

Air For Life UK LTD

OZONE TEST REPORT

SCOPE OF WORK

Ozone Emissions Testing of Household Electrostatic Air Cleaners for Model: AFL Car

REPORT NUMBER

104357568CRT-001

ISSUE DATE

6/12/2020

PAGES

10

QUOTE NUMBER

Intercompany Agreement

DOCUMENT CONTROL NUMBER

GFT-OP-10o (16-Oct-2017)

© 2020 INTERTEK



TEST REPORT FOR AIR FOR LIFE UK LTD

Report No.: 104357568CRT-001

Date: June 12, 2020

Jay Vitale
Air For Life UK LTD
402, Milton Keynes Business Centre,
Foxhunter Drive Hayley Court, Linford Wood,
Milton Keynes MK14 6GD
United Kingdom

Phone: +44 7884 008162
Email: info@airforlife.net

SECTION 1

SUMMARY

The representative sample(s) have been tested, investigated, and found to comply with the requirements of the following Standard(s):

Electrostatic Air Cleaners, UL 867, Section 40, Fifth Edition, August 4, 2011 revision: August 7, 2018

CSA 22-2 No.187-15, Section 7, February 2015, April 2016 Revision

The equipment identified in this report has been found to meet the criteria for emittance of ozone not exceeding a concentration of 0.050 ppm. Furthermore, a second sample was not required to be tested, according to UL 867, as the first sample's maximum emissions were less than 0.030 ppm, which satisfies the exception in the Section 40.1.1.

This report completes our evaluation covered by Intertek Project Number: G104357568 which has been authorized by Intertek Intercompany Agreement. 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.

OZONE EMISSIONS SUMMARY			
FAN SPEED	FILTER(S)	03/VOLTAGE SETTING	C(t) _{max} [ppm]
ON	NA	-	0.003
Highest 8-hour time weighted average: 0.000[ppmv]			
Completed by:	Joseph Hartley	Reviewed by:	Jacob Langenbacher
Title:	Technician II	Title:	Engineer
Signature:		Signature:	
Date:	6/10/2020	Date:	6/11/2020

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

SECTION 2

INDEX

Section Names	PAGE
1: Summary/Signatures	2
2: Index/ Chamber Equipment Information	3
3: Unit under test information	4
4: Peak test	5
5: Max Test(s) Information	7
6: Appendices	8
7: Revisions	10

CHAMBER EQUIPMENT INFORMATION

TEST EQUIPMENT LIST

Instrument	Model	Intertek Ctrl #	Cal Due Date
Teledyne – Advanced Pollution Instrumentation Ozone Calibrator	703E	O204	07-24-2020
Teledyne – Advanced Pollution Instrumentation Ozone Monitor	400E	O202	*
Vaisala – Temperature & Humidity Transducer	HMD-70Y	T1307	06-03-2021
Fluid Components International- Flow meter	ST75V	F463	08-06-2020

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

SECTION 3

UNIT UNDER TEST INFORMATION

MODEL INFORMATION			
Manufacturer:	Air for Life UK LTD	Pre-Filter:	No
Model Number:	AFL Car	HEPA Filter:	No
Production/Prototype/ Design	Production	ESP Filter:	No
Fan Speeds:	1	Carbon Filter:	No
O3/Voltage Settings:	-	UV Light:	Yes
O3 Monitor:	-	Ionizer:	Yes
Model Notes:	Model has a single fan speed.		

RUN-IN TEST			
FIRST SAMPLE			
Run-in Start:	5/29/2020 4:00 PM	Run-in End:	6/1/2020 9:00 AM
Run-in Temperature:	77 +/-4	Tracking Number:	CRT2005280936-001
Serial Number:	AFLCARW001965	Manufacture Date:	NA
Sample Notes:			
SECOND SAMPLE			
Run-in Start:	NA	Run-in End:	NA
Run-in Temperature:	NA	Tracking Number	CRT2005280936-002
Serial Number	AFLCARW001928	Manufacture Date:	NA
Sample Notes:	Per the exception listed under clause 40.1.1 of UL 867, the second sample was not required to be tested.		

SECTION 4

PEAK OZONE TEST

GRILL AND AIR PERIPHERY DIMENSIONS			
		Date of Test:	6/1/2020
Grill Height:	NA	Air Periphery Height:	NA
Grill Diameter:	1.75	Air Periphery Diameter:	1.75
Estimated Grill Area:	3.140	Est. Air Periphery Area:	3.140
Notes:	Measurements are in Inches		

PEAK LOCATION			
Loc.	X	Y	
-	[inches]	[inches]	
1	0	0.8750	
2	-0.8750	0	
3	0	0	
4	0.8750	0	
5	0	-0.8750	
* Location measurements are coordinates in reference to the center point.			



PEAK OZONE CONCENTRATIONS (ppm)				
Location	<i>Unit Power</i>			
	<i>ON</i>			
1	0.0003			
2	0.0006			
3	0.0005			
4	0.0004			
5	0.0008			

Note: Peak Ozone Test concentrations are shown with background subtracted.

