SOURCE. LOOKING DIRECTLY AT THE UVC LIGHT MAY CAUSE PERMANENT EYE DAMAGE OR BLINDNESS. NEVER OPERATE THE AIR+HEALTH™ AIR PURIFYING SYSTEM OUT OF THE PLENUM. AVOID TOUCHING THE GLASS PORTION OF THE LAMP WITH YOUR HANDS.

Replacement Procedure
(Continued)

6. Insert the UVC lamp into the mounting base hole.

Position the ballast assembly power cord 90° to the view port hole on the mounting base. (See **Figure 24**) Slide the lamp through the hole in the mounting base. (See **Figure 25**)

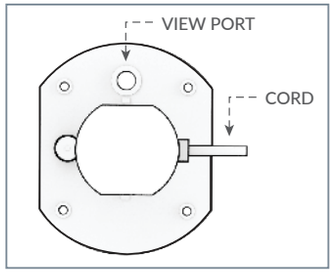
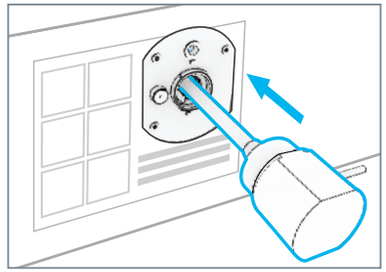


FIGURE 24


FIGURE 25

7. Secure the ballast to the mounting base.

Press the ballast against the mounting base and rotate the ballast assembly clockwise until it stops. (See **Figure 26 & 27**)

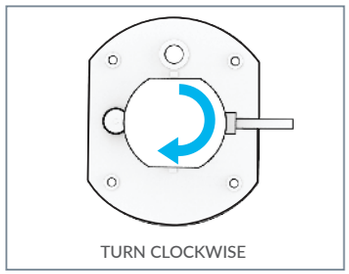


FIGURE 26

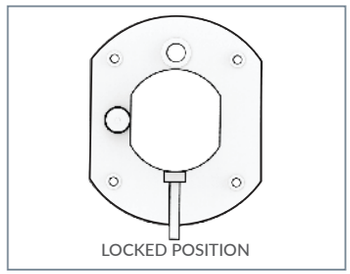


FIGURE 27

8. Plug Haven in.

After assembly is firmly in place, plug the power supply cord into a standard electrical wall outlet. Check lamp operation by looking through the view port hole. A blue glow should be seen in the duct.

NOTE: If blue light leaks through any portion of plenum and/or around mounting plate, unplug power supply cord immediately and seal affected areas and/or rotate ballast and repeat step #8 above.

9. Dispose of the old UVC lamp according to local regulations.

UV lamps contain a small amount of mercury, like a typical fluorescent lamp. Check with your local waste management authority for local disposal or recycling requirements. According to the EPA's Universal Waste Rule, these types of lamps may be disposed of into household waste.

WARNING: Never touch broken lamp or internal contents of lamp. The lamp contains mercury.

NOTE: In case of accidental exposure to internal contents of lamp, wash hands and any other affected skin area with mild detergent. Remove affected clothing immediately. If skin surface is pierced, seek medical attention immediately.

WARNING: NEVER EXPOSE EYES OR SKIN TO UVC LIGHT FROM ANY SOURCE. LOOKING DIRECTLY AT THE UVC LIGHT MAY CAUSE PERMANENT EYE DAMAGE OR BLINDNESS. NEVER OPERATE THE AIR+HEALTH™ AIR PURIFYING SYSTEM OUT OF THE PLENUM. AVOID TOUCHING THE GLASS PORTION OF THE LAMP WITH YOUR HANDS.

Troubleshooting Guide

UVC LAMP NOT LIGHTING UP:

1. Pull back metal washer on left side of mounting base. If lamp lights up, the base needs tightening to ensure that the safety switch is fully engaged. (Reference **Figure 18 on page 17.**)
2. If lamp does not light up, rotate ballast slightly clockwise or counter-clockwise.
3. If lamp does not light up after rotating ballast, replace lamp.
4. If unit still does not light up after replacing lamp, replace ballast.

BROKEN LAMPS (see safety considerations)

UV lamps contain a small amount of mercury, like a typical fluorescent lamp. DO NOT touch any of the mercury with your bare hands.

1. While wearing disposable, non-absorbent protective gloves, pick up the large pieces of glass with your hands.
2. Then, vacuum the entire area with a standard household vacuum cleaner ensuring the removal of all lamp material.
3. Dispose of the pieces of glass, the vacuum cleaner bag, and the disposable gloves in a sealed garbage bag.
4. Check with your local waste management authority for local disposal or recycling requirements. According to the EPA's Universal Waste Rule, these types of lamps may be disposed of into household waste.
5. Wash hands and remove and wash clothes for added safety measures.

REPLACEMENT PARTS LIST

UVC Germicidal Lamp
Part Number: 602607301

For replacement parts, contact Air+Health at:

PHONE 1.866.765.1587
FAX 1.866.253.1029
E-MAIL Techsupport@airhealth.com
WEB airhealth.com

Scan QR: install guide
airhealth.com/diy-installation/

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Warranty Information

Visit link for more warranty info:

airhealth.com/warranty-information/

The products of Air+Health, LLC are warranted to be free from defects in material and workmanship under normal use for 10 years (90 days on UV lamp) from date of purchase. In the event of malfunction or failure of this product, the purchaser shall properly package the entire unit and ship it PREPAID with return address to the address listed below. At the time of request for warranty service, the purchaser must present proof of purchase documentation which includes the date of purchase (for example, a receipt or sales slip). If the malfunction or failure is a result of defects covered by this warranty, Air+Health will, at its option, repair the product or replace it and return it to the purchaser.

This warranty is limited to the original retail purchaser and is not transferable. The warranty does not cover damage due to accidents, abuse, tampering or misuse, nor does it cover damage resulting from service persons other than Air+Health. Air+Health's obligation to repair or replace defective products or refund of invoice price constitutes agreed and liquidated damages for any breach of warranty by Air+Health.

THIS WARRANTY IS EXPRESSLY GRANTED IN LIEU OF ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. AIR+HEALTH SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER DIRECT OR INDIRECT.

Some states may not allow the exclusion or limitation of incidental or consequential damages, or limitations on implied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights and you may also have other rights which vary from state to state.

In the event you have any questions concerning the use and care of your Air+Health products or concerning service under this warranty or otherwise, please write:

Air+Health, LLC

2630 Airport Road,

Kinston, NC 28504

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READ ALL INSTRUCTIONS BEFORE USING.
PLEASE SAVE FOR REFERENCE.

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