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Letter Report - CARB Application

December 21, 2020 Intertek Report No.104467759CRT-001A Intertek Project No.G104467759

Scientific Air Management LLC Randy Nobles 1301West Copans Road Suite C6 Pompano Beach, FL 33060 USA

Phone: (305) 244-4894

Email: Randy.Nobles@samairsystems.com

Subject: CARB Application for model: SAM400

Dear client;

Title:

This letter report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standard(s):

<u>Electrostatic Air Cleaners, UL 867</u>, **Section 40**, Fifth Edition, August 4, 2011 revision: August 7, 2018.

For the purpose of meeting;

REGULATION FOR LIMITING OZONE EMISSIONS FROM INDOOR AIR CLEANING DEVICES, California Code of Regulations, Title 17. Public Health, Division 3. Air Resources, Chapter 1. Air Resources Board, Subchapter 8.7. Indoor Air Cleaning Devices, Article 1. Indoor Air Cleaning Devices.

Intertek wishes to inform you that the applicable sections of the CARB application for the above-mentioned product has been completed by Intertek. The application form is ready for you to take the necessary actions for completion and submission to CARB.

Documents issued with this letter report:

- PDF of the CARB application, included in this letter report
- An editable version of the CARB application
- The Chain of Custody file for the CARB application

Please contact the California Air Resource Board for further inquiries related to the status of your application and the addition of your product to their directory. For any request regarding additional evaluation please contact you Intertek account manager.

Issuance of this letter report completes the evaluation and testing covered by Intertek Project No. G104467759. If there are any questions regarding the contents of this report, please do not hesitate to contact the undersigned.

Completed by: Paul J. Comfort Jr. Reviewed by: Jacob Langenbacher
Senior Associate

Engineer Title: Engineer

Signature: Signature: Date: December 17, 2020 Date: December 21, 2020

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





March 10, 2021

Randolph Nobles Scientific Air Management LLC 1301 West Copans Road, Suite C6 Pompano Beach, Florida 33060

Dear Mr. Nobles:

Thank you for submitting application number 2890 for certification of your indoor air cleaning device by the California Air Resources Board (CARB). CARB staff have reviewed the submitted application for completeness and concluded that the application is complete. CARB staff have also determined that your device, Scientific Air Management brand, model S400, model number 2017009911, complies with the State of California's testing, electrical safety, and ozone requirements specified in Title 17, California Code of Regulations, subchapter 8.7 "Indoor Air Cleaning Devices" (air cleaner regulation).

As part of the regulation, CARB issues Executive Orders for all devices that have been certified as meeting the requirements of the regulation. The enclosed Executive Order, number G-21-088, is a legal document that states that the indoor air cleaning device listed has completed the certification process required by the State of California.

Although your air cleaner has been certified by CARB, several further steps are required in order to ensure that it complies fully with the air cleaner regulation. The unit is required to display a label printed on the package that indicates CARB certification. The labeling requirements are found in Sections 94801(a)(20) and 94806 of the Final Regulation Order (at www.arb.ca.gov/our-work/programs/air-cleaners-ozone-products/air-cleaner-regulation-ab-2276). Please note that these include specifications regarding the size, content, and placement of the label indicating the device's compliance with the regulation on the device's packaging.

In addition to the package labeling requirements, the air cleaner must also carry the mark of the testing organization, per Section 94806(d) of the regulation. Also, please review the record keeping requirements regarding production, quality control, sales, and testing records, which are specified in Section 94808 of the regulation; such records must be maintained for as long as the air cleaning device is sold or in commerce, and make the records available to CARB upon request.

Manufacturers of CARB certified air cleaning devices are no longer required to implement the notification requirement for their certified devices. Manufacturers of uncertified ozone-generating air cleaning devices manufactured, sold, or distributed in



ARB Application No.	
	Assigned by ARB

INDOOR AIR CLEANING DEVICE CERTIFICATION APPLICATION

Please read the instructions carefully before completing this application.