SECTION 5

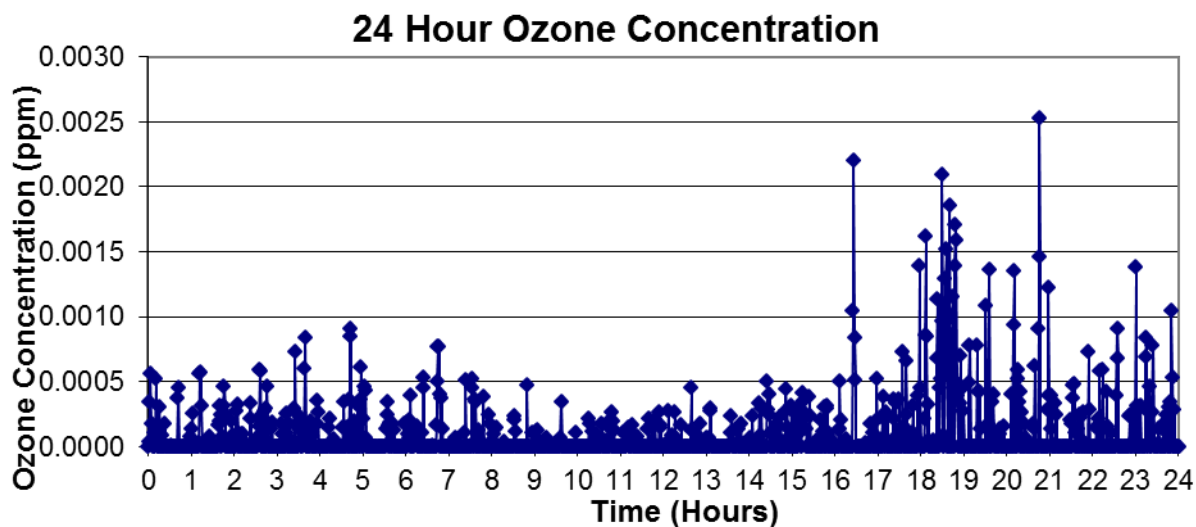
MAX OZONE TEST

START DATE OF TEST: 6/1/2020

SAMPLE: First Sample

FAN SPEED: ON

FILTER(S): Ionizer and UV light ON



MAXIMUM OZONE TEST RESULTS							
	UL Ref.	Pass/Fail	Mean	Min	Max	Delta	Units
Background C(t) O3:	40.4.3	PASS	0.001	0.000	0.001	0.001	[ppm]
Test 1min C(t) O3:	40.1.2	PASS	0.000	0.000	0.003	0.003	[ppm]
Test 5min C(t) O3:	40.1.2	PASS	0.000	0.000	0.001	0.001	[ppm]
Chamber Temperature:	40.4.2	PASS	77	77	77	1	[degF]
Chamber Humidity:	40.4.2	PASS	50	50	51	2	[%RH]
Chamber Static Pressure:	-	PASS	0.02	0.01	0.03	0.02	["H2O]
Chamber Supply Air Flow:	-	-	20	20	20	0	[SCFM]
Required to Test 2nd Sample:	40.1.1	NO					
Test Duration:	*40.4.6	24 hours					

NOTES: Peak Test Location 5

Highest 8-hour time-weighted average: 0.000 [ppmv]

All 8-hour time-weighted averages:

0h-8h: 0.000 [ppmv]

8h-16h: 0.000 [ppmv]

16h-24h: 0.000 [ppmv]

SECTION 6**APPENDIX****DATA FILES**

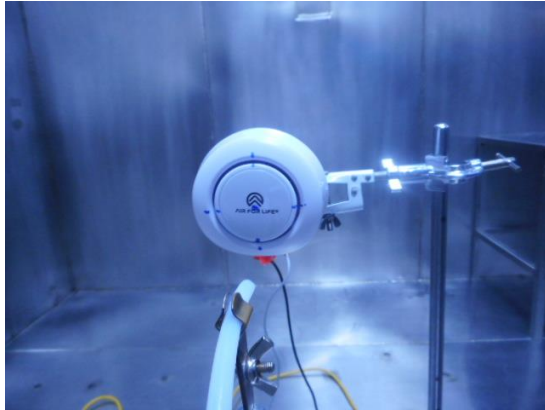
TEST NAME	RAW DATA FILE
Model Half Life	4027 Halflife ozonelog.csv
Max Ozone: ON	4028 Max ON ozonelog.csv

ATTACHMENT DOCUMENTS

DOCUMENT	SOFT-COPY FILE NAME
ARB Application	NA
Chain of Custody: Sample 1	COC_CRT2005280936-001.pdf
Chain of Custody: Sample 2	COC_CRT2005280936-002.pdf

UUT PHOTOGRAPHS**No Nameplate****UUT****Nameplate**

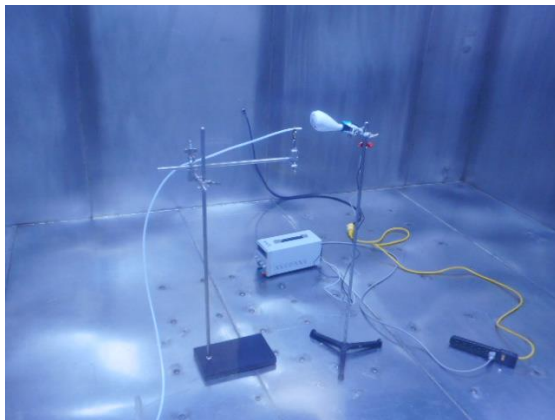
UUT PHOTOGRAPHS: PEAK TEST



Location 5

Unit ON

UUT PHOTOGRAPHS: MAX OZONE TESTS



Location 5

Unit ON

7.0 REVISION SUMMARY

Date/Proj # Site ID	Project Handler/ Reviewer	Section	Description of Change
			None