

SECOND WIND AIR PURIFIERS

INSTALLATION and SERVICE MANUAL



9000 Series
Sizes: 20 x 25
16 x 25

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:

- 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.

INSTALLATION LOCATION:

1. See page 4 for possible installation locations.
2. Products shall be mounted only on to metal air ducts.
3. Mounting shall be such that all surfaces in the duct where appliance forms parts of the duct shall be made of metal.
4. 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.

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UNPACKING

Your new Second Wind Air Purifier is shipped complete in one container. Carefully unpack the unit and all loose items from the shipping container. Fig. 2 illustrate the unit and all loose items packed with the unit.

- 1 Unit
- 2 Cover
- 3 Filter
- 4 Lamp (on opposite side of bracket)
- 5 Fuse holder
- 6 Label w/serial number
- 7 Cover Latch
- 8 On/Off switch
- 9 High efficiency filter (not shown) available on special order.

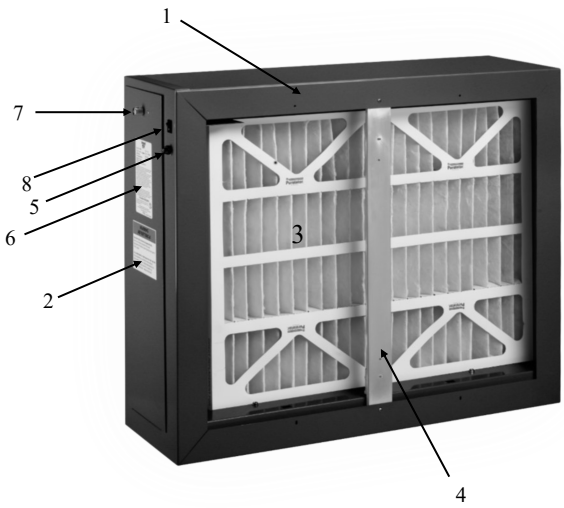


Fig.2

INSTALLATION TOOLS

- 1 Marker
- 2 Tinsnips
- 3 Drill
- 4 Drill Bits
- 5 5/16" & 11/32 "Nut driver
- 6 Tape Measure
- 7 Multimeter

SERVICE PARTS

1	Ballast 120 vac	#1060E-R
2	Interlock Switch	#1047
3	Fuse Assembly	#1054
4	Fuse	#1055
5	Lamp (20x25 Unit)	#1076R
6	Lamp (16x25 Unit)	#1082R
7	Filter 20 x 25	#9001R
	Filter 16 x 25	#9001-16R

