

**IBR JN: 20525A1**

Performed for: Aeris Cleantech AG

Date: 08 May 2020

Location: Unknown

Contact: Pierre Bi

**Test Method: Room Air Cleaner Performance per AHAM AC-1-2015 (Smoke)**

Temperature: 19.4 - 19.7 C

Relative Humidity: 36.8 - 38.1 %

Contaminant: Cigarette Smoke

Contaminant Source: Research Cigarettes - University of Kentucky, Code: 3R4F-12/2006

**Natural Decay-Smoke**

Room Status	Time (min)	Particles / 94cc at: (in microns)						Total
		0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5-0.7	0.7-1.0	
Room Background	1	3120	0	0	0	0	0	3120
	2	2940	0	0	0	0	0	2940
	3	3000	0	0	0	0	0	3000
	4	2280	0	0	0	0	0	2280
	5	2700	0	0	0	0	0	2700
	6	2520	0	0	0	0	0	2520
	7	1920	0	0	0	0	0	1920
	8	2760	0	0	0	0	0	2760
	9	2580	0	0	0	0	0	2580
	10	2580	0	0	0	0	0	2580
Natural Decay	1	1849860	590160	104460	38760	6180	240	2589660
	2	1767420	562860	90660	34800	6000	240	2461980
	3	1767300	562980	94740	34860	6600	180	2466660
	4	1754280	556260	103680	31680	6960	180	2453040
	5	1739460	556560	96000	31380	6300	360	2430060
	6	1686900	531600	90780	33900	6900	120	2350200
	7	1679820	528240	90300	30360	6300	300	2335320
	8	1684680	523140	91620	31260	6540	180	2337420
	9	1656540	526980	93180	29940	6240	120	2313000
	10	1651920	528960	89640	29700	5280	240	2305740
11	1660200	515880	90180	28320	5220	120	2299920	
12	1646100	515880	94260	30720	6060	420	2293440	
13	1632300	519720	91500	29640	4620	180	2277960	
14	1622280	510360	90480	30000	5640	60	2258820	
15	1532760	489900	83520	29820	5580	420	2142000	
16	1533900	483480	84540	28860	6120	0	2136900	
17	1494720	478920	79860	30600	5100	240	2089440	
18	1459500	470940	81780	29100	6060	480	2047860	
19	1441680	469200	83100	26520	4800	180	2025480	
20	1456500	462780	84000	26940	4200	180	2034600	

 Natural Decay Rate: -0.01182 1/min<sup>-1</sup>

 Standard Deviation: 0.0007 1/min<sup>-1</sup>

Coefficient of Determination: 0.9443

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

Performed By: MP

Data Location: MP237

**IBR JN: 20525A1**

Performed for: Aeris Cleantech AG

Location: Unknown

Date: 08 May 2020

Contact: Pierre Bi

**Description of Cleaner: Aeris Aair Lite Air Purifier**
**Description of Filter: Radial-pleat pre-motor, radial-pleat post-motor**

S/N: US2019000419

Pre-motor Filter ID: 20525-1-2

IBR Cleaner ID: 20525-1

Post-motor Filter ID: 20525-1-1

Power: 120 VAC / 60 Hz

Fan Speed: High (5)

Date Samples Received: 17 Feb 20

Sample Source: AAA Trans World Express Jamaica, NY

Contaminant: Cigarette Smoke

Contaminant Source: Research Cigarettes - University of Kentucky, Code: 3R4F-12/2006

	Before Test	After Test
Relative Humidity (%)	39.3	38.7
Temperature (°C)	19.7	19.5

