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Quote No. 500327586

06 September 2011

Report Number: 500327586
Model Number: Prototype

RENDERED TO:

Silent Knight / Silent Night

<u>Report Scope:</u>	CADR, Ozone Emissions, and Sound Testing of a Household Electrostatic Air Cleaner.
<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 500327586. Tests were performed on 8/30/2011
<u>Standard Used:</u>	UL Standard for Safety for Electrostatic Air Cleaners, UL 867, Section 37 Fourth Edition, December 21, 2007 (In Partial). The test sample was placed in the Max ozone Chamber for 2 hours and ozone measurements were recorded 2 inches from the outlet of sample at the center of the outlet grill ANSI/AHAM AC-1-2006 (In Partial) 48 hour run in period was waived for this test
<u>Report Content:</u>	<ol style="list-style-type: none"> 1. Unit Under Test 2. Max Ozone Test Results 3. CADR Test Results 4. Sound Test Results



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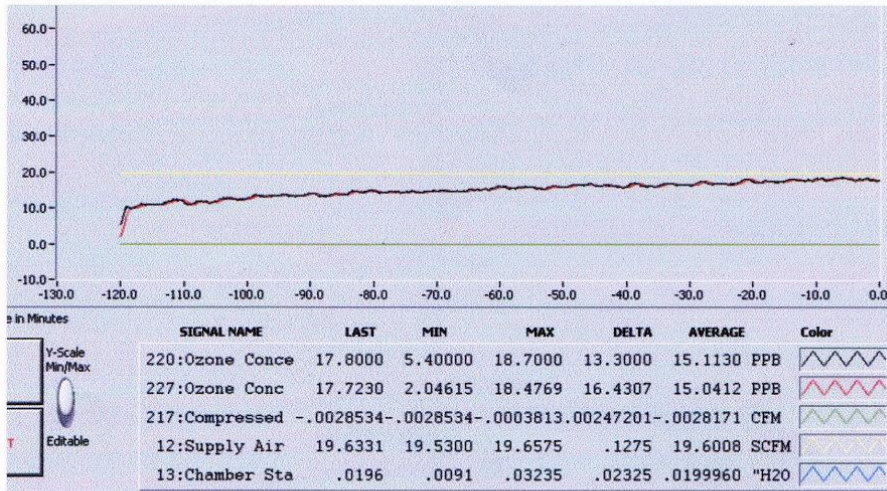
1. Unit Under Test Information

Manufacturer:	Silent Night LLC	Fan Speeds:	1
Model Number:	Prototype	Ionizer	yes
Control Number:	234234	UV Light	no
Serial Number:	NA		
Manufacture Date:	NA		
Receive Date:	8/30/2011		
Sample Notes:	Prototype Sample. Customer specified one 2 hour ozone sampling test from the center of the grill only. No 48 hour run in. No peak test. All filters as installed by customer. Test was performed		

2. Max Ozone Test Results

OZONE EMISSIONS SUMMARY			
Fan Speed	Filter(s)	O3/Voltage Setting	C(t) _{max} [ppm]
ON	YES	-	0.018

The test sample was placed in Intertek's max Ozone chamber for a period of two hours. A graph of the data is shown below (units below are parts per billion).





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Ozone Equipment Information

Test Equipment List

Instrument	Model	Intertek Ctrl #	Cal Due Date
Teledyne – Advanced Pollution Instrumentation Ozone Calibrator	703E	O200	1-6-2012
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.



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3. CADR Test Results

Model/Configuration	Test Particulate	Natural Decay Rate	CADR	CADR STDEV.	Power (Watts)
Silent Night Prototype	Smoke	0.00256	101.3	0.3	20.4

Standby power : 0.1 Watts

Conclusion:

The results reported above fall within the minimum and maximum limits of measurability of the ANSI/AHAM AC-1-2006 "Association of Home Appliance Manufacturers Method for Measuring Performance of Portable Household Electric Room Air Cleaners" Test Method. These results were within the stated limits.

CA DR Equipment Information

Equipment Used	Model Number	Intertek Control #	Cal. Due Date	Date Cal. Performed
Airborne particle Spectrometer	HSLAS II	N1203	2/25/12	2/25/11
Temperature/Humidity Sensor	HMW30YB	T680	01/10/12	01/10/11
Power Analyzer	WT210	G065	11/16/11	11/16/10
Power Supply	3007ix	O148	01/10/12	01/10/11



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4. Sound Test Information

Sound Measurement taken 8/30/2011:

Using Hand Held Integrating Sound Level Meter Type 2238 Ser# 2124911
Cal 3/22/2011; due 3/22/2012

Measurement of Background with unit off: 55.8 db
Measurement with unit on: 56.0 db
All sound measurements were 2 inches from the centre of the grill.

Summary/Signatures

This report completes our evaluation covered by Intertek Quote No. 500327586. 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.

Completed by:	Mark D. Titus	Reviewed by:	Eric Dunay
Title:	Assoc. Engineer	Title:	Engineer
Signature:		Signature:	
Date:	06 September 2011	Date:	06 September 2011



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Appendix

DATA FILES

Test Name	Raw Data File
Max Ozone: High Speed w/ Filter	1005_ONWF_ozonelog.csv

UUT PHOTOGRAPHS: MAX OZONE TEST