Contact Person	ity Submitting Appli				
Contact Person	First		Last		
Mailing Address					
	City	State/Province	Zip	Country	
Phone		Fax _			
Email		Website			
2. Model Manufactur	red For				
Contact Person					
_	First		Last		
Mailing Address					
	City	 State/Province	Zip	Country	
Phone	city	Email	Δip	Country	
	r multiple brand pame	retailers, please attach contact info	ormation for	all other such retailers	
3. Company/Plant W				an other sacrifetaners.	
Contact Person		· ·			
	First		Last		
Mailing Address					
	City				
	City	State/Province	Zip	Country	
Phone					
Phone ☐ Please check this bo	x if Section A contains	Email _	rish not to he	made nublic	
Please check this bo		Email _ proprietary information that you w		made public	
☐ Please check this bo	JRER REPRESEI	Email _ proprietary information that you w	N		-t
Please check this bo B. MANUFACTU Complete if application	JRER REPRESEI	Email _ proprietary information that you w	N		cturer.)
Please check this bo B. MANUFACTU Complete if application Organization	JRER REPRESEI	Email _ proprietary information that you w	N		cturer.)
Please check this bo B. MANUFACTU Complete if application	JRER REPRESEI n is being submitted by	Email _ proprietary information that you w	N fication organ		cturer.)
Please check this bo B. MANUFACTU Complete if application Organization	JRER REPRESEI	Email _ proprietary information that you w	N		cturer.)
Please check this bo B. MANUFACTU Complete if application Organization Contact Person	JRER REPRESEI n is being submitted by	Email _ proprietary information that you w	N fication organ		cturer.)
Please check this bo B. MANUFACTU Complete if application Organization Contact Person	JRER REPRESEI In is being submitted by First	Email _ proprietary information that you w NTATIVE INFORMATIO a professional association or certif	N fication organ	nization on behalf of the manufac	cturer.)
Please check this bo B. MANUFACTU Complete if application Organization Contact Person	JRER REPRESEI n is being submitted by	Email _ proprietary information that you w	N fication organ		cturer.)
Please check this bo B. MANUFACTU Complete if application Organization Contact Person	JRER REPRESEI In is being submitted by First	Email _ proprietary information that you w NTATIVE INFORMATIO a professional association or certif	N fication organ	nization on behalf of the manufac	cturer.)

Title

ARB Application No.	
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Assigned by ARB

INDOOR AIR CLEANING DEVICE CERTIFICATION APPLICATION

C. INDOOR AIR CLEANING DEVICE INFORMATION

			information for the r webpage upon certif			ed. The inform	nation given below will
Brand Name			Model N	lumbe	r l		
Model Name					_		
lf' va lf"	'yes", plea riations fro 'no", skip s	se enter the application the previously continued to the previously continued to the properties of the	at has previously bee ation number of the certified model in sec aceed to section C.3 b reviously certified a	model tion C. pelow.	already cer 1 above, an	tified, enter th d complete se	
Brand N	ame			Mode	el Number	Γ	
Model N					lel Group		
have more than Include all diffe	8 addition	nal models, please o	obtain a separate ap	plicatio	on number a	and complete	o in the box below. If you another application form.
☐ Please check	this box if S	Section C contains p	roprietary informatio	n that ;	you wish no	t to be made pu	ublic
			del group" in the ii t ARB's definition c				on, and have
Signature						D	Date
(Manufactu	rer or representati	ve of the manufactu	rer)			
Print Name							



