

SECOND WIND AIR PURIFIERS

INSTALLATION and SERVICE MANUAL



8000PFP



9500PP



9700PP

MODEL 8000PFP

MODEL 9700PP

MODEL 9500PP

SAFETY CONCERNS

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

- 1 Do not look directly at the lamps, without UV protective glasses.
- 2 Read instruction manual before operating the units.
- 3 Use recommended accessories (i.e. lamps, ballast)
- 4 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.
- 5 Units should not be installed with in 12-18 inches of any non UV resistant materials. If materials are in question call manufacturer of said products to see if they are made with UV inhibitors. Prolonged UV exposure will degrade non UV resistant materials. Non UV resistant materials must be shaded or covered.

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

All Second Wind Air Purification portable systems have a (3) year unit and 1 year lamp warranty. (MODELS:8000PPF,9500PP,9700PP)

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.

THREE (3) YEAR UNIT

The covered equipment and covered components are warranted by Second Wind for a period of three (3) years from the date of the original unit purchase, when 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.

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 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 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 portable systems have a (3) year unit and 1 year lamp warranty. (MODELS:8000PPF,9500PP,9700PP).

- 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:

Call, write, fax or e-mail:

Second Wind Air Purifiers
711 Park Ave.
Medina, NY 14103
1-800-387-4565
585-798-5751
secwind@rochester.rr.com

PHONE
FAX
E-Mail

Operation of 9500PP

- 1 Remove the Second Wind Air Purifier from carton.
 - 2 The model 9500 is designed to be run from a 120 volt electrical wall outlet. Plug the unit into a wall outlet.
 - 3 With the unit facing front you will notice two control knobs on the left hand side. The red button is the on/off switch, turn it on. The other knob controls the variable speed blower, adjust the air movement to your desired level. The more air being moved the louder the unit will be, to adjust noise level decrease speed of the blower.
 - 4 Place the unit towards the center of the room you are purifying. The unit should be allowed to draw air from all corners of the room.
- Your purifier contains a 147 cfm free air blower which will give you six air changes per hour on maximum speed (approximately a 10x12x8 room).

WARNING!!!!

Risk of excessive ultraviolet rays- Do not operate without complete enclosure of the lamps inside the unit.



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. The health aspects associated with this product were not investigated by U.L.

Operation of 9700PP

- 1 Remove the Second Wind Air Purifier from carton.
- 2 The model 9700 is designed to be run from a marine, RV, or automotive 12 volt dc system. The units 12 volt plug should be inserted into the marine, RV, or automobile cigarette lighter adapter .

• WARNING!!!

Do not leave unit running without the vehicles motor running. Over time the unit will run the battery down if run with the engine off.

WARNING!!!!

Risk of excessive ultraviolet rays- Do not operate without complete enclosure of the lamps inside the unit.



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. The health aspects associated with this product were not investigated by U.L.

Operation of 8000PFP

- 1 Remove the Second Wind Air Purifier from carton.
- 2 The model 8000 is designed to be run from a 120 volt electrical wall outlet. Plug the unit into a wall outlet.
- 3 With the unit facing front you will notice two (2) control knobs on the face of the unit. The unit has a three speed 1200 cfm blower , adjust the air movement to your desired level using the adjustable 3 speed switch. The more air being moved the louder the unit will be, to adjust noise level decrease speed of the blower. There is a second switch on the unit and that is for the lamp in the sterilization chamber.
- 4 Place the unit towards the center of the room you are purifying. The unit should be allowed to draw air from all corners of the room.

WARNING!!!!!!

Risk of excessive ultraviolet rays- Do not operate without complete enclosure of the lamps inside the unit.

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. The health aspects associated with this product were not investigated by U.L.



TROUBLESHOOTING 9700PP

Unit Does Not Come On

- **Make sure DC plug is secured inside cigarette lighter.**
- Turn off unit and check fuse. Fuse (10 amp) is located inside the cigarette adapter, unscrew adapter head and the fuse is inside.
- Turn off unit and open cover, by removing screws and check connection to lamp.

If all prior checks are Ok , return unit for repair or replacement.



