



2820 S. English Station Road - Louisville, KY 40299
Phone: (502) 357-0132

TEST NO. 22-253-1A

Test Report - Ozone Emissions - Low Flow Rate

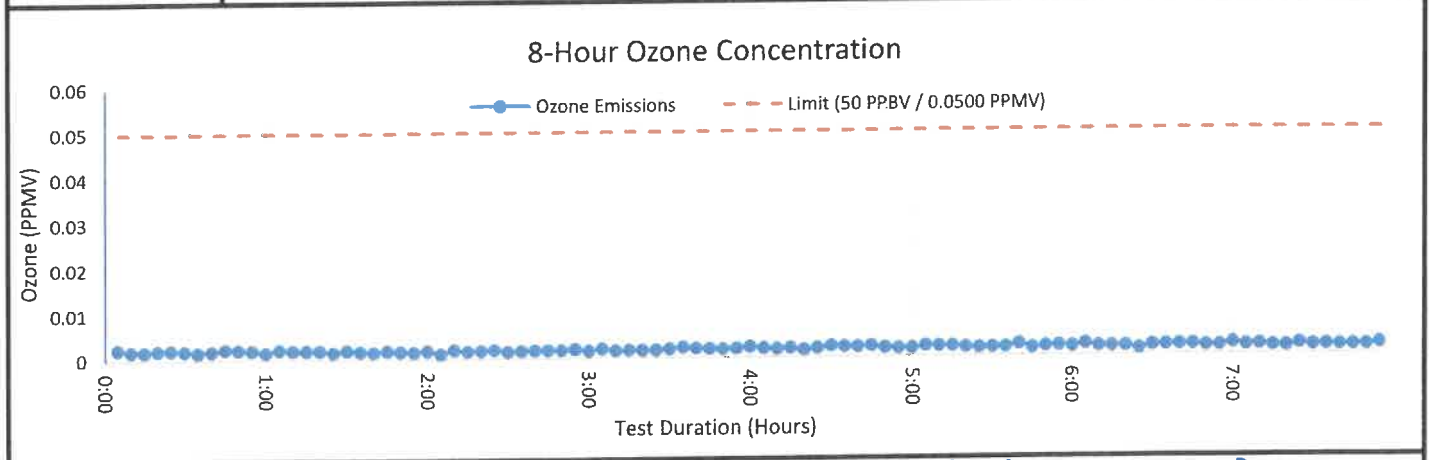
CSA Group - C22.2 No.187-20 - Section 7.5

Electrostatic In Duct Type Air Cleaners for Residential Use

page 1 of 2

Test Unit Description	Customer: AIRPHX	NOTES: Unit is in duct Air Cleaner intended for use in HVAC ductwork.
	Manufacturer: AIRPHX	Device has single setting and 115 VAC input power.
	Model No.: IN-DUCT UNT 2.0	Run in Start: 6/11/2022 19:00 Run in End: 6/11/2022 19:30
	Serial Number: NA	> 30 Minutes
Unit Modified for Zero Ozone		
The unit was tested at two flow rates. Low: 375 CFM and High: 2,000 CFM. This report details performance at low flow.		

8-Hour Ozone Emissions Test Results	Test Date: 6/11/2022 - 6/12/2022	Start Time: 6/11/2022 19:50	End Time: 6/12/2022 3:50	
	Average 8-Hr Background Concentration:	0.00050 PPM	Maximum Allowed	
	Average 8-Hr Downstream Concentration:	0.00240 PPM	PASS / FAIL	
	Average 8 Hour Time Weighted Average (TWA) Ozone Concentration:	0.002 PPM	0.050 PPM	PASS
	Maximum Ozone Reading over 8-Hour Testing:	0.002 PPM	0.050 PPM	PASS



	Model	Serial Number	Range
Upstream Ozone Analyzer:	2B Technologies Model: 205	2331DB	0.0000 - 0.1500 PPMV
Downstream Ozone Analyzer:	2B Technologies Model: 205	2332DB	0.0000 - 0.1500 PPMV
Temperature:	EE21-FT2B51-HC01/E01-T83	123501000187	-40 - 140 °F
Humidity:	EE21-FT2B51-HC01/E01-T83	123501000187	0 - 100% RH
Data Recorder:	Yokogawa DX230-1-2	12AA29144	30 Channel Recorder
Watt Transducer:	Ohio Semitronics, Inc. AGH-002E	20100694	0-1000 Watts

Test Conditions

Unit was tested in a complete ASHRAE 52.2 Test Duct. Flow Rate was maintained at 375 CFM over the 8-hour test period. Test unit installed entirely inside the 24" X 24" test duct and duct sealed to be leak-free. All unit emissions were contained inside the test duct. Unit installed in test duct with correct flow orientation.

