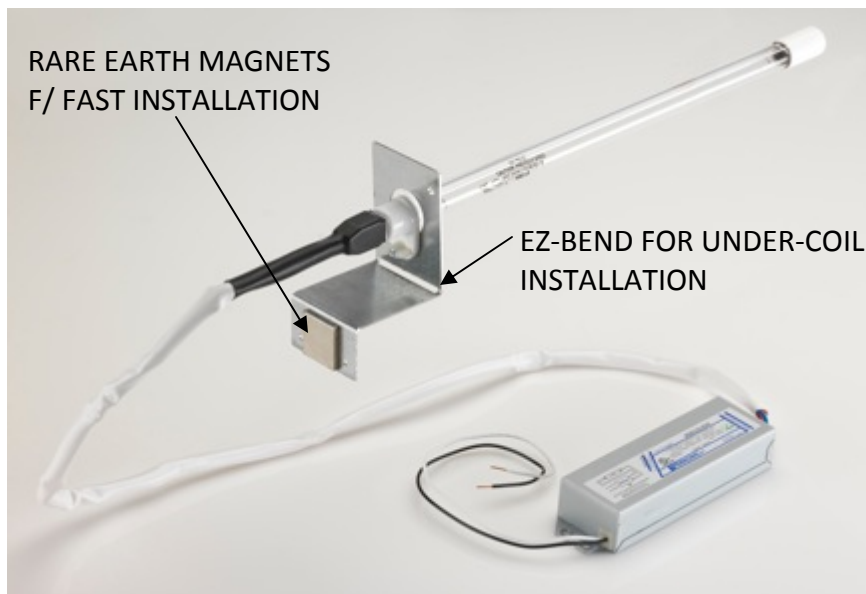




Second Wind Air Purifiers 24 Volt Installation Manual



SAFETY CONCERNS

WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

- 1 Read instruction manual before operating the units.
- 2 Eye damage may result from directly viewing the light produced by these lamps. To reduce the risk of exposure to UV radiation, take UV-radiation protective measures for personnel during servicing.
- 3 This fixture is designed for use with germicidal UV-C lamps and must be installed in compliance with competent technical directions so that user's eyes and bare skin will not be subjected to injurious rays.
- 4 UV Light Hazard. To prevent exposure to ultraviolet light, be sure the ultraviolet air treatment system is disconnected before servicing any part of the HVAC system or removing any access panel or the equivalent.
- 5 There shall not be any openings in the duct that would emit light.
- 6 There shall not be any duct supply or return air openings or any other openings that are in direct line-of-sight of the UV bulb.
- 7 Check damaged parts: Before further use of the unit, any damaged part should be carefully checked to ensure that the unit will operate properly. Any part that is damaged should be properly repaired or replaced.
- 8 Always service unit with Second Wind replacement parts & recommended accessories (i.e. lamps, ballast).

CAUTION: Disconnect power before starting installation or maintenance.

- 1 Personal Injury Hazard. Power supply can cause electrical shock. Disconnect power supply before servicing or beginning installation.
- 2 Risk of exposure to excessive ultraviolet (UV) radiation—Do not operate without complete lamp enclosure in place or if sight lens is damaged.
- 3 Equipment Damage Hazard. Ultraviolet light can cause color shift or surface degradation and sometimes structural degradation of non-metallic components. Select mounting location that prevents exposure to plastic flexible duct components, polyurethane foam insulation material, rubber hoses, wire insulations, etc. If mounting options are limited, items above should be protected with ultraviolet resistant materials such as aluminum foil, aluminum duct tape, or metallic shields.
- 4 Electrical shock hazard from 24 volt or 120/277 VAC may cause serious injury or death.
- 5 Follow Proper Disposal Techniques for UV lamps (pg.3)
- 6 Wear protective gloves and safety glasses when handling lamp. To prevent injury, unplug lamp connector and allow to cool for 10 minutes before servicing.

INSTALLATION LOCATION:

1. Products shall be mounted only on to metal components of air ducts or air handlers (AHU)
2. Mounting shall be such that all surfaces in the duct where appliance forms parts of the duct shall be made of metal.
3. All wiring within adjacent heating and air conditioning equipment, for example, shall be shaded from direct line-of-sight from the UV bulb or shall be UV-rated.
4. Ballast is included with a magnet for installation, but ballast case **MUST BE GROUNDED** for proper safety requirements per manufacturer's schematic on ballast

RECOMMENDED TOOLS

- Electric Drill
- Phillips screwdriver
- Tin snips
- Eye protection
- Tape measure
- Aluminum tape and sealant
- Multimeter

MOUNTING LOCATIONS

1. Install the lamp where you have easy access.
2. Drilling is not required for mounting over or around coil exterior. Before installation under A-coil make sure before drilling into equipment that there is nothing in the way that would be damaged. Z –bracket to be clipped at EZ bend to enable mount of lamp under A-coil
3. The lamp should be installed a minimum of 2-3 inches, maximum 36 inches away from the coil or pan surface.
4. When looking for a mounting location try to install the unit away from non UV resistant plastics, rubber, and other non metallic materials. Shield these components using sheet metal, aluminum tape, or metal conduit.

TROUBLESHOOTING

If the unit does not work, check the following:

Electrical Supply/Wiring—Verify that the electrical service is operating correctly.

Ballast—If lamp still is not illuminating check the wiring to the ballast. If the ballast is wired properly and the lamp still does not illuminate, replace the ballast. With a fully electronic ballast there is no resistance testing.

Transformer—If a transformer is employed to provide power to the unit (not provided by Second Wind), it should be tested in accordance with instructions provided with unit when installed.