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INDOOR AIR CLEANING DEVICE CERTIFICATION APPLICATION

D. DEVICE DESIGN AND OPERATION

1. Principles of Design and Operation. DESCRIBE THE BASIC DESIGN AND FUNCTION CLEANER BELOW. Attach schematics and additional documentation sufficient to verall additional models listed in Section C that have any methe tested device model, and highlight those mechanical or electronic differences. AND SPECIFY PERTINENT PAGE NUMBERS BELOW.	rify the design and operation principles. chanical or electronic differences from
<u>2. Maintenance Requirements.</u> Describe all maintenance requirements. Attach ac PLEASE LIST ALL RELEVANT ATTACHMENTS AND SPECIFY PERTINENT PAGE NUMBER	
3. Documentation of meeting appropriate electrical safety test requirements for before October 18, 2008. Please indicate here the title of any such documentation application. Documentation must demonstrate the device's compliance with ANSI/I devices, the appropriate electrical safety standard. Completion of Sections E and F completed the testing is considered adequate documentation and will expedite the acceptable forms of documentation please see the certification application instruction.	n that you are submitting with this UL Standard 507, or for multifunction of the application by the laboratory that review of your application. For other
4. Available marketing materials, owner's manuals, listing reports, and a copy o If the listing directory is not enclosed, enter the web address to the electrical safety l	
\square Please check this box if Section D, and attachments listed therein, contains proprietar made public	ry information that you wish not to be
The information provided in Sections A through D on this form is true and corre	ct to the best of my knowledge.
Signature	Date
(Manufacturer or representative of the manufacturer)	
Print Name	
Title	



Sections E and F to be Completed by the Testing Laboratory Only

Assigned by ARB

INDOOR AIR CLEANING DEVICE CERTIFICATION APPLICATION

E. Al	R CLEANER	R TEST INF	ORMATION	(To be Completed by	v the Testino	Laboratory	(Only)
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Testing Organ	ization <u>I</u>	ntertek					
Facility ID	Cortland Rt	11		Chamber II	D CRT-	-OZONE01	
Test Documer	nt 104467759	CRT-001					
Mailing Addre	ess 3933 US Ro	ute 11					
	Cortland		N				13045
	City		St	ate			Zip
Contact Persoi	Michael			Hudon			
Dhone 607	First			Last	607.75	. 7560	
	753 - 6711 nael.hudon@in	tortok com		– Fax – Wobsito		53-7560 ntertek.com	
			(To be Completed by t	_			
standard(s).	meets the requ	mements of the <i>i</i>	ANSI/UL standard in	dicated bei	iow, iii i	·	
<u> </u>	All of 86	57 🔀 O	nly Section 40 - Ozo	ne Test		Other Standard	d (if not listed)
					her (sp	·	ember 21, 2007, and
Unit	Manufacture Date		Model Name	and Numbe	er		Unique Manufacture Date Lab Sample Number
Unit 1		Dec 16, 2020	SAM400				(CRT2012091007-001)
Unit 2	Oct 12, 2020	NA	SAM400			G400-00-02158(CRT2012091007-002)
b. Can the d	evice be opera ce designed fo	ited with filters re or use with multip	s) not functioning? emoved? Yes ble filter technologie noved? (Please expl	□ No	es [_ Yes ⊠ No ⊠No Yes □ No	
	r Removal: If a	nswerina "no" to	either (b) or (d), the	n briefly ex	plain h	ow the ozone em	nissions test was

California	Environmental	Protection	Agency
Θ Ξ Δi	r Resour	rcae R	nard

ARB Application No.	

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INDOOR AIR CLEANING DEVICE CERTIFICATION APPLICATION

Report ozone test results below as the maximum concentration minus the background concentration. If the device is provided with multiple speeds/output levels, please provide the ozone test results for all settings for which the device was tested. Attach additional sheets if necessary.

device was tested. Attach additional sheets in necessary.				
List Setting	Concentration (ppm)	Test Length (hrs)	Concentration (ppm)	Test Length (hrs)
High fan speed (24 light bars lit). HEPA and Carbon Filters installed. UV Light on.	0	8		
Low fan speed (1 light bar lit). HEPA and Carbon filters removed. UV light on	0.001	8		
Low fan speed (1 light bar lit). HEPA and Carbon filters installed. UV light on	0.001	8		

Please describe any test failures, transitory exceedances, and other related information. Relevant information includes excess transitory excursions, motor failure during the test, devices not received with packaging intact, stopping the test due to electrical parts overheating, etc. Attach additional sheets, if necessary. List all relevant attachments and specify pertinent sections/page numbers from all attachments below.

