

International Ozone Technologies Group, Inc.

Titan Hydroxyl Generator

UV TEST REPORT

SCOPE OF WORK

Clause 223.2 - UV Radiation Test

REPORT NUMBER

104011073CRT-003

ISSUE DATE

15-Aug-2019

PAGES

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PERFORMANCE TEST REPORT

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Issue Date: August 15, 2019

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USA

Intertek Report No. 104011073CRT-003
Intertek Project No. G104011073
Intertek Quote No.: Qu-00992238-3

Standard / Test Method	
UL 507 Ed.10 - November 9, 2017 Electric Fans	
<i>Test Purpose</i>	Clause 223.2 - UV Radiation Test
<i>Test Dates</i>	August 8, 2019



Christopher Klein
Engineer Team Lead
Lighting



David Ellis
Senior Project Engineer
Lighting

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Test Plan and Datasheets			
Client	INTERNATIONAL OZONE TECHNOLOGIES GROUP,	Engineer	Christopher Klein
Report #	104011073CRT-003	Reviewer	David Ellis
Product	UV Air Purification System	Model(s)	4000

Test Method	Test name	Clause	Pass Fail NA
UL507	Ultraviolet (UV) radiation test	223.2	Pass

Sample Information				
Date Rec.	Intertek ID	Description	Condition	Model No.
8/8/2019	CRT1907161050-001	Air Purifier	Production	4000

Picture(s)



Ultraviolet (UV) irradiance test

Method:

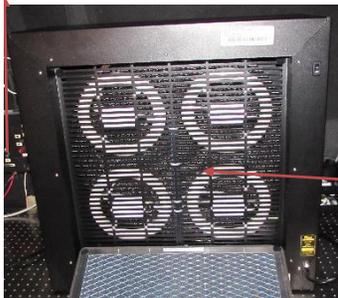
Measurements were performed using the Optronic OL-750D spectroradiometer. The area outside the test unit was scanned for the location of maximum UV output and UV scans performed at that location. The sample was powered directly by 120VAC input into the sample. Sample used was new and unseasoned.

Requirement:

Per UL-507 limit for UV leakage from the enclosure is 0.1 uW/cm².

Results:

Max UV Radiation extraneously emitted (S(λ) Weighted)		
Unit Opening	0.032	uW/cm ²
Max Allowable Limit	0.1 μW/cm ²	
Position 1	Pass/Fail	Pass



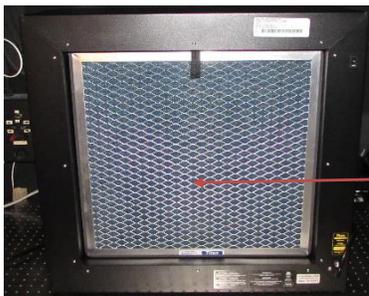
Position 1

Max UV Radiation extraneously emitted (S(λ) Weighted)		
Unit Opening	0.004	uW/cm ²
Max Allowable Limit	0.1 μW/cm ²	
Position 2	Pass/Fail	Pass



Position 2

Max UV Radiation extraneously emitted (S(λ) Weighted)		
Unit Opening	7.73E-04	uW/cm ²
Max Allowable Limit	0.1 μW/cm ²	
Position 3	Pass/Fail	Pass



Position 3

Conclusion:

Complies Device scanned output does not output levels above the UL-507 UV limit of 0.1 uW/cm².

Tested By:	Craig Small	Signature or initials:	
Reviewed By:	David Ellis	Signature or initials:	
Test Equipment Used:	1,2,3,4		
Amb (°C):	24.3	RH%:	33
		Completion Date:	8/9/19

Equipment Used				
#	Intertek ID No.	Description	Manufacturer	Calibration Due
1	Spectroradiometer	OL 750	Optronic	22-Jul-2019
2	Hygrometer	445703	Extech	26-Mar-2020
3	Digital Power Meter	WT1600	Yokogawa	01-Feb-2020
4	Current Transformer	411	Pearson	08-Mar-2020
5				
6				
7				

Note: For measurement uncertainty, refer to the calibration certificates for all the test equipment located in the equipment files