Lamp—Verify that the lamp is not broken and is properly seated in the lamp connector. To check this, follow steps in the 'Lamp Replacement' section with one exception: you should not remove and replace the lamp. If the lamp is broken read the 'Lamp Disposal' section of this manual.

LAMP REPLACEMENT

The Second Wind Ultraviolet Germicidal Photo-catalytic 24 Volt Lamp is designed for 9000-11,000 hours of continuous operation. After 9000 hours intensity of the lamp inside the duct diminishes and should be replaced. Even if the lamp is still illuminated replacement of the lamp is recommended, by a qualified HVAC Service Technician.

1. Disconnect electrical service and turn unit off.
2. Remove screws from remote lamp connector (if present, external mount units and newer models may be magnet mounted.
3. Disconnect the lamp connector from the lamp base.
4. Remove the nuts from the 24 volt lamp bracket and remove old lamp (**Be careful old lamp may still be hot !**).
5. Replace the old lamp with the new lamp, making sure the new lamp is clean. If the new lamp is dirty or has fingerprints on it remove with an alcohol wipe.
6. Place lamp bracket over new lamp base and secure with the nuts.
7. Attach lamp connector to the lamp base and use nuts to secure.
8. Turn on electrical service and unit.
9. If lamp does not immediately illuminate, turn off electrical service and unit. Then rotate bulb 180 degrees to reverse pin contacts in connector.

Model	Replacement Lamp(s)
2414	1082LR
2412-FC	1083LR-FC
2412-O3-FC	1083LR-O3-FC
2414-O3	1082 SIPT
2414-FC	1082LR
2414-O3-FC	1082 SIPT

LAMP DISPOSAL

UV lamps contain mercury like other household lamps and must be disposed of properly. **State requirements and recycling opportunities vary, go to www.lamprecycle.org for State Regulations & Contacts.** Please contact your county waste collection department for proper disposal details.

USE GLOVES AND EYE PROTECTION

If a lamp is broken, **do not use a vacuum cleaner to pick up the waste** . Instead, sweep up the waste into a plastic bag and seal. Contact your county waste collection department for proper disposal details.

SECOND WIND AIR PURIFIER LIMITED WARRANTY APPLIES IN U.S.A. AND CANADA

ATTENTION INSTALLERS AND HOMEOWNERS

YOUR SECOND WIND PRODUCT MUST BE REGISTERED WITH SECOND WIND TO QUALIFY FOR WARRANTY CLAIMS - SEE CONTAINER OR CALL 1-800-387-4565 FOR ASSISTANCE

All Second Wind 24 volt Air Purification systems that are attached to your Heating, Ventilation and Air Conditioning System (HVAC) have the following warranty

ONE (1) YEAR COVERAGE LAMPS

The lamps are warranted by Second Wind for a period of one (1) year from the date of the original installation, when installed and operated in accordance with Second Wind recommendations. If during this period a lamp fails, Second Wind will provide a free replacement. You must pay shipping charges and all other costs of warranty service. Second Wind will not pay labor involved in diagnostic calls or in removing, servicing, or replacing parts. Second Wind recommends replacement of the UV lamp every 9,000 hours, the intensity of the lamps will diminish over time.

FIVE (5) YEAR COVERAGE BALLAST

The ballast is warranted by Second Wind for a period of five (5) years from the date of original installation, when installed and operated in accordance with Second Wind recommendations. If during this period a covered component fails, Second Wind will repair or replace the part. You must pay shipping charges and all other costs of warranty service. Second Wind will not pay labor involved in diagnostic calls or in removing, servicing, or replacing parts.

EXCEPTION TO ABOVE: 2414-S model air purifiers have a lifetime warranty on ballast

REPAIRS

All repairs of covered components must be made with authorized service parts. Labor charges resulting from diagnostic calls or service are not covered by this warranty.

CARE OF EQUIPMENT

Your new Second Wind Purifier must be properly installed, operated and maintained in accordance with the unit installation, operation, and maintenance instructions provided with each unit. Failure to provide maintenance per Second Wind instructions will void warranty.

WARRANTY LIMITATIONS

This warranty will be voided if the covered equipment (only Second Wind replacement parts or units are warranted) is removed from the original installation site. This warranty does not cover damage or defect resulting from:

- 1 Accident, or neglect or unreasonable use or operation of the equipment, including operation of electrical equipment at voltages other than the range specified on the unit name plate.
- 2 Modification, change or alteration of the equipment, except as directed by Second Wind. The furnishings of replacement parts under terms of this warranty will apply to the original warranty period and will not extend the warranty.

Second Wind makes no express warranties other than the warranty specified above. All implied warranties, including the implied warranty of merchantability and fitness for a particular purpose, are limited to the duration of the warranty specified above. Liability for incidental and consequential damages is excluded and is not covered by this warranty. Some States do not allow limitations on the duration of an implied warranty or the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Second Wind shall not be liable for any default or delay in performance under this warranty caused by any contingency beyond their control.

WARRANTY PROCEDURES

All Second Wind Air Purification systems that are attached to your Heating, Ventilation and Air Conditioning System (HVAC) have a limited lifetime unit warranty.

- 1 Be prepared to furnish the following information:
 - a- Complete model number and serial number
 - b- Proof of installation date if warranty claim is made by other than a qualified service dealer who maintains records of your installation date and service history.
 - c- An accurate description of the problem.
 - d- Date of failure.
- 2 Call the installing dealer that you purchased your Second Wind from.
- 3 If the installing dealer is unable to provide warranty parts, contact:

Second Wind Air Purifiers
255 Great Arrow Avenue, Unit 20C
Buffalo, NY 14207

Phone: 1-800-387-4565

Fax: 716-798-5751

Email: service@secondwindairpurifier.com