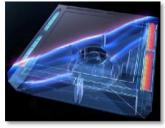


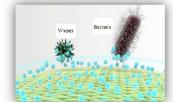
# New Designed Air-circulating LED Panel Light with Antiseptic and Anti-virus Nanometer Material



Fixture with centrifugal industrial fan



Nanometer silver killing the bacteria and virus



New nanometer material filter



#### **Product Features**

- Cleaning and Freshing air
- Automatically killing bacteria and virus in air
- Reducing the floating particles in air
- Eliminating the TVOC concentration in air
- Saving installation space
- Up to 110-130LM/W
- Input Voltage: 120-277Vac
- High-tech optical design
- Widely used for ambient lighting application
- Ambient operating temperature: -20°C to 50°C
- THD: <20%
- Power Factor > 0.95
- LED chip lifetime, L70 >100,000 hours @ 25°C
- Suitable for school, hospital, subway station, office, chain stores and etc.

# **Working Principle**

- 1. The surface of PC cover is coated with Nanometer Silver and Titanium Dioxide and the filters are aslo soaked with Nanometer Silver and Titanium Dioxide. When the bacteria or virus in air touch the surface of the Nanometer coating or filters, then they will be killed.
- Silver ion reacts with hydrogen sulfide ion in bacteria and inhibits its reproduction
- Produces superoxide free radicals and breaks down the bacteria
- Material surface is with electric charge that pull the membranes of bacteria, cause rupture and bring bacteria to death
- 2. The fixture is installed with centrifugal industrial fan which is powerful and silent with less noise when it works. Air comes into the intake and goes out through the outlet. The inhaled air will be purified by getting rid of the floating particles and automatically killing bacteria and virus in air.

#### **Parameters**

Model: SPZUCP2250

Power: 50W (35W LED, 15W FAN)

Input Voltage: AC 120-277V

Dim: 0-10V Dimmable Power Factor: ≥0.95

Lumens: 4000LM

Lumens Efficiency: ≥110Lm/W

CCT:4000K/5000K/6000K

CRI: >82

Emergency: 15W/90mins(Option)

CADR: 202CFM

Application Area: 100-165ft<sup>2</sup>

Noise: <40dB

Certification: UL(Pending), EPA, SGS and FDA(Pending)

Operating Life: 50000H

Working Temperature: -20~50°C

Size: 24"\*24"\*7"

Net Weight: 16.8LBS







Filters will be changed after working for 2160hrs when the indicator light is flickering. Using the pin to reset the

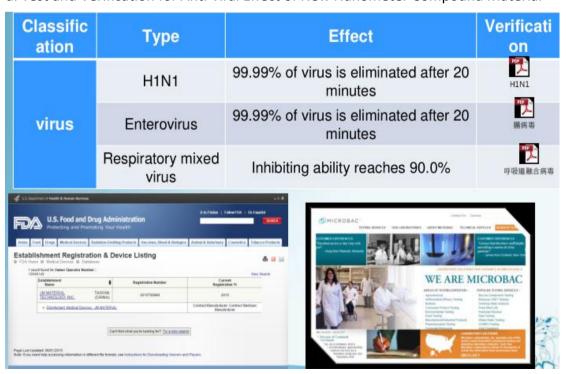
timing counter.

# **Shipment by One Full Container**

20GP 405pcs; 40GP 819pcs 40HQ 948pcs; 45HQ 1076pcs

## **Certifications**

a. Test and Verification for Anti-viral Effect of New Nanometer Compound Material



#### b. Test and Verification for Antiseptic Effect of New Nanometer Compound Material

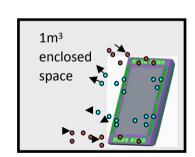
Classific ation	Туре	Effect	Verificati
Bacteria	Superbug	Antiseptic rate after 24 hours>99%	超級組織
	Tubercle	Inhabiting rate of tubercle>80.8%	結核菌
	Pseudomonas aeruginosa	Antiseptic rate after 24 hours>99%	珍嫩桿菌
	Staphylococcus	Antiseptic rate after 24 hours>99%	葡萄球大腸桿菌
	Colibacillosis	Antiseptic rate after 24 hours>99%	
	White Candida	Antiseptic rate after 10 minutes>99%	白色念珠菌
	Pneumophilia	Antiseptic rate after 24 hours>99%	退伍軍人領
	Salmonella	Antiseptic rate after 30 minutes>99%	沙門氏菌

#### c. Test and Verification for Organic Gas Decomposition

Classific ation	Туре	Effect	Verificati
Microbe	5 common microbes	No microbe growing after 28-day culture	御所
Environ ment	Formaldehyde	Antiseptic rate after 24 hours>99%	甲醛
	TVOC	Antiseptic rate after 24 hours>96.4%	TVOC
	ROHS	No Pb, Hg, Cd, Cr, PBB, PBDE	ROHS

#### d. Antiseptic Test for Air-circulating Panel Light

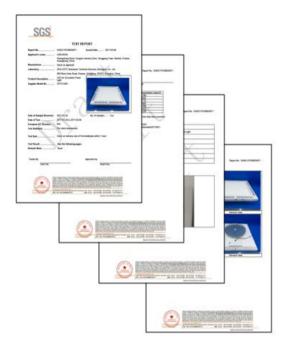




Specification referred to GB21551 (test space is revised as large as 1 m<sup>3</sup>)

- Inject Staphylococcus aureus by gas in 1m³ space
- Calculate value of natural colony ratio / formaldehyde concentration ratio before and after placing this fixture into the enclosed space
- As a clean antibacterial effect

## e. Air-circulating Panel Light Formaldehyde Decomposition Test

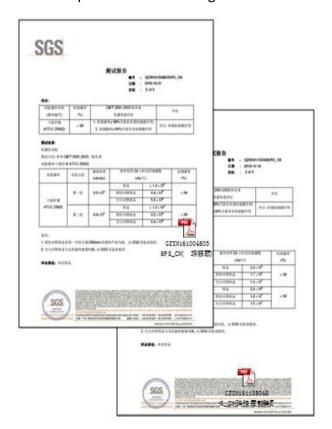


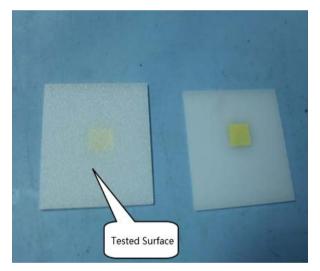
Test time (min)	Formaldehyde concentration(mg/m3)	Removal rate
0	1.18	/
10	0.932	21.02%
20	0.715	39.41%
30	0.493	58.22%
40	0.396	66.44%
50	0.322	72.71%
60	0.276	76.61%

## Pass the SGS lab test

- Conduct the experiment according to national standard GB18801-2015
- Use 30-cubic meters experimental chamber
- Decomposition and removal rate of formaldehyde reaches 76.61% in an hour

## f. Antiseptic Test for Panel Light





Shiny Surface Test(expanded)

#### Pass the SGS lab test

- Conduct the experiment according to national standard QB/T2591-2003
- Removal rate of staphylococcus reaches 99%