Average Test Flow Rate: 378.64 CFM
Average Test Temperature: 71.97 Deg F Average Test Rel. Humidity: 50.89 %

Requester Information	Test Requestor: Terry Woodbridge	Phone: 888-420-0396
	Company Name: AIRPHX	Email: terry@airphx.com
Test Operator Information	Company Address: 158 Towerview Ct.; Cary, NC 27513	Date Requested: 5/31/2022
	Test Performed by: Glen Toloczko CAFS	Reviewed by: ES EIT Completion Date: 6/15/2022



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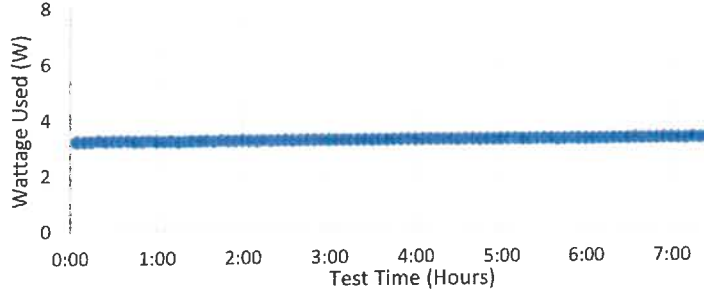
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Device Energy Usage

Average Input Wattage **3.245 W**

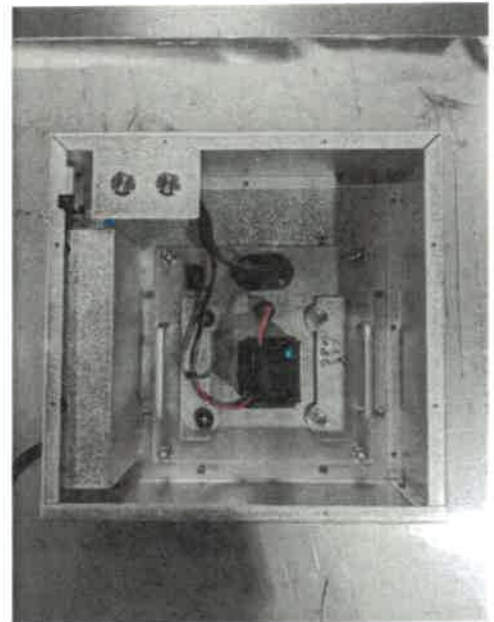
Input Voltage **115 VAC**

Unit has single setting.



Overall Unit View

Photos



Requester Information

Test Requestor: Terry Woodbridge

Company Name: AIRPHX

Company Address: 158 Towerview Ct., Cary, NC 27513

Phone: 888-420-0396

Email: terry@airphx.com

Date Requested: 5/31/2022

Test Operator Information

Test Performed by: Glen Toloczko CAFS

Completion Date: 6/15/2022



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TEST NO. 22-253-1B

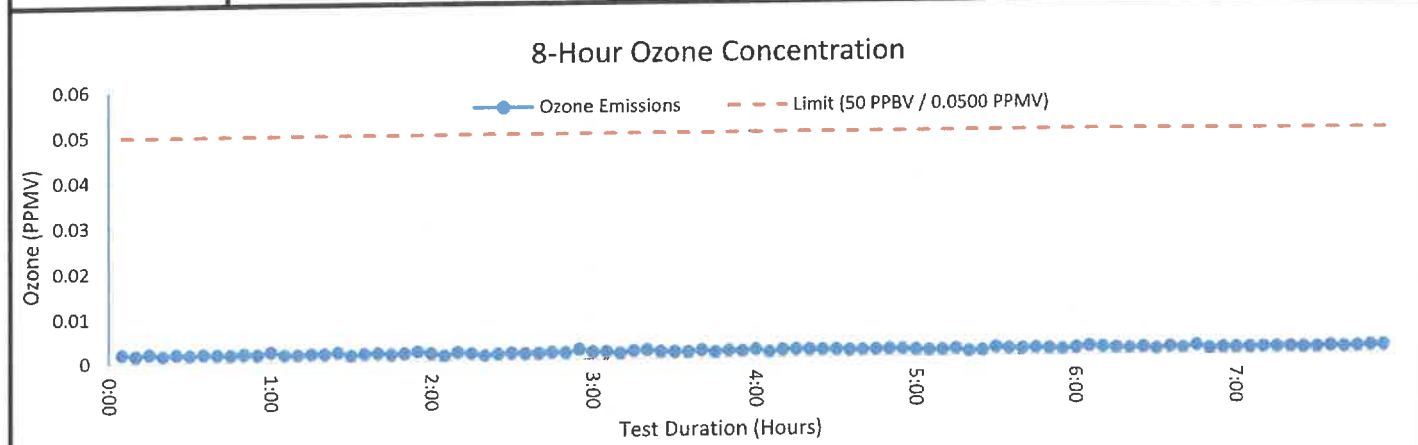
Test Report - Ozone Emissions - High Flow Rate