Please also list any ATM, listing report number or other relevant information, if available, below. Electrical Safety evaluation underway at Intertek: Project G104500098.

A copy of the chain of custody sheet for the device(s) tested is attached.

I personally tested this device, or am the representative who is responsible for the tests; the information provided in Sections E and F of this application is true and correct to the best of my knowledge.

Signature Date Dec 17, 2020

(Test facility or test organization representative)

Print Name Paul J. Comfort Jr.

Title Senior Associate Engineer

ARB Application No.	

Assigned by ARB

INDOOR AIR CLEANING DEVICE CERTIFICATION APPLICATION

G. ADDITIONAL COMMENTS (attach additional sheets if necessary)

Signature		Date
	(A signature is only necessary here if Section G is filled in.)	
Print Name		
Title		·
	curer Checklist for Submission of Air Cleaner App mitting your application please make sure that you have con	
□ Include t	he application number that was assigned to you by ARB on each page o	f the application
□ Sign the	application on page 3. If applicable, sign the form on page 2 and 6.	
□ Have the page 5.	testing laboratory complete Sections E and F and obtain the required si	gnature from the testing laboratory on
□ Include o Section C	levice schematics depicting operation, such as a wiring diagram or block .	diagram, for all devices listed in
□ Attach a	chain of custody form for devices receiving the ozone test.	
□ Include c	perations manuals and marketing materials, as available.	
the listing o	locumentation of meeting the current electrical safety requirements, e.g directory web page. Mechanical-filtration only devices certified to the ap 18, 2008 only require submission of documentation of previously succes	ppropriate electrical safety standard prior

Chain of Custody Form Ozone Testing Facility



As of: 12/16/2020 8:00AM

Control Number:	CRT2012091007-001	Client:	Scientific Air Management
Model Number:	SAM400	Project Number:	G104467759
Serial Number:	G400-00-02160	Sample Selection:	1 / 2
Notes:			

Name	Purpose	Location	Date	Notes
Shipping	Received	Warehouse	12/09/2020	
Joe Hartley	Move	Fan Lab	12/12/2020	
Joe Hartley	48 Hr. run-in	Fan Lab	12/12/2020	Start run-in 2:15PM
Joe Hartley	Move	Ozone	12/14/2020	Stop run-in 2:25PM
Paul Comfort	Halflife	Ozone	12/14/2020	
Paul Comfort	Peak O3	Ozone	12/14/2020	
Paul Comfort	Max O3	Ozone	12/14/2020	
Paul Comfort	Peak O3	Ozone	12/15/2020	
Paul Comfort	Max O3	Ozone	12/15/2020	
Paul Comfort	Max O3	Ozone	12/15/2020	

Chain of Custody Form Ozone Testing Facility



As of: 12/16/2020 8:00AM

Control Number:	CRT2012091007-	002	Client:	Scientific Air Manag	gement
Model Number:	SAM400		Project Number:	G1044677	759
Serial Number:	G400-00-02158		Sample Selection:	2 /	2
Notes:					
Nam	10	Purpose	Location	Date	Notes
Shinn	ina	Received	Warehouse	12/09/2020	·

Randolph Nobles March 10, 2021 Page 2

California are required to submit documentation that they have notified their distributors, retailers, and sellers about this regulation and have provided a copy of the regulation to them. Information about the notification requirement may be found in Section 94807 of the regulation located at https://ww2.arb.ca.gov/our-work/programs/air-cleaners-ozoneproducts/air-cleaner-regulation-ab-2276.

