

7500 FLUSHMOUNT USERS MANUAL

READ AND SAVE THESE INSTRUCTIONS

WARNINGS:

1. Always unplug or disconnect the air cleaner from the power supply before servicing.
2. To reduce the risk of electric shock or injury to persons, do not expose to water or rain, do not use in a window.
3. Do not use this fan with any solid state speed control device.

EQUIPMENT:

1. Each 7500 Flush mount unit is equipped with two (2) eye bolts, two (2) eye lags and industrial hanging wire for easy installation.
2. The 7500 Flush mount has a (10) foot power cord and a three prong grounded plug.
Electrical: 120 volts, 6 amps.
3. Each unit includes a years supply of filters which consists of twelve (12) Pre Filters, four (4) Carbon filter, and one (1) Galvanized H.E.P.A. Filter.

INSTALLATION:

*Second Wind recommends installation be performed by a licensed contractor, licensed electrician or equivalent.

Step 1. Remove the system from the shipping container. Open service door, remove Pre filter and remove plastic bag from Carbon Panel Filter. Replace Carbon Panel Filter, Pre Filter (white out) and close service door. Remove the adjustable louver door from inside the system. After you have removed the adjustable louver door, remove the 2" piece of weather strip and the H.E.P.A. bar and then slip out the H.E.P.A. Filter. The H.E.P.A. Filter is a pleated media surface in a metal frame. Removing the H.E.P.A. Filter will make the system lighter for installation purposes. Replace H.E.P.A. Filter and H.E.P.A. bar after unit is installed. Make sure the H.E.P.A. Filter and H.E.P.A. bar are in tightly.

Step 2. On either side of the system there are two mounting holes where the eye bolts are inserted. It is easiest to screw the eye bolts into these mounting holes before mounting into the ceiling. If the area above the drop ceiling is tight for space, then you may need to put the eye bolts in the mounting holes after you have the system into the drop ceiling.

Step 3. Remove the ceiling tile(s). The system will fit into either one 2 x 4 or two 2x2 tiles.

Step 4. A system being installed into a drop ceiling that has joists, steel girders or exposed beams above can be hung without the eye lags, (see Step 5). At least one eye lag will be needed if your system is being installed into a ceiling that is solid above, (see Step 6).

Step 5. Locate either a joist, girder or beam that is directly above the tile where your system will be installed. After you have located a joist, girder or beam, drape the industrial hanging wire over the apparatus so that either side is evenly dispersed. Line up the eye bolts with the hanging wire so they are vertical. Thread one end of the hanging wire through one of the eye bolts, loop the wire and twist tightly together. Thread the opposite end of the hanging wire through the opposite eye bolt. Pull the wire tight. The system should be only slightly resting on the grid work of the drop ceiling. After you have adjusted the weight of the system on the grid work, then loop the wire and twist tightly together.

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Step 6. Locate a stud in the solid ceiling that is directly above the tile where the system will be installed. Fasten the eye lag into the stud making sure to line up the eye lag with the eye bolts on the system so the hanging wire will hang vertically. Thread the hanging wire through the eye lag so that either side is evenly dispersed. Thread one end of the hanging wire through one eye bolts, loop the wire and twist tightly together. Thread the opposite end of the hanging wire through the opposite eye bolt. Pull the wire tight. The system should be only slightly resting on the grid work of the drop ceiling. After you have adjusted the weight of the system on the grid work, then loop the wire and twist tightly together.

Step 7. After the system is installed put your H.E.P.A. Filter back into the system. Make sure the H.E.P.A. Filter is snug. Replace the H.E.P.A. Bar and the adjustable louver door.

