中国认可
国际互认
检测
TESTING
CNAS L0823

202019005395

广州市微生物研究所有限公司

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

检 测 报 告

TEST REPORT

Report Number	QX20210281
Name of Sample	UVC Air Disinfection Unit
Applicant	Signify Luminaires (Shanghai) Co., Ltd.

广州市微生物研究所有限公司 检验检测专用章

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Jul. 02, 2021
Date Analyzed: Jul. 05, 2021

Name of Sample	UVC Air Disinfection Unit	Source of Sample	Delivery
Applicant	Signify Luminaires (Shanghai) Co., Ltd.	Client	Kang Yangying
Manufacturer	Zhejiang Howell Illuminating Technology Co., Ltd.	Brand	——
Type and Specification	UVCA210	Quantity of Sample	1PC
Date of Production	2021.05.28	State of Sample	Machine
Batch Number	——	Packing of Sample	In box
Standard and Methods	1. GB 28235-2020 Hygienic requirements for ultraviolet appliance of disinfection 2. <Technical Standard For Disinfection>2002-2.1.3 Air disinfection effect evaluation test		
Items of Analysis	1. Ozone Leakage 2. Ultraviolet Leakage 3. Field Test (Natural bacteria in air)		
Remarks	Applicant Address: 2F, Building 1, No.2555, Hechuan Road, Minhang District, Shanghai; Manufacturer Address: No.1228 Tanjialing West Road, Lanjiang Street, Yuyao, Ningbo, Zhejiang, China.		

To be continued

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Methods for Ozone Leakage:

1. Test Equipment
   Model T400 Ozone analyzer
2. Operation Conditions of the Machine
   Set the switch to position "the highest wind speed".
3. Test Procedure
   1) Place the sample to be tested in 30 m^3 confined space.
   2) Test the background concentration.
   3)After the sample is turned on, the ozone concentration at 1.5 m away from the ground is measured according to the standard requirements, and the determination time is 1 h. The results are averaged.

Test Results

Number of Sample	Test Item	Test Result (mg/m^3)	Standard Request (mg/m^3) (GB 28235-2020)
QX20210281-1	Ozone Leakage	< 0.003	≤ 0.1

To be continued

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Methods for Measuring Ultraviolet Leakage:

1. Test Equipment
   Model ST-512 ultraviolet radiometer, sensibility: 1μW/cm^2.
2. Operation Conditions of the Machine
   Set the switch to position "the highest wind speed".
3. Test Procedure
   1) Test the background concentration.
   2) Turn on the sample and measure its radiation illumination with ultraviolet radiometer 30cm from the periphery of the sample after stabilization.

Test Results

Number of Sample	Test Item	Test Result (μW/cm^2)	Standard Request (μW/cm^2) (GB 28235-2020)
QX20210281-1	Ultraviolet Leakage	<1	≤5

To be continued

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Method for Testing Air Disinfection:

1. Test Equipment:
   1) Culture media : NA
   2) Sampling equipment: six-stage sieve sampler
   3) Test space: 30 m^3
2. Operation Conditions of the Machine
   Set the switch to position "the highest wind speed".
3. Test Procedure
   1) The equipment is placed in the test space, close the door, and collect natural bacteria by six-stage sieve sampler, as the bacterial count before disinfection.
   2) Start the sample and shut it down after running for 120 min. The natural bacteria are collected by six-stage sieve sampler, as the bacterial count after disinfection.
   3) In sampling, place the sampling equipment in the center of test chamber at the height 1.0 meter.
   4) Choose 2 NA plates (the same batch) as the negative control, and culture them on the same condition as the samples.
   5) The tests repeat three times, and calculate the death rate respectively.
4. Death Rate $K_t(\%)=\frac{V_0-V_t}{V_0}\times 100$

   where: V_0 = The Average Bacterial Count in Air before Disinfection;

   V_t = The Average Bacterial Count in Air after Disinfection.

Test results

Number of Sample	Test Strain	Test Time (min)	Test Number	The Average Bacterial Count in Air before Disinfection V_0 (cfu/m^3)	The Average Bacterial Count in Air after Disinfection V_t (cfu/m^3)	Death Rate K_t (%)
QX20210281-2	Natural Bacteria in Air	120	1	2.61×10^3	1.41×10^2	94.60
			2	2.23×10^3	1.27×10^2	94.30
			3	2.47×10^3	1.70×10^2	93.12

Note: The negative control group was sterile growth.

End of report

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广州市微生物研究所有限公司 检验检测专用章

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