Replacement Parts

1	AC/DC Inverter	#1052
2	Fuse (10 amp Automotive)	
3	Lamp Connector	#1014
4	Lamp	#1066
5	Cord Assembly	#1094

Periodic Maintenance

Once a year or as needed

1. Turn off power, unplug the unit and remove screws on outside cover, remove cover.
2. Use cotton ball and alcohol to clean glass lamp.
Inspect lamp (Recommended replacement of lamp 9000 hours).
3. Use a vacuum cleaner, being careful not to damage internal components, clean interior of the unit.
4. Replace cover and screws.
5. **Plug unit in and turn the unit on.**

TROUBLESHOOTING 9500PP

Unit Does Not Come On

- 1 Make sure plug is secured inside wall outlet and red switch is on.
 - 2 Turn off unit and open cover, by removing screws and check connection to lamp.
 - 6 Check the input power by testing the outlet for 120 VAC.
 - 7 Then 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.
 - 8 If everything else has been checked and is fine, but the lamp is still out, the ballast starter is blown and the ballast should be replaced.
- **If all prior checks are Ok , return unit for repair or replacement.**

Replacement Parts

1	Ballast 120 vac	#1058
2	Interlock Switch	#1050
3	On/Off Switch 120 V	#1061
4	Fuse Assembly	#1054
5	Fuse	#1055
6	Lamp Connector	#1014
7	Lamp	#1062



Periodic Maintenance

Once a year or as needed

- 1 Turn off power, unplug the unit and remove the two screws on rear of the unit at each side of the cover. Slide the cover toward the rear of the purifier while lifting upward.
- 2 Use cotton ball and alcohol to clean glass lamp.
Inspect lamp (Recommended replacement of lamp 9000hours).
- 3 Use a vacuum cleaner, being careful not to damage internal components, clean interior of the unit.
- 4 Replace cover and screws.
- 5 Plug unit in and turn the unit on.

TROUBLESHOOTING 8000PPF

Unit Does Not Come On

- 1 Make sure plug is secured inside wall outlet and yellow light is **on**.
- 2 Turn off unit and open covers.
- 3 Reinstall doors making sure the interlock switches are depressed on the bottom door frame and behind the 12" filter.
- 4 If the unit still does not run.
- 5 Remove the upper and lower doors by turning the locks clockwise. The lower door will pull away at the top and push downward. The upper door will pull away at the center of the enclosure, the tabs located at the top of the door will assist in the door location when replacing.
- 6 If all prior checks are Ok check ballast. Turn unit off, open Photocatalytic UV chamber:
- 7 Remove control panel to expose the UV trap door. Remove screws holding UV trap door and slowly pull the door toward you exposing the lamp.
- 8 Check the input power to the ballast. (Black & White power feed 120 VAC).
- 9 **(110 VAC)** Measure the resistance of the ballast from black to blue. **Turn power off.** For ballast #NES20604P the ohms should be 7-12. If below 7 ohms replace ballast.
 - **If the ohms are OK and the lamp will still will not light the starter is shorted out in the ballast and the ballast should be replaced.**
- 10 When installing doors make sure the interlock switches are depressed on the bottom door frame and behind the 12" filter.

If all prior checks are Ok , return unit for replacement.

Replacement Parts

- 1 1" Pleated Pre-filter
- 2 12" Filter- Part # 8006
- 3 1" Carbon Filter- Part # 8007
- 4 Lamp-Part # 1076
- 5 Ballast- Part # 1060
- 6 Fuse- Part # 1055
- 7 Lamp Connector- Part # 1014



Periodic Maintenance 8000PFP

Once every six months or as needed

- 1 Turn off power, unplug the unit.
 - 2 Remove the upper and lower doors by turning the locks clockwise. The lower door will pull away at the top and push downward. The upper door will pull away at the center of the enclosure, the tabs located at the top of the door will assist in the door location when replacing.
 - 3 Remove control panel to expose the UV trap door.
 - 4 Remove screws holding UV trap door and slowly pull the door toward you exposing the lamp.
 - 5 Use cotton ball and alcohol to clean glass lamp.
 - 6 Inspect lamp (Recommended replacement of lamp 9000hours).
 - 7 Use a vacuum cleaner, being careful not to damage internal components, clean interior of the lower blower compartment.
 - 8 Replace 1” pre-filter twice a year or as needed
 - 9 The 12” HEPA type filter should be inspected every six months and replaced every 18-24 months or as needed.
 - 10 The Carbon 1” top filter should be inspected every six months and replaced every 24 months or as needed.
 - 11 Install outer doors.
- **When installing doors make sure the interlock switches are depressed on the bottom door frame and behind the 12” filter.**
- 11** Plug unit in and turn the unit on.



Second Wind Air Purifier

Portable Models:

9500PP

9700PP

8000PFP

Ultraviolet Germicidal Units

for Residential/Commercial Portable Applications



8000PFP



9500PP



9700PP

Since the first ultraviolet irradiation system was used successfully in 1909, ultraviolet irradiation has had a 94 year performance history. Second Wind uses the ultraviolet wavelength at 253.7nm, ultraviolet radiation lethal to microorganisms. Second wind air purifiers can reduce mold, bacterial, or viral airborne microbes in all areas of a Heating Ventilation and Air Conditioning system (HVAC).