Please note that we have an email address that we ask you to use for submittal of all new applications, requests for application numbers, and any general questions you may have about the regulation. The email address is aircleaners@arb.ca.gov. Note that you will normally receive confirmation that we have received your application or request within 1-2 business days of receipt. If you have not received an email from us confirming receipt of your request within 5 days of submittal, please contact us directly.

For questions regarding the regulation, please view CARB's responses to frequently asked questions (FAQ), available at www2.arb.ca.gov/resources/fact-sheets/complying-air-cleaner-regulation. If your question is not answered in the FAQ, or you have questions regarding this application, Executive Order, or testing and certification in the future, please contact Julia Gress at Julia.Gress@arb.ca.gov or (916) 324-9233. For any general questions, you may also contact me directly at Elizabeth.Scheehle@arb.ca.gov or at (916) 323-4519.

Sincerely,

Elizabeth Scheehle (Electronically Signed 3/10/2021)

Elizabeth Scheehle Chief, Research Division

Enclosure

cc: Randolph Nobles (by email)
Scientific Air Management LLC
randy.nobles@samairsystems.com

Julia Gress Research Division

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER G-21-088

Relating to Certification of Indoor Air Cleaning Devices

Scientific Air Management LLC

Brand: Scientific Air Management Model: 2017009911

WHEREAS, the California Air Resources Board (CARB) was given authority under California Health and Safety Code (HSC) sections 41985 and 41986 to develop and adopt regulations to protect public health from ozone emitted by indoor air cleaning devices used in occupied spaces;

WHEREAS, sections 41986(b)(2) and 41986(b)(3) of the HSC require CARB to include in its regulation testing and certification procedures that enable the Board to verify that an indoor air cleaning device meets the applicable emission concentration standard;

WHEREAS, CARB adopted sections 94800 through 94810, title 17, California Code of Regulations (CCR) on September 27, 2007 which include testing and certification requirements and specify the necessary information required in any application for certification;

WHEREAS, CARB has specified in CCR section 94805 that all indoor air cleaning devices, unless exempted, must be tested following ANSI/UL Standard 867, or ANSI/UL Standard 507 for mechanical filtration devices, to assure that the ozone emission concentration limit of 0.050 ppm and the electrical safety requirements have been met;

WHEREAS, Scientific Air Management LLC has submitted an application for certification of the following Scientific Air Management brand indoor air cleaning device: Model 2017009911;

WHEREAS, Scientific Air Management LLC has submitted the required documentation of testing results from a Nationally Recognized Testing Laboratory as required in CCR section 94804;

WHEREAS, the Scientific Air Management LLC application for certification of its air cleaning device has been evaluated, and its air cleaner has been found to comply with the criteria for issuance of an executive order;

NOW THEREFORE, pursuant to the authority vested in CARB by sections 39600 and 39601 of the HSC, and pursuant to the authority vested in the undersigned by sections 39515 and 39516 of the HSC;

IT IS ORDERED AND RESOLVED that the indoor air cleaner produced by Scientific Air Management LLC as described in its application for certification of said device is hereby certified as meeting the performance standards applicable to indoor air cleaning devices.

IT IS FURTHER ORDERED that Scientific Air Management LLC must comply with the additional requirements specified in title 17, CCR sections 94806 and 94808, regarding labeling and recordkeeping, respectively;

IT IS FURTHER ORDERED that any alteration of the components or design of the certified indoor air cleaning model is prohibited and is inconsistent with this certification, unless said alteration has been approved by the Executive Officer or his designee;

IT IS FURTHER ORDERED that pursuant to CCR section 94809, if the Executive Officer determines a violation has occurred, he or she may order that the product involved in or affected by the violation be recalled and replaced with a complying product. He or she may also assess penalties authorized by law, or revoke or modify this certification as provided in CCR section 94804(f).

Executed at Sacramento, California this 10th day of March 2021.

Elizabeth Scheehle (Electronically Signed 3/10/2021)

Elizabeth Scheehle Chief, Research Division

cc: Richard W. Corey Executive Officer