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Order No. G100556725

21 May 2012

Report Number: G100556725CRT-003
Model Number: UX 105
ARB Number: 1455

RENDERED TO:

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<u>Report Scope:</u>	Ozone Emissions Testing of Household Electrostatic Air Cleaners.
<u>Limitation Statement:</u>	The test data and results contained in this report are provided for client information and evaluation. No conclusions are drawn by Intertek.
<u>Authorization:</u>	The tests were authorized by signed quote # 500346630, dated 11/29/2011.
<u>Standard Used:</u>	UL Standard for Safety for Electrostatic Air Cleaners, UL 867, Section 40, Ozone Test, Fifth Edition, August 4, 2011.
<u>Report Content:</u>	<ol style="list-style-type: none"> 1. Unit Under Test 2. Peak Ozone Test Results 3. Max Ozone Test Results 4. Chamber Equipment 5. Summary/Signatures 6. Appendix



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1. Unit Under Test Information

MODEL

Manufacturer:	UVAIRX Inc	Pre-Filter:	No
Model Number:	UX 105	HEPA Filter:	No
		ESP Filter:	No
Fan Speeds:	1	Carbon Filter:	No
O3/Voltage Settings:	NA	UV Light:	Yes
O3 Monitor:	NA	Ionizer:	No
Model Notes:	On/ Off with Power. No settings or filters.		

FIRST SAMPLE

Control Number:	240912.01	Run-in Start:	1/20/12 1550
Serial Number:	DEN1111041444-001	Run-in End:	1/23/12 0853
Manufacture Date:	10/31/2011	Run-in Temperature:	77 ± 4 degF
Receive Date:	1/16/2012		
Received Status:	OK		
Sample Notes:			

SECOND SAMPLE

Control Number:	240912.02	Run-in Start:	1/20/12 1550
Serial Number:	DEN1111041444-002	Run-in End:	1/23/2012 0853
Manufacture Date:	10/31/2011	Run-in Temperature:	77 ± 4 degF
Receive Date:	1/16/2012		
Received Status:	OK		
Sample Notes:			

2. Peak Ozone Test Results

GRILL AND AIR PERIPHERY DIMENSIONS

		Date of Test:	2/2/2012
Grill Height:	4"	Air Periphery Height:	4"
Grill Width:	4"	Air Periphery Width:	3.5"
Estimated Grill Area:	12.56" Sq	Est. Air Periphery Area:	10.99"sq
Notes:			

PEAK LOCATIONS



Loc.	X	Y
-	[inches]	[inches]
1	0	0
2	-1.5	0
3	0	1.5
4	1.5	0
5	0	-0.5

* Location measurements are coordinates in reference to the center point.



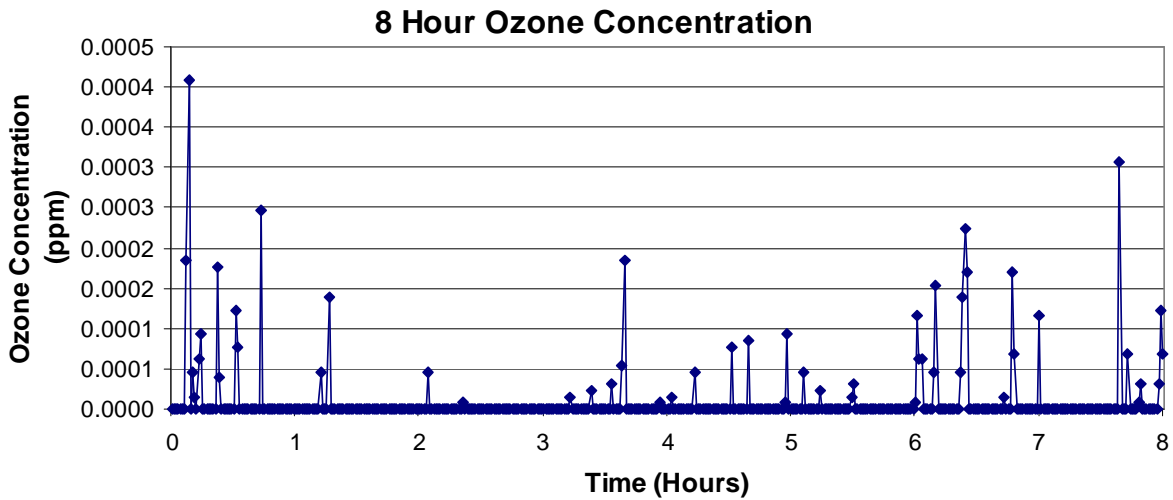
PEAK OZONE CONCENTRATIONS

<i>Location</i>	
	<i>On</i>
1	0.0004
2	0.0001
3	0.0008
4	0.0002
5	0.0000

Notes: - Ozone Concentrations less background level; in units of PPM.
- Peak concentration for each iteration is in **BOLD**.