Purifier Status	Time (min)	Particles / 94cc at: (in microns)						Total
		0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5-0.7	0.7-1.0	
Off	1	2940	60	0	0	0	0	3000
	2	2520	0	0	0	0	0	2520
	3	2160	0	0	0	0	0	2160
	4	2280	0	0	0	0	0	2280
	5	2520	0	0	0	0	0	2520
	6	2400	0	0	0	0	0	2400
	7	2520	0	0	0	0	0	2520
	8	2760	0	0	0	0	0	2760
	9	2520	0	0	0	0	60	2580
	10	2400	0	0	0	0	0	2400
On	1	2068680	531120	90540	25020	2640	60	2718060
	2	1677240	426120	64620	18780	1800	60	2188620
	3	1427520	350460	56700	16920	2280	60	1853940
	4	1062180	257580	37860	12360	1320	0	1371300
	5	819060	196800	30420	8580	660	0	1055520
	6	726720	173280	25020	6300	960	0	932280
	7	559260	134220	20340	6120	780	0	720720
	8	444300	106320	14580	4920	600	0	570720
	9	349260	73800	10980	3060	420	0	437520
	10	297240	58500	9060	3360	420	60	368640
	11	217560	45780	4380	1740	120	0	269580
	12	191040	39240	4440	1500	180	0	236400
	13	160140	31560	3900	780	300	0	196680
	14	132720	24000	4320	1080	60	0	162180
	15	124320	20940	2280	300	180	0	148020
	16	102600	15900	2340	360	180	0	121380
	17	99180	11940	2220	60	60	0	113460
	18	94440	11820	960	180	60	0	107460
	19	92280	10260	1080	360	0	60	104040
20	83880	8580	1380	360	0	0	94200	

 Operational Decay Rate: -0.18743 1/min<sup>-1</sup>  
 Standard Deviation: 0.0069 1/min<sup>-1</sup>  
 Coefficient of Determination: 0.9791

**CADR: 167.2 Cubic feet / min**  
**CADR: 284.0 Cubic meters / hr**  
**Suggested room size: 259.1 sqft**  
**24.1 sqm**

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Performed By: MP

Data Location: MP237

**IBR JN: 20525A1**

Performed for: Aeris Cleantech AG

Date: 08 May 2020

Location: Unknown

Contact: Pierre Bi

**Description of Cleaner: Aeris Air Lite Air Purifier**
**Description of Filter: Radial-pleat pre-motor, radial-pleat post-motor**

S/N: US2019000426

Pre-motor Filter ID: 20525-2-2

IBR Cleaner ID: 20525-2

Post-motor Filter ID: 20525-2-1

Power: 120 VAC / 60 Hz

Fan Speed: High (5)

Date Samples Received: 17 Feb 20

Sample Source: AAA Trans World Express Jamaica, NY

Contaminant: Cigarette Smoke

Contaminant Source: Research Cigarettes - University of Kentucky, Code: 3R4F-12/2006

	Before Test	After Test
Relative Humidity (%)	40.1	40.2
Temperature (°C)	19.2	19.6

Purifier Status	Time (min)	Particles / 94cc at: (in microns)						Total
		0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5-0.7	0.7-1.0	
Off	1	2760	120	0	0	0	0	2880
	2	2520	120	0	0	0	0	2640
	3	2400	120	0	0	0	0	2520
	4	2640	60	0	0	0	0	2700
	5	2400	60	0	0	0	0	2460
	6	2280	60	0	0	0	0	2340
	7	2340	60	0	60	0	0	2460
	8	2580	60	0	0	0	0	2640
	9	2700	60	0	0	0	0	2760
	10	2100	420	60	60	0	0	2640
On	1	1861380	525540	92940	37380	5100	120	2522460
	2	1562940	424740	81900	24180	3420	120	2097300
	3	1183320	313980	57540	18540	2880	0	1576260
	4	952260	253620	44700	17040	2280	60	1269960
	5	765180	190920	34320	12240	1680	0	1004340
	6	636000	167160	29880	8460	1860	0	843360
	7	521220	134880	24420	6840	720	60	688140
	8	438360	113280	18660	6420	1080	0	577800
	9	344460	84900	13560	5100	1020	0	449040
	10	271140	68340	12180	3120	540	0	355320
11	224520	53640	8580	2520	600	0	289860	
12	186420	44520	7320	2580	240	0	241080	
13	164580	39960	5880	2100	420	0	212940	
14	145980	35700	4560	1620	420	0	188280	
15	126120	28380	4920	1020	360	0	160800	
16	113580	25260	4380	1440	300	60	145020	
17	98580	21960	4080	840	240	60	125760	
18	83100	17820	3360	540	60	0	104880	
19	72060	13980	3120	660	120	0	89940	
20	66960	13740	1920	360	120	0	83100	

 Operational Decay Rate: -0.18178 1/min<sup>-1</sup>  
 Standard Deviation: 0.0042  
 Coefficient of Determination: 0.9921 1/min<sup>-1</sup>
**CADR: 173.7 Cubic feet / min**  
**CADR: 295.2 Cubic meters / hr**  
**Suggested room size: 269.3 sqft**  
**25.0 sqm**
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**IBR JN: 20525A1**

