



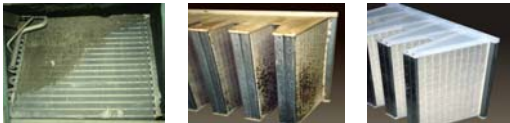
Second Wind Air Purifier Commercial Series

- Models:**
5009SL
5009DL
5018SL
5018DL
5036SL
5036DL

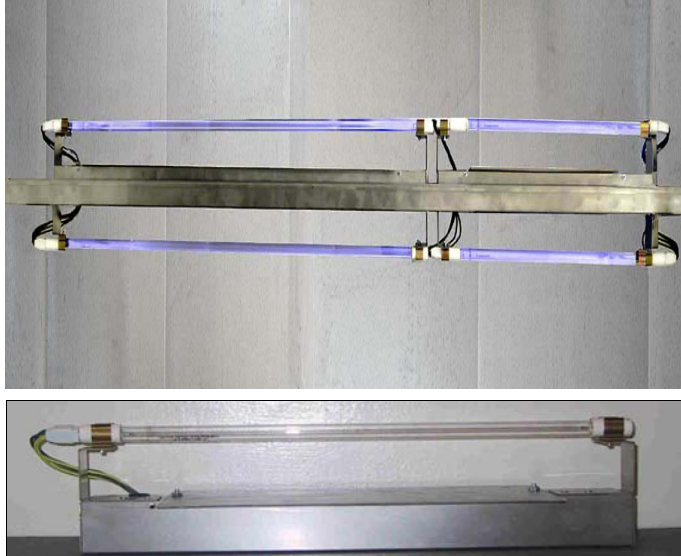
Ultraviolet Germicidal Units for Commercial Heating Ventilation and Air Conditioning Systems

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).

Supplies Return Before Return After



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



The Second Wind Commercial Series is the perfect choice for small or large commercial/Industrial 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 Commercial air purifiers are designed for surface and air disinfection.

Features and Benefits

- Available for all commercial applications
- Disinfects mold growth on cooling coils
- 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
- 304 Stainless steel construction
- Ti2 photo-catalytic surface area
- 3 year ballast warranty
- 1 year lamp warranty
- Over 9000 hours lamp expectancy
- Electronic start power supply ranges from 110/277 VAC
- Class II medical device #k980745
- Registered with the EPA #73112

SPECIFICATIONS

Second Wind Commercial units are mounted end to end or in channels to accommodate most HVAC systems. The units install anywhere in the system to disinfect molds, bacteria or reduce VOC contamination. The housing is 304 stainless steel and comes in 3 sizes (9", 18", and 36"). The 304 stainless is 0.08% C, 18% Cr, 2% Mn, 9% Ni, 1% Si, 0.045% P, 0.03% S, balance stainless steel. Second Wind units can be wired in parallel by using the channel and 1/2" electrical knock outs on each end. All units are manufacturer assembled and tested.

The power source is a total 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 980ma@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 titanium strips attached to the units are the catalyst for the production of hydroxyl radicals in the Photocatalytic 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%.

Dimensions:

- 9" 5009SL - 12.25"L x 3"W x 5"H
5009DL - 12.25"L x 3"W x 8.5"H
- 18" 5018SL - 17"L x 3"W x 5"H
5018DL - 17"L x 3"W x 8.5"H
- 36" 5036SL - 32.5"L x 3"W x 5"H
5036DL - 32.5"L x 3"W x 8.5"H

Weight

- 9" 5009SL - 3 lbs.
5009DL - 4 lbs.
- 18" 5018SL - 4 lbs.
5018DL - 5 lbs.
- 36" 5036SL - 7 lbs.
5036DL - 9 lbs.
- Track 5000T - 4 lbs.

Power Electronic Ballast

120 VAC - 277 VAC

Lamps

	36"	18"	9"
Base Face in. -	33.2	17.2	8.4
Length mm -	842.4	436.0	212.0
Arc Length in.-	28.0	14.2	5.2
mm -	710	360	131
Current mA-	980	980	980
Wattage W-	90	40	25
Voltage @60Hz-	102	86	32
UV Output W-	34	10	5
UV Output @1M			
uW/cm2 -	560	500	360
Lamp life hours-	9000	9000	9000

Wiring

Number 18 teflon coated wire 600V, 105C.

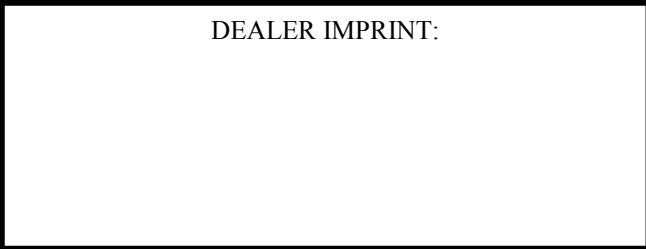
URV Rating

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.

36"	18"	9"
15	13	12

- 5000T- 74" Stainless Steel mounting track
- 5000C- Track Coupling
- 5000H- Track End Holders

Warranty 3-Years Fixture 1-Year Lamps



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