3. Max Ozone Test Results

Date of Test:	2/2/2012
Sample:	1 of 2
Fan Speed:	On
Filter(s):	No Filters. UV light on.



MAXIMUM OZONE TEST RESULTS							
	UL Ref.	Pass/Fail	Mean	Min	Max	Delta	Units
Background C(t) O3:	40.4.3	PASS	0.000	0.000	0.000	0.000	[ppm]
Test 1min C(t) O3:	40.1.2	PASS	0.000	0.000	0.000	0.000	[ppm]
Test 5min C(t) O3:	40.1.2	PASS	0.000	0.000	0.000	0.000	[ppm]
Chamber Temperature:	40.4.2	PASS	77	76	77	1	[degF]
Chamber Humidity:	40.4.2	PASS	50	50	51	1	[%RH]
Chamber Static Pressure:	-	PASS	0.02	0.01	0.04	0.03	["H2O]
Chamber Supply Air Flow:	-	-	20	19	20	0	[SCFM]
Required to Test 2nd Sample:	40.1.1	NO					
Test Duration:	*40.4.6	8 hours					

Notes:	Max ozone reading was 0.0 ppm
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4. Chamber Equipment Information

Test Equipment List

Instrument	Model	Intertek Ctrl #	Cal Due Date
Teledyne – Advanced Pollution Instrumentation Ozone Calibrator	703E	O204	6-22-2012
Teledyne – Advanced Pollution Instrumentation Ozone Monitor	400E	O201	*
Teledyne – Advanced Pollution Instrumentation Ozone Monitor	400E	O202	*
Vaisala – Temperature & Humidity Transducer	HMD-70Y	T1307	04-26-12
Dwyer Airflow – Anemometer	471	Y202	08-9-12

* The 400E Ozone Monitor is calibrated using the 703E calibrator.



5. Summary/Signatures

The test sample(s) documented in this report were tested in accordance to the standard(s) referenced in the first page of this report.

The representative sample(s) have been tested, investigated, and found to comply with the requirements of the UL Standard 867 Section 40, criteria of emitting a maximum ozone concentration of less than 0.050 ppm. Furthermore a second sample was not required to be tested as the first sample's maximum emissions were less than 0.030 ppm to satisfy the exception in the Section 40.1.1.

This testing was conducted as part of the California Air Resources Board Certification program and is referenced with ARB Application No. 1455.

This report completes our evaluation covered by Intertek Project No. G100556725CRT-003. If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact the undersigned.

Please note; this Report does not represent authorization for the use of any Intertek certification marks.

<u>OZONE EMISSIONS SUMMARY</u>			
Fan Speed	Filter(s)	O3/Voltage Setting	C(t) _{max} [ppm]
On	None	-	0.000

Completed by:	Mark D. Titus	Reviewed by:	Eric Dunay
Title:	Assoc. Engineer	Title:	Engineer
Signature:		Signature:	
Date:	21 May 2012	Date:	21 May 2012

6. Appendix

DATA FILES

Test Name	Raw Data File
Model Half Life	1111_HalfLife_ozonelog.csv
Ozone: On	1112_ONNF_ozonelog.csv

ATTACHMENT DOCUMENTS

Document	Soft-copy File Name
ARB Application	1455
Chain of Custody: Sample 1	COC_240912.01.pdf
Chain of Custody: Sample 2	COC_240912.02.pdf

UUT PHOTOGRAPHS

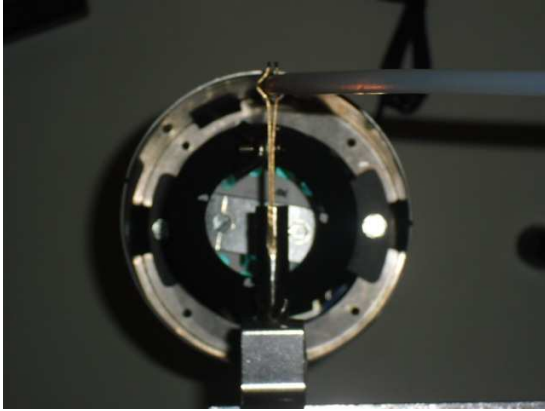


UUT



Nameplate

UUT PHOTOGRAPHS: PEAK TEST



On

UUT PHOTOGRAPHS: MAX OZONE TEST



On