POSSIBLE INSTALLATION LOCATIONS

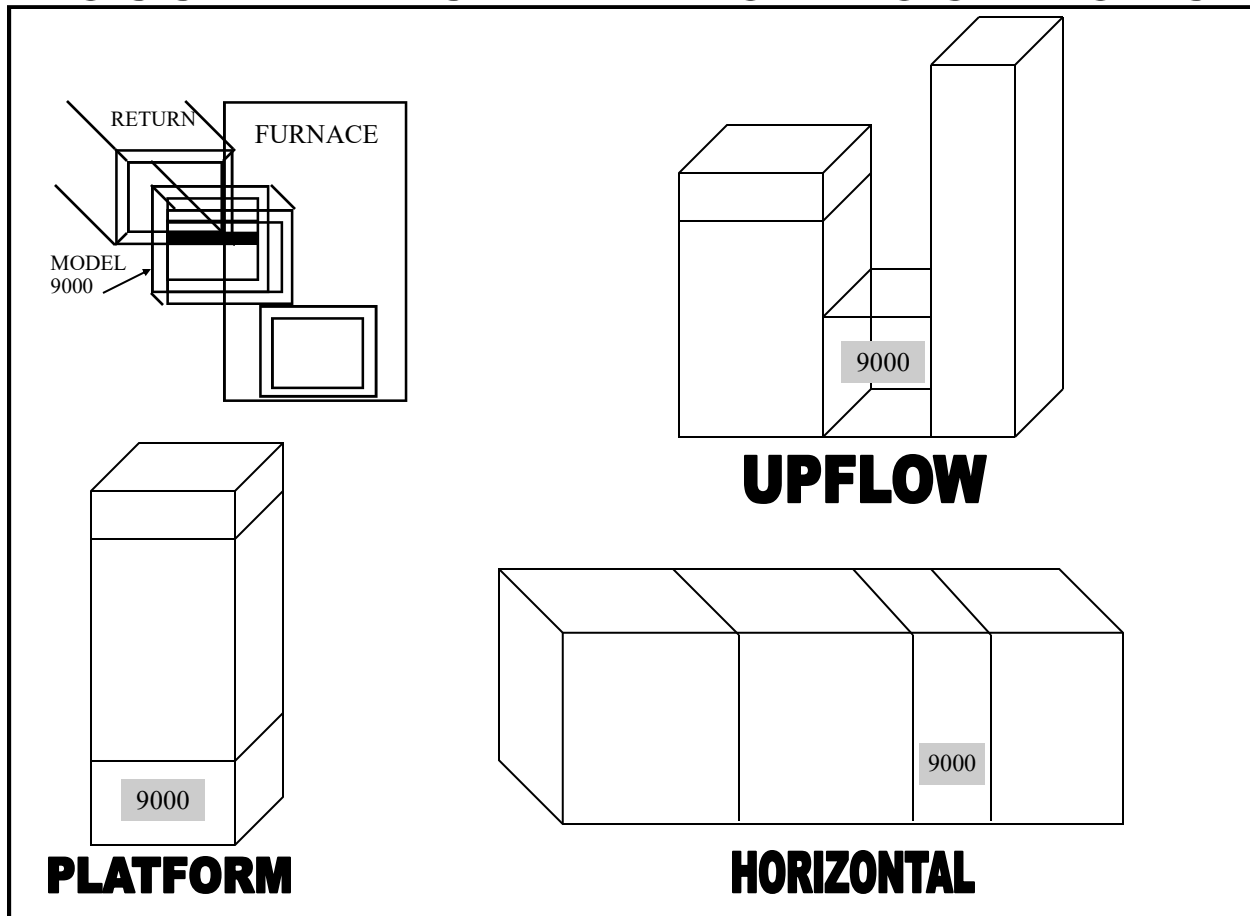


Fig.3

The Second Wind Air Purifier has been tested effective in the destruction and reduction of bacteria, viruses and fungus under various conditions. The effectiveness of this device may vary depending upon room area and rate of circulation.

TO DETERMINE AN INSTALLATION LOCATION SEE: FIG.3

- 1) Products shall be mounted only in-line with metal air ducts
- 2) Mounting shall be such that all surfaces in the duct where the appliance forms part 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.

INSTALLATION

- Installation should be done by a qualified HVAC contractor.
- Read all safety instructions at the beginning of this manual.
- CAUTION: 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 insulation, etc. If mounting options are limited, items should be protected with ultraviolet resistant material such as aluminum foil, aluminum duct tape, or metallic shields

- 1 Remove duct work in area you are going to install the Second Wind unit. (Fig.4)
- 2 Remove the Second Wind Air Purifier from carton and **remove any wrapping that may surround the lamp prior to lighting**. Remove front door and filter. Attach to installation area of the duct with self tapping screws. (Fig.5)
- 3 Install new duct work to existing duct work and 9000 series unit. (Fig.6-7).
- 4 Seal the seams with mastic or tape.
- 5 Reinstall the filter and the front cover of the unit.
- 6 Plug the cord into a 110 volt outlet (Fig.8)
- 7 The air purifier is designed to remain on continuously. (Fig.12) If lamp does not illuminate, see the troubleshooting section.



Fig.4



Fig.5



Fig.7



Fig.6



Fig.8

TROUBLESHOOTING

- 1 Make sure that the unit is plugged into an outlet that is always on.
- 2 Check the on/off switch to make sure it is on.
- 3 If the lamp is still not on, switch the unit off, unplug the power cord and check the fuse.
- 4 Make sure the lamp is not broken and that it is in the socket.
- 5 Check to see if pin on door is activating the interlock switch
- 6 If the lamp is still not on check the ballast.
- 7 Check the input power by testing the outlet for 120 VAC.
- 8 Test the resistance of the ballast. Unplug the power cord. Measure the resistance from the black lead on the input side of the ballast to the blue lead on the output side of the ballast. To contact the blue lead you may need to remove the lamp and put the multi-meter probe into the corresponding socket opening. The resistance should be 7-12 ohms. If the resistance is less than 7 ohms, replace the ballast.
- 9 If everything else has been checked, but the lamp is still out, the ballast starter is blown and the ballast should be replaced.

LAMP REPLACEMENT

Second Wind Air Purifier lamps are designed to be on all the time. After approximately 9000-11000 hours of operation the lamps intensity will decrease. Installation of a replacement lamp is best handled by a HVAC Contractor.