FILTER CHANGING:

1. Pre Filter - Replace every 3 to 4 weeks
2. Carbon Filter - Replace at least every 4 months
3. H.E.P.A. Filter - Replace at least every 12 months

Step 1. The Pre Filter is located behind the intake door (service door). The Pre Filter is a blue and white polyester, pre-tack filter. The intake door is located closest to the HI/OFF/LO switch on the face of the system. Unclip the two latches on the intake door and the door will swing down. The Pre Filter is the first filter behind the intake door. Peel away dirty Pre Filter and discard. Install the new Pre Filter with the white side out. Close door. **DO NOT WASH PRE FILTERS.**

Step 2. The Carbon Panel Filter is located behind the Pre Filter. Follow Pre Filter changing instructions from Step 1. Remove Carbon Panel Filter, discard and replace with new Carbon Panel Filter. The Carbon Panel Filter should be taken out monthly and vacuumed. **DO NOT WASH CARBON PANEL FILTERS.**

Step 3. Remove the adjustable louver door. Remove the H.E.P.A. Bar. The H.E.P.A. Filter is a pleated media surface with a galvanized frame. Slip the H.E.P.A. Filter out of the system, discard and replace with new H.E.P.A. Filter. Replace bar tightly. **DO NOT WASH H.E.P.A. FILTER.**

Filter maintenance may vary according to each situation.

Lamp Replacement should be every 12 months in order to maintain peak performance. Our long life lamp coating allows for 85% of original UV performance after one year and 65% after the second year of operation.

UV lamp is located under the H.E.P.A. filter and the part number is # 1076

CUSTOMER SERVICE

1-800-387-4565

Second Wind Air Purifier

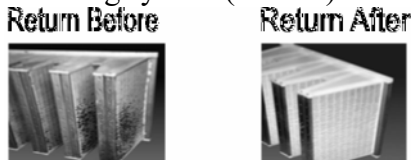
Model:

7500 PFP

Ultraviolet Germicidal Units for Heating Ventilation and Air Conditioning Systems



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 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 surface and air disinfection.

Features and Benefits

- Available for all applications
- Disinfects mold
- Inexpensive to operate
- Surface and Air Indoor Air Quality Control
- Proven effectiveness through independent test data
- High intensity Ultraviolet Lamps
- Patented Photo-Catalytic Oxidation process to reduce VOC levels
- Ti2 photo-catalytic surface area
- Limited Lifetime Unit Warranty
- Limited Lifetime Ballast warranty
- 1 year lamp warranty
- Over 9000 hours lamp expectancy
- Electronic start power supply ranges from 110/277 VAC (models 101 8RU)
- 5018SL Class II medical device#k980745
- Registered with the EPA #73112

SPECIFICATIONS

Second Wind Air Purification units drop into a suspended ceiling. It replaces either 1 -2x4 tile or 2-2x2 tiles from a suspended ceiling. In order to install easily the clearance above the ceiling should be 13 inches or greater. Do not install the unit in ceiling heights of greater than 13 feet. All units are manufacturer assembled and tested.

Model 5018SL: Air Purifier installed in the 7500

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 from 120 VAC to 277 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

Dimensions:

Power Unit- 23 3/4"W x 46 1/2"L x 12" H

Weight

• 85 lbs.

CFM

1200

cfm

Power Electronic Ballast:

4.2 AMPS TWO SPEED
BLOWER 120 VAC - 277
VAC

FILTERS

1/2" Polyester Tackified Pre
Filter 1/2" Activated Carbon

Lamps

	18"
Base Face in. -	17.2
Length mm -	436.0
Arc Length in.-	14.2
mm -	360
Current ma-	800
Wattage W-	40
Voltage @60Hz-	86
Output W-	10
UV Output	
@1M uW/cm2	500
Lamp life hours-	9000

Wiring

Number 18 teflon coated wire 600V, 1 05C.

URV Rating

Done at 400 fpm, 6" installation tracks, with TB Bacilli rate constant with 60% reduction. Based on scale like MERV rating Low- High, 1-15.

18"
13

Warranty

Limited Lifetime- Fixture, Ballast

1-Year Lamps

DEALER IMPRINT:

The titanium strips attached to the units are the catalyst for the production of hydroxyl radicals in the Photo catalytic process. They are made of Titanium grade 2; 0.01% C, 0.005% N, 0.04% Fe, 0.12% O, and balance Titanium. It has a density of 4.5 g/cm cube, specific heat of 520 J/ kg K, electrical resistivity 50 micro ohms cm, thermal expansion (10-6K) 9.1 (20-300C), tensile strength 390 N/mm sq, and elongation A3 min 30%.

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