

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

	Custo	omer: AIRPI	HX N	OTES: Unit is	in duct Air Clean	er intended for use in	n HVAC ductwork.
	Manufact					g and 115 VAC input	power.
Test Unit	Mode			Run in Start:	6/11/2022 19:	00 Run in End	d: 6/11/2022 19:3
	Serial Nur				> 30 Minutes	5	·
Description	1	Unit Modified fo	r Zero Ozone	6 .7			
	The u	init was tested at two	flow rates. Low: 3	375 CFM and I	High: 2,000 CFM.	This report details po	erformance at low flo
	3-22-2						
	Test	Date: 6/11/2022 - 6	5/12/2022	Start Time:	6/11/2022 19:	50 End Time	e: 6/12/2022 3:50
8-Hour Ozone	A	Average 8-Hr Backgrou verage 8-Hr Downstrea	nd Concentration	0.00050		Maximum Allowed	PASS / FAIL
Emissions Test		_		-			
		8 Hour Time Weig		0.002	PPM	0.050 PPM	PASS
Results	(TV	VA) Ozone Concen	tration:				
	Maximum	Ozone Reading over	8-Hour Testing:	0.002	PPM	0.050 PPM	PASS
		8-	Hour Ozone	Concentra	ation		
0.06					50 PP.BV / 0.0500 P	PM//	
0.05			zone Emissions	Linne (.			
0.05							
0.04							
0.03							
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0.02							
0.01				******	0000000000000	.0	
0.01		90000000000000000000000000000000000000			vi	••••••••••••••••••••••••••••••••••••••	**************************************
0.01		••••••••••••••••••••••••••••••••••••••	3:00	****************	5:00	6:00	7:00
0.01	1:00			4:00	5:00	6:00	7:00
0.01			9 Test Durati	4:00	5:00	6:00	7:00
0.02	1:00	2:00	Test Durati	ion (Hours)	Serial Num	siber	Range
0.02	11:00 Upstream	Ozone Analyzer: 2	Test Durati Model B Technologies M	ion (Hours)	Serial Num 2331DE	nber 3 0.00	Range 000 - 0.1500 PPMV
0.02	11:00 Upstream	Ozone Analyzer: 2 Ozone Analyzer: 2	Test Durati Model B Technologies M B Technologies M	6 (Hours) odel: 205 odel: 205	Serial Num 2331DE 2332DE	8 0.00 3 0.00	Range 000 - 0.1500 PPMV 000 - 0.1500 PPMV
0.02 0.01 0 00000000	11:00 Upstream	Ozone Analyzer: 2 Ozone Analyzer: 2 Temperature: E	Test Durati Model B Technologies M B Technologies M E21-FT2B51-HC01	del: 205 odel: 205 ./E01-T83	Serial Num 2331DE 2332DE 123501000	nber 3 0.00 3 0.01	Range 000 - 0.1500 PPMV
0.02	11:00 Upstream	Ozone Analyzer: 2 Ozone Analyzer: 2 Temperature: E Humidity: E	Test Durati Model B Technologies M B Technologies M E21-FT2B51-HC01 E21-FT2B51-HC01	dodel: 205 odel: 205 odel: 205 /E01-T83	Serial Num 2331DE 2332DE 123501000 123501000	8 0.00 8 0.00 1187	Range 000 - 0.1500 PPMV 000 - 0.1500 PPMV -40 - 140 °F
0.02 0.01 0 00000000	Upstream Downstream	Ozone Analyzer: 2 Ozone Analyzer: 2 Temperature: E Humidity: E Data Recorder:	Test Durati Model B Technologies M B Technologies M E21-FT2B51-HC01 E21-FT2B51-HC01 Yokogawa DX23	odel: 205 odel: 205 /E01-T83 /E01-T83 30-1-2	Serial Num 2331DE 2332DE 123501000 123501000 12AA291	8 0.00 8 0.00 1187 1187 44 30	Range 000 - 0.1500 PPMV 000 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH
0.02 0.01 0 00000000	Upstream Downstream	Ozone Analyzer: 2 Ozone Analyzer: 2 Temperature: E Humidity: E Data Recorder:	Test Durati Model B Technologies M B Technologies M E21-FT2B51-HC01 E21-FT2B51-HC01	odel: 205 odel: 205 /E01-T83 /E01-T83 30-1-2	Serial Num 2331DE 2332DE 123501000 123501000	8 0.00 8 0.00 1187 1187 44 30	Range 000 - 0.1500 PPMV 000 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder
est Equipment	Upstream Downstream	Ozone Analyzer: 2 Ozone Analyzer: 2 Temperature: E Humidity: E Data Recorder: Watt Transducer: Ohi	Test Durati Model B Technologies M. B Technologies M. E21-FT2B51-HC01 E21-FT2B51-HC01 Yokogawa DX23 o Semitronics, Inc	odel: 205 odel: 205 ./E01-T83 ./E01-T83 30-1-2	Serial Num 2331DE 2332DE 123501000 123501000 12AA291 2010065	iber 3 0.00 3 0.00 0187 0187 44 30	Range 000 - 0.1500 PPMV 000 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder 0-1000 Watts
est Equipment	Upstream Downstream	Ozone Analyzer: 2 Ozone Analyzer: 2 Temperature: E Humidity: E Data Recorder: Watt Transducer: Ohi	Test Durati Model B Technologies M. B Technologies M. E21-FT2B51-HC01 Yokogawa DX23 o Semitronics, Inc	odel: 205 odel: 205 odel: 205 ./E01-T83 ./E01-T83 30-1-2 :. AGH-002E	Serial Num 2331DE 2332DE 123501000 123501000 12AA291 2010069	10 187 194 30 30 30 30 30 30 30 30 30 30 30 30 30	Range 000 - 0.1500 PPMV 000 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder 0-1000 Watts
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Test Equipment Information	Upstream Downstream Unit v test p emiss Avera	Ozone Analyzer: 2 Ozone Analyzer: 2 Temperature: E Humidity: E Data Recorder: Watt Transducer: Ohi was tested in a comple period. Test unit instal sions were contained in age Test Flow Rate: age Test Temperature:	Test Durati Model B Technologies M B Technologies M E21-FT2B51-HC01 Yokogawa DX23 o Semitronics, Inc ete ASHRAE 52.2 T led entirely inside enside the test duc 378.64 CFM 71.97 Deg F : Terry Woodbridge	odel: 205 odel: 205 odel: 205 ./E01-T83 ./E01-T83 30-1-2 AGH-002E Test Duct. Flore the 24" X 24' t. Unit install	Serial Num 2331DE 2332DE 123501000 123501000 12AA291 2010069 w Rate was maint " test duct and dued in test duct wi	iber 3 0.00 3 0.00 187 19187 44 30 194 194 195 196 197 198 198 198 198 198 198 198 198 198 198	Range 000 - 0.1500 PPMV 000 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder 0-1000 Watts er the 8-hour free. All unit tation.
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Photos

