



3933 US Route 11
Cortland, NY 13045

Telephone: +01 607 753 6711
Facsimile: +01 607 756 9891
www.intertek-etlsemko.com

Order No. G102137862

Issued: 28 MAY 2015
Revised: None

Report Number: 102137862CRT-001
Model Number: ACA-RN-0001
ARB Number: NA

RENDERED TO:

Mr. Mallie Seckinger
Aviation Clean Air (ACA)
123 West Side Blvd
Pooler, GA 31322 USA
Email: mallieseckinger@att.net

<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 # 500599709, dated 5/15/15.
<u>Standard Used:</u>	UL Standard for Safety for Electrostatic Air Cleaners, UL 867, Section 40, Ozone Test, Fifth Edition, August 4, 2011 with revisions to and including August 23, 2013 per client request
<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 7. Revision Summary



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 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.



Report No. 102137862CRT-001
Issued: 28 MAY 2015
Revised: None

1. Unit Under Test Information

MODEL

Manufacturer:	Aviation Clean Air	Pre-Filter:	No
Model Number:	ACA-RN-0001	HEPA Filter:	No
Production/Prototype/ Design	Prototype	ESP Filter:	No
Speeds:	1	Carbon Filter:	No
O3/Voltage Settings:	--	UV Light:	No
O3 Monitor:	--	Ionizer:	Yes
Model Notes:	28 VDC In-duct type unit equipped with two ionizers.		

FIRST SAMPLE

Control Number:	CRT1505191043	Run-in Start:	15:05 5/19/15
Serial Number:	00019	Run-in End:	15:30 5/21/15
Manufacture Date:	NA	Run-in Temperature:	77 ± 4 degF
Receive Date:	5/19/15		
Received Status:	OK		
Sample Notes:			



Report No. 102137862CRT-001
Issued: 28 MAY 2015
Revised: None

PEAK OZONE CONCENTRATIONS

Location	Ionizer On		----		----		----	
	Highest	----	----	----	----	----	----	----
1	0.0435							
2	0.0032							
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

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

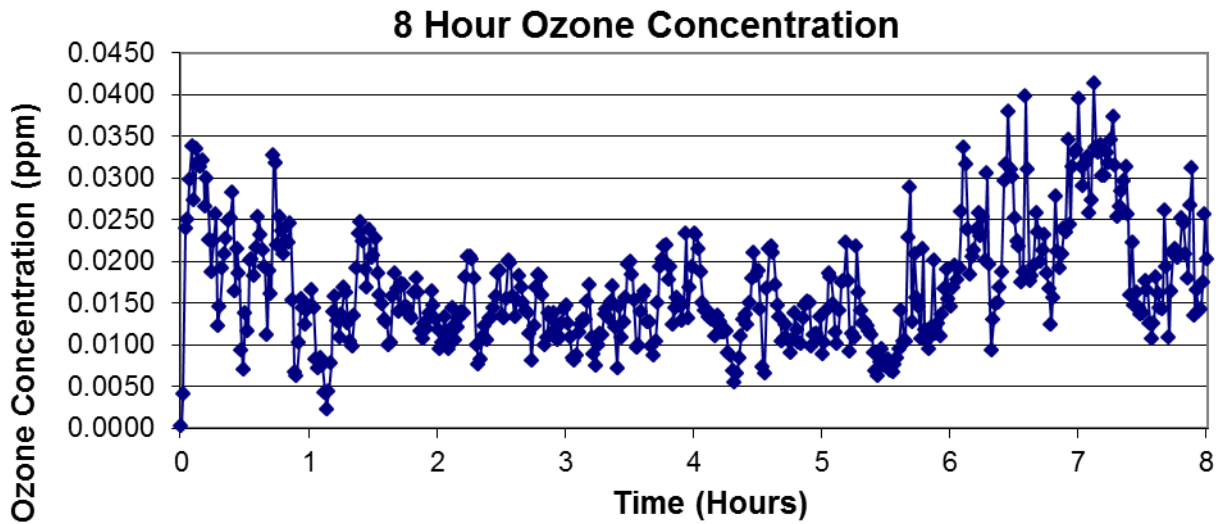


Report No. 102137862CRT-001
 Issued: 28 MAY 2015
 Revised: None

2. Max Ozone Test Results

Start Date of Test:	5/22/15
Sample:	1 of 1
Setting:	ON
Filter(s):	NA

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	0.001	0.001	[ppm]
Test 1min C(t) O3:	40.1.2	PASS	0.015	0.000	0.043	0.043	[ppm]
Test 5min C(t) O3:	40.1.2	PASS	0.015	0.001	0.034	0.034	[ppm]
Chamber Temperature:	40.4.2	PASS	77	77	77	1	[degF]
Chamber Humidity:	40.4.2	PASS	50	48	52	3	[%RH]
Chamber Static Pressure:	-	PASS	0.02	0.01	0.03	0.03	["H2O]
Chamber Supply Air Flow:	-	-	20	19	20	0	[SCFM]
Required to Test 2nd Sample:	40.1.1	YES					
Test Duration:	*40.4.6	24 hours					



Notes:	
--------	--



Report No. 102137862CRT-001
Issued: 28 MAY 2015
Revised: None

Chamber Equipment Information

Test Equipment List

Instrument	Model	Intertek Ctrl #	Cal Due Date
Teledyne – Advanced Pollution Instrumentation Ozone Calibrator	703E	O204	10-16-2015
Teledyne – Advanced Pollution Instrumentation Ozone Monitor	400E	O201	*
Teledyne – Advanced Pollution Instrumentation Ozone Monitor	400E	O202	*
Vaisala – Temperature & Humidity Transducer	HMD-70Y	T1307	06-8-15

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



Report No. 102137862CRT-001
 Issued: 28 MAY 2015
 Revised: None

3. 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. However, a second sample is required to be tested as the first sample's maximum emission was **not** less than 0.030 ppm to satisfy the exception in the Section 40.1.1.

This report completes our evaluation covered by Intertek Project No. G102137862. 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>			
Setting	Filter(s)	O3/Voltage Setting	C(t) _{max} [ppm]
On	-	-	0.043

Completed by: Title:	Brian Bielawa Engineer	Reviewed by: Title:	Phillip Armstrong Associate Engineer
Signature:		Signature:	
Date	5/28/15	Date:	5/28/2015

4. Appendix

DATA FILES

Test Name	Raw Data File
Model Half Life	1898_HalfLife_ozonelog.csv
Max Ozone: ON	1899_ON_ozonelog.csv

ATTACHMENT DOCUMENTS

Document	Soft-copy File Name
Chain of Custody: Sample 1	COC_CRT1505191043-001.pdf

UUT PHOTOGRAPHS

 <p style="text-align: center;">UUT</p>	 <p style="text-align: center;">Nameplate</p>
--	---

UUT PHOTOGRAPHS: PEAK TEST



Setting: On

UUT PHOTOGRAPHS: MAX OZONE TEST



Setting: On



Report No. 102137862CRT-001
Issued: 28 MAY 2015
Revised: None

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