Second Wind air purifiers can also address Volatile Organic Compounds (VOC's), through the addition of Photo-Catalytic Oxidation (PCO). PCO in this case is achieved by the use of our high intensity ultraviolet lamps irradiating the surface of grade 2 titanium creating electron hole pairs (hydroxyl radicals OH). Gas contaminates are oxidized in a reaction that takes place with the hydroxyl radicals, changing the contaminates molecular structure.

The 8000PFP commercial portable air purifier will also address particulates with three different stages of filtration (as shown above).

The Second Wind Purifier is the perfect choice for small or large applications . Second Wind uses ultraviolet germicidal light and a patented photo-catalytic process to disinfect mold, bacteria, infectious disease, and decrease volatile organic compounds in the air stream. Second Wind air purifiers are designed for portable air disinfection.

Features and Benefits

- Available for various portable applications
- Disinfects mold
- Inexpensive to operate
- Surface and Air Indoor Air Quality Control
- Proven effectiveness through independent test data
- High intensity Ultraviolet Lamps
- Photo-catalytic oxidation process to reduce VOC levels
- 1 year lamp warranty
- Over 9000 hours lamp expectancy
- Electronic start power supply ranges from 110/277 VAC
- Registered as a Class II medical device #k980745
- Registered with the EPA #73112

SPECIFICATIONS

Second Wind Air Purification 8000PPF, 9500PP, and 9700PP portable units are plugged into an outlet and left in a room. The units work in residential/commercial applications to disinfect molds, bacteria, reduce VOC contamination and particulates. The housings are steel and come manufacturer assembled and tested.

Models 8000PPF, 9500PP :

The power source is a electronic, Class P, Sound rated A, Type HL, NO PCB's, type 1 outdoor ballast meeting EMI requirements of CFR Title 47 Part 18 consumer. The operating range is 120 VAC and the current is 800ma@120vac. The ballast is designed to operate at any airflow and relative humidity.

Second Wind lamps operate at 253.7 nm, ideal for air disinfection, good for use at any velocities, temperatures ranging from 30 - 170 F. Every lamp has an extended lamp life coating which helps maintain intensity levels at 85% even after a year of operation. They are a High Output (HO), T5 (15mm) diameter, lamp yielding 2/3 more output than standard lamps of the same length. Base of the type "L" quartz glass is ceramic, with triple-coiled electrodes made of molybdenum lead in a clamped filament design. Lamp connectors are 4-pin single ended circling sockets. Lamp life shall not be less than 9000 hours.

Submitted device shall be tested under typical HVAC conditions and in accordance with the general provisions of IES Lighting Handbook, 1981 applications Volume. Total output per one inch arc length shall be not less than 10uW/cm2 at 1 meter in air of 45 F and 400 fpm

The 8000PPF has three stages of filtration to address particulate in the air.

1. 1 inch 80 % to 3 micron pre-filter.
2. 12 inch 95 % media filter.
3. 1 inch carbon filter

DEALER IMPRINT:

Dimensions:

9500PP - 12"W x 4" H x 18"L x 1-9" Lamp
 9700PP- 5.12"W x 3.06" H x 10.12"L x 1-5" Lamp
 8000PPF - 20.37"W x 46" H x 24"D x 1-18" Lamp

Weight

9500PP - 17 lbs.
 9700PP - 5 lbs.
 8000PPF - 160 lbs

Power Electronic Ballast

8000PPF, 9500PP : 120 VAC
 9700PP: 12 Volt DC

Blower

9500PP - Variable speed 147 cfm free air.
 9700PP - 47cfm free air.
 8000PPF - 3 speed: 600, 900 and 1200cfm.

Lamps

	18"	9"	5"
Base Face in. -	17.2	8.4	
Length mm -	436.0	212.0	
Arc Length in.-	14.2	5.2	
mm -	360	131	
Current mA-	800	800	425
Wattage W-	40	25	10
Voltage @60Hz-	86	32	
UV Output W-	10	5	
UV Output @			
6" uW/cm2 -	2460	1080	620
Lamp life hours-	9000	9000	9000

Wiring

Number 18 teflon coated wire 600V, 105C.

Filtration for 8000PPF

- 1" pre-filter 80% efficient to 3 microns:
- 5.1 square feet of woven pleated media surface.
 - 1200cfm 0.35 inches W.G. resistance
- 12" HEPA type 95% average efficiency:
- 105 square feet pleated media surface
 - 1200cfm 1.0 inches W.G. final resistance
- 1" carbon filter

Warranty

3-Years Fixture 1-Year Lamps

**SECOND WIND AIR PURIFIERS
 711 PARK AVE
 MEDINA, NEW YORK 14103
 1-800-387-4565
 585-798-5751 FAX**

WWW.SECONDWINDAIRPURIFIER.COM