- 1 Turn unit off and unplug the power cord. Wait for the surface of the lamp to cool.
- 2 Remove Door. (Fig.9)
- 3 Remove Filter **make sure lamp is off.**
- 4 Unsecure lamp from spring clip holder. (Fig.10)
- 5 Pull lamp out from socket. (Fig.11)
- 6 Install new lamp into socket and snap into Spring clip holder.
- 7 Replace Door and tighten latch.
(Interlock switch must engage for light to receive power)
- 8 Plug unit in and turn on.

NOTE

UV Lamps contain mercury like other fluorescent lamps and must be disposed of properly. Do not throw old lamps in the trash. Contact your local waste collection agency for proper disposal procedures.

If the lamps are dirty or have fingerprints on them, use alcohol to remove.

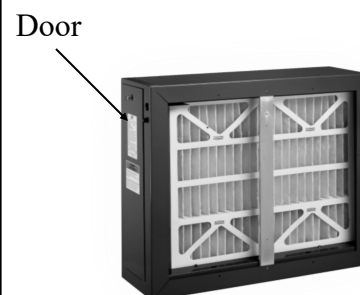


Fig.9

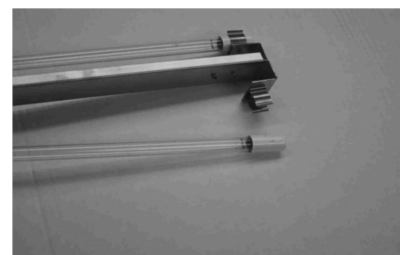


Fig.10

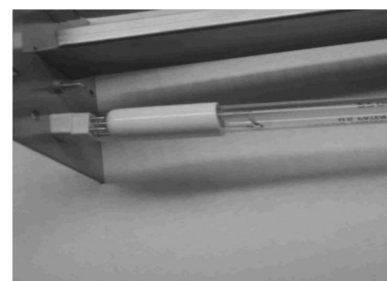


Fig.11

Periodic Maintenance

1. Turn off power, remove front door and filter.
Inspect filter. **9001R & 9001-16R filters should be changed every 6 months.**
Hi-efficiency Filters 9026R & 9027R should be changed annually.
2. Use cotton ball and alcohol to clean glass lamp.
Inspect lamp (Recommended replacement of lamp—every 12 months.).
3. Reinstall filter and front door panel. Listen for engagement of Interlock Switch. Turn unit on.



ATTENTION INSTALLERS AND HOMEOWNERS

**YOUR SECOND WIND PRODUCT MUST BE REGISTERED TO QUALIFY FOR WARRANTY CLAIMS
SEE CONTAINER OR CALL 1-866-476-5101 (IN USA) OR 1-888-216-9184 (IN CANADA) FOR ASSISTANCE**

SECOND WIND AIR PURIFIER WARRANTY

The Second Wind 1000KCS or 1002KCS that is attached to your Heating, Ventilation and Air Conditioning System (HVAC) has the following warranty, applicable in USA by General Filters Inc (GFI), and in Canada by Canadian General Filters Limited (CGF)

ONE (1) YEAR WARRANTY COVERAGE LAMPS

The lamps are warranted for a period of one (1) year from the date of the original installation, when installed and operated in accordance with GFI and CGF recommendations. If during this period a lamp fails, GFI & CGF will provide a free replacement.

FIVE (5) YEAR LIMITED WARRANTY

GFI & CGF warrants this product, excluding lamps to be free from defects in the workmanship or materials, under normal use and service, for a period of five (5) years from the date of original installation, when installed and operated in accordance with GFI & CGF recommendations. If during this period a covered component fails, GFI & CGF will repair or replace the part.

SHIPPING, REPAIRS AND ALL OTHER COSTS OF WARRANTY SERVICE

End user must pay shipping charges and all other costs of warranty service. GFI & CGF will not pay labor involved in diagnostic calls or in removing, servicing, or replacing parts. 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 Air 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 these 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 GFI & CGF The furnishings of replacement parts under terms of this warranty will apply to the original warranty period and will not extend the warranty.

GFI & CGF 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.

General Filters Inc & Canadian General Filters Ltd shall not be liable for any default or delay in performance under this warranty caused by any contingency beyond their control.

WARRANTY PROCEDURE

All Second Wind Air Purification systems that are attached to your Heating, Ventilation and Air Conditioning System (HVAC) have a limited unit warranty. To receive warranty consideration, the following must be provided.

- 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 device from.
- 3 If the installing dealer is unable to provide warranty parts, contact:

General Filters Inc,
43800 Grand River Ave
Novi, MI 48375
Phone: 1-866-476-5101

CGF Products Ltd.
400 Midwest Road
Toronto, ON M1P3A9
Phone: 1-888-216-9184

Email: service@secondwindairpurifier.com