TEST NO. 22-253-1A

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

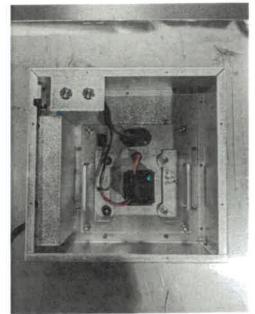
Electrostatic In Duct Type Air Cleaners for Residential Use

page 2 of 2

	Average Input 3.245 W Wattage	Osed (W)
Device Energy Usage	Input Voltage 115 VAC Unit has single setting.	attage O.S.
		0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00

Overall Unit View





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



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

page 1 of 2

	Custo		RPHX RPHX	NOTES: Unit is	in duct Air Cleane has single setting	er intended for use in g and 115 VAC input p	ower.
Test Unit Description	Manufact Mode Serial Nur	No.: IN-DUC	T UNT 2.0 NA d for Zero Ozone	Run in Start:	6/11/2022 19:0 > 30 Minutes High: 2,000 CFM.	Run in End: This report details pe	6/11/2022 19:30
	Test	Date: 6/12/2022	2 - 6/13/2022	Start Time:	6/12/2022 17:0	6 End Time:	6/13/2022 1:06
8-Hour Ozone	A	Average 8-Hr Backg verage 8-Hr Downs	round Concentration tream Concentration	n: 0.00329 I n: 0.00484 I		Maximum Allowed	PASS / FAIL
Results		verage 8 Hour Time Weighted Average (TWA) Ozone Concentration:		0.002 PPM		0.050 PPM	PASS
		Ozone Reading ov	er 8-Hour Testing:	0.002	PPM	0.050 PPM	PASS
			8-Hour Ozone	Concentra	ation		
0.06			Ozone Emissions	Limit (50 PPBV / 0.0500 PF	PMV)	
0.05							
€ 0.04							
2. 0.03							
υ 0.03							
-							
0.02							
0.01							
0.01						9:	
0.01	1:00	2:00	3:00	4:00	5:00	6:00	7:00
0.01			3:00			6:00	
0.01			e Test Dura	tion (Hours)	Serial Num	6: 00 ber	7:00 Range
0.01	1.00 Upstream	Ozone Analyzer:	ω Test Dura Model 2B Technologies N	tion (Hours)	Serial Num 2331DB	5. 0.000	Range 00 - 0.1500 PPMV
0.01	Upstream Downstream	Ozone Analyzer: _ Ozone Analyzer: _	Test Dura Model 2B Technologies M 2B Technologies M	tion (Hours) Model: 205 Model: 205	Serial Num 2331DB 2332DB	ber 0.000	Range 00 - 0.1500 PPMV 00 - 0.1500 PPMV
0.01 0 00000000	Upstream Downstream	Ozone Analyzer: _ Ozone Analyzer: _ Temperature: _	Test Dura Model 2B Technologies N 2B Technologies N EE21-FT2B51-HC0	# 6	Serial Num 2331DB	ber 0.000 0.000	Range 00 - 0.1500 PPMV
0.01	Upstream Downstream	Ozone Analyzer: _ Ozone Analyzer: _ Temperature: _ Humidity: _	Test Dura Model 2B Technologies M 2B Technologies M EE21-FT2B51-HC0 EE21-FT2B51-HC0	### ### ### ### ### ### ### ### ### ##	Serial Num 2331DB 2332DB 123501000	ber 0.000 0.000 187 187	Range 00 - 0.1500 PPMV 00 - 0.1500 PPMV -40 - 140 °F
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Test Equipment	Upstream Downstream	Ozone Analyzer: _ Ozone Analyzer: _ Temperature: _ Humidity: _ Data Recorder: _ Watt Transducer: _	Test Dura Model 2B Technologies M 2B Technologies M EE21-FT2B51-HC0 EE21-FT2B51-HC0 Yokogawa DX2 Ohio Semitronics, In	# display to the control of the cont	Serial Num 2331DB 2332DB 123501000 123501000 12AA291 2010069	ber 3 0.000 187 187 0 44 30 0 4 0	Range 00 - 0.1500 PPMV 00 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder 0-1000 Watts
0.01 0 00000000	Upstream Downstream	Ozone Analyzer: Ozone Analyzer: Temperature: Humidity: Data Recorder: Watt Transducer:	Test Dura Model 2B Technologies M 2B Technologies M EE21-FT2B51-HC0 Yokogawa DX2 Ohio Semitronics, In	# dion (Hours) Model: 205 Model: 205 1/E01-T83 1/E01-T83 230-1-2 1c. AGH-002E Test Duct. Flore the 24" X 24"	Serial Num 2331DB 2332DB 123501000 123501000 12AA291 2010069 w Rate was maint " test duct and du	ber 0.000 187 187 44 30 C 4 4 4 4 4 6 6 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Range 00 - 0.1500 PPMV 00 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder 0-1000 Watts er the 8-hour ee. All unit