CSA Group - C22.2 No.187-20 - Section 7.5
Electrostatic In Duct Type Air Cleaners for Residential Use

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Test Unit Description	Customer: AIRPHX	NOTES: Unit is in duct Air Cleaner intended for use in HVAC ductwork.
	Manufacturer: AIRPHX	Device has single setting and 115 VAC input power.
	Model No.: IN-DUCT UNT 2.0	Run in Start: 6/11/2022 19:00 Run in End: 6/11/2022 19:30
	Serial Number: NA	> 30 Minutes
	Unit Modified for Zero Ozone	
<u>The unit was tested at two flow rates. Low: 375 CFM and High: 2,000 CFM. This report details performance at high flow.</u>		

8-Hour Ozone Emissions Test Results	Test Date: 6/12/2022 - 6/13/2022	Start Time: 6/12/2022 17:06	End Time: 6/13/2022 1:06
	Average 8-Hr Background Concentration:	0.00329 PPM	Maximum Allowed PASS / FAIL
	Average 8-Hr Downstream Concentration:	0.00484 PPM	
	Average 8 Hour Time Weighted Average (TWA) Ozone Concentration:	0.002 PPM	0.050 PPM PASS
	Maximum Ozone Reading over 8-Hour Testing:	0.002 PPM	0.050 PPM PASS



	Model	Serial Number	Range
Upstream Ozone Analyzer:	2B Technologies Model: 205	2331DB	0.0000 - 0.1500 PPMV
Downstream Ozone Analyzer:	2B Technologies Model: 205	2332DB	0.0000 - 0.1500 PPMV
Temperature:	EE21-FT2B51-HC01/E01-T83	123501000187	-40 - 140 °F
Humidity:	EE21-FT2B51-HC01/E01-T83	123501000187	0 - 100% RH
Data Recorder:	Yokogawa DX230-1-2	12AA29144	30 Channel Recorder
Watt Transducer:	Ohio Semitronics, Inc. AGH-002E	20100694	0-1000 Watts

Test Conditions	Unit was tested in a complete ASHRAE 52.2 Test Duct. Flow Rate was maintained at 2000 CFM over the 8-hour test period. Test unit installed entirely inside the 24" X 24" test duct and duct sealed to be leak-free. All unit emissions were contained inside the test duct. Unit installed in test duct with correct flow orientation.	
	Average Test Flow Rate:	2,006.71 CFM
	Average Test Temperature:	73.41 Deg F Average Test Rel. Humidity: 54.95 %

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	Company Name: AIRPHX	Email: terry@airphx.com
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	Test Performed by: Glen Toloczko CAFS Reviewed by: ES EIT	Completion Date: 6/15/2022



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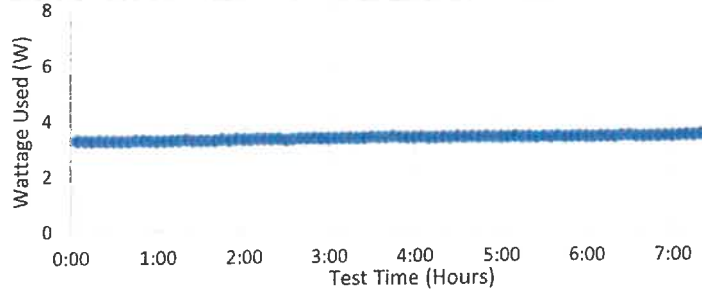
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Device Energy Usage

Average Input Wattage **3.309 W**

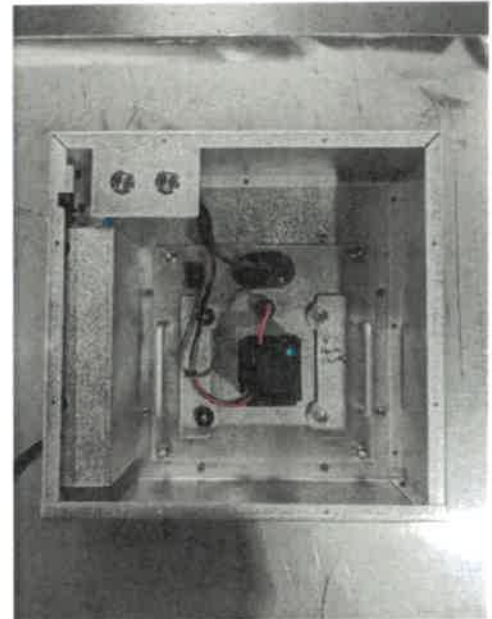
Input Voltage **115 VAC**

Unit has single setting.



Overall Unit View

Photos



Requester Information

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