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Test Equipment Information	Upstream Downstream Unit v test p emiss Avera	Ozone Analyzer: _ Ozone Analyzer: _ Ozone Analyzer: _ Humidity: _ Data Recorder: _ Watt Transducer: _ was tested in a comperiod. Test unit insigns were contained.	Test Dura Model 2B Technologies N 2B Technologies N EE21-FT2B51-HC0 Yokogawa DX2 Ohio Semitronics, In plete ASHRAE 52.2 stalled entirely insided inside the test du 2,006.71 CFM	tion (Hours) Model: 205 Model: 205 1/E01-T83 1230-1-2 10c. AGH-002E Test Duct. Flow te the 24" X 24" ct. Unit install	Serial Num 2331DB 2332DB 123501000 123501000 12AA291 2010069 w Rate was maint " test duct and du	ber 0.000 187 187 44 30 C 4 4 citated at 2000 CFM over sealed to be leak-fresh correct flow oriental	Range 00 - 0.1500 PPMV 00 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder 0-1000 Watts er the 8-hour ee. All unit
Test Equipment Information	Upstream Downstream Unit v test p emiss Avera	Ozone Analyzer: _ Ozone Analyzer: _ Ozone Analyzer: _ Humidity: _ Data Recorder: _ Watt Transducer: _ was tested in a comperiod. Test unit in the sions were contained age Test Flow Rate: _ age Test Temperature.	Test Dura Model 2B Technologies N 2B Technologies N EE21-FT2B51-HC0 Yokogawa DX2 Ohio Semitronics, In plete ASHRAE 52.2 stalled entirely insided inside the test du 2,006.71 CFM are: 73.41 Deg F	tion (Hours) Model: 205 Mode	Serial Num 2331DB 2332DB 123501000 123501000 12AA291 2010069 w Rate was maint " test duct and dued in test duct wi	ber 0.000 187 187 0 44 30 C 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Range 00 - 0.1500 PPMV 00 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder 0-1000 Watts er the 8-hour ee. All unit
Test Equipment Information Test Conditions	Upstream Downstream Unit v test p emiss Avera	Ozone Analyzer: Ozone Analyzer: Ozone Analyzer: Humidity: Data Recorder: Watt Transducer: was tested in a comperiod. Test unit in sions were contained age Test Flow Rate: Test Request	Test Dura Model 2B Technologies N 2B Technologies N EE21-FT2B51-HC0 Yokogawa DX2 Ohio Semitronics, In Inplete ASHRAE 52.2 stalled entirely insided inside the test du 2,006.71 CFM are: 73.41 Deg F	tion (Hours) Model: 205 Mode	Serial Num 2331DB 2332DB 123501000 123501000 12AA291 2010069 w Rate was maint " test duct and dued in test duct wi	ber 0.000 187 187 44 30 C 4 (ained at 2000 CFM over the correct flow orientate) 187 187 187 188 188 188 188 188 188 188	Range 00 - 0.1500 PPMV 00 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH Channel Recorder 0-1000 Watts er the 8-hour ee. All unit
Test Equipment Information	Upstream Downstream Unit v test p emiss Avera	Ozone Analyzer: Ozone Analyzer: Temperature: Humidity: Data Recorder: Watt Transducer: was tested in a comperiod. Test unit in sions were contained age Test Flow Rate: Test Request Company Na	Test Dura Model 2B Technologies N 2B Technologies N EE21-FT2B51-HC0 Yokogawa DX2 Ohio Semitronics, In plete ASHRAE 52.2 stalled entirely insided inside the test du 2,006.71 CFM are: 73.41 Deg F	tion (Hours) Model: 205 Mode	Serial Num 2331DE 2332DE 123501000 123501000 12AA291 2010069 w Rate was maint " test duct and du ed in test duct wir	ber 0.000 187 187 44 30 C 4 (ained at 2000 CFM over the correct flow orientate) 187 187 187 188 188 188 188 188 188 188	Range 00 - 0.1500 PPMV 00 - 0.1500 PPMV -40 - 140 °F 0 - 100% RH channel Recorder 0-1000 Watts er the 8-hour ee. All unit attion. 888-420-0396 cy@airphx.com 5/31/2022



Photos

TEST NO.

22-253-1B

Test Report - Ozone Emissions - High Flow Rate

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

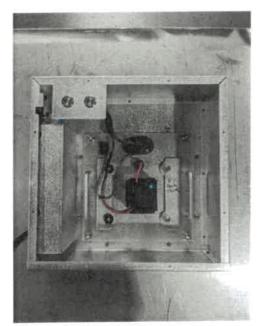
Electrostatic In Duct Type Air Cleaners for Residential Use

page 2 of 2

	Average Input 3.309 W Wattage	(M) pas
Device Energy Usage	Input Voltage 115 VAC Unit has single setting.	Wattage Us
		0 0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 Test Time (Hours)

Overall Unit View







 Test Requestor: Terry Woodbridge
 Phone: 888-420-0396

 Requester Information
 Company Name: AIRPHX Company Address: 158 Towerview Ct.; Cary, NC 27513
 Email: terry@airphx.com

 Test Operator Information
 Test Performed by: Glen Toloczko CAFS
 Completion Date: 6/15/2022