Performed for: Aeris Cleantech AG

Date: 11 May 2020

Location: Unknown

Contact: Pierre Bi

**Test Method: Room Air Cleaner Performance per AHAM AC-1-2015 (Smoke)**

Temperature: 19.4 - 19.7 C

Relative Humidity: 36.8 - 38.1 %

Contaminant: Cigarette Smoke

Contaminant Source: Research Cigarettes - University of Kentucky, Code: 3R4F-12/2006

**Natural Decay-Smoke**

Room Status	Time (min)	Particles / 94cc at: (in microns)						Total
		0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5-0.7	0.7-1.0	
Room Background	1	3120	0	0	0	0	0	3120
	2	2940	0	0	0	0	0	2940
	3	3000	0	0	0	0	0	3000
	4	2280	0	0	0	0	0	2280
	5	2700	0	0	0	0	0	2700
	6	2520	0	0	0	0	0	2520
	7	1920	0	0	0	0	0	1920
	8	2760	0	0	0	0	0	2760
	9	2580	0	0	0	0	0	2580
	10	2580	0	0	0	0	0	2580
Natural Decay	1	1849860	590160	104460	38760	6180	240	2589660
	2	1767420	562860	90660	34800	6000	240	2461980
	3	1767300	562980	94740	34860	6600	180	2466660
	4	1754280	556260	103680	31680	6960	180	2453040
	5	1739460	556560	96000	31380	6300	360	2430060
	6	1686900	531600	90780	33900	6900	120	2350200
	7	1679820	528240	90300	30360	6300	300	2335320
	8	1684680	523140	91620	31260	6540	180	2337420
	9	1656540	526980	93180	29940	6240	120	2313000
	10	1651920	528960	89640	29700	5280	240	2305740
11	1660200	515880	90180	28320	5220	120	2299920	
12	1646100	515880	94260	30720	6060	420	2293440	
13	1632300	519720	91500	29640	4620	180	2277960	
14	1622280	510360	90480	30000	5640	60	2258820	
15	1532760	489900	83520	29820	5580	420	2142000	
16	1533900	483480	84540	28860	6120	0	2136900	
17	1494720	478920	79860	30600	5100	240	2089440	
18	1459500	470940	81780	29100	6060	480	2047860	
19	1441680	469200	83100	26520	4800	180	2025480	
20	1456500	462780	84000	26940	4200	180	2034600	

 Natural Decay Rate: -0.01095 1/min<sup>-1</sup>

 Standard Deviation: 0.0004 1/min<sup>-1</sup>

Coefficient of Determination: 0.9750

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Performed By: MP

Data Location: MP237

**IBR JN: 20525A1**

Performed for: Aeris Cleantech AG

Location: Unknown

Date: 11 May 2020

Contact: Pierre Bi

**Description of Cleaner: Aeris Air Lite Air Purifier**
**Description of Filter: Radial-pleat pre-motor, radial-pleat post-motor**

S/N: US2019000456

Pre-motor Filter ID: 20525-3-2

IBR Cleaner ID: 20525-3

Post-motor Filter ID: 20525-3-1

Power: 120 VAC / 60 Hz

Fan Speed: High (5)

Date Samples Received: 17 Feb 20

Sample Source: AAA Trans World Express Jamaica, NY

Contaminant: Cigarette Smoke

Contaminant Source: Research Cigarettes - University of Kentucky, Code: 3R4F-12/2006

	Before Test	After Test
Relative Humidity (%)	38.9	38.7
Temperature (°C)	20.7	20.9

Purifier Status	Time mins	Particles / 94cc at: (in microns)						Total
		0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5-0.7	0.7-1.0	
Off	1	2220	420	60	0	0	0	2,700
	2	2160	420	60	0	0	0	2,640
	3	2280	240	60	60	0	0	2,640
	4	2460	240	60	0	0	0	2,760
	5	2700	240	0	0	0	0	2,940
	6	2880	180	60	0	0	0	3,120
	7	2700	180	60	0	0	0	2,940
	8	2340	120	0	0	0	0	2,460
	9	2520	120	0	0	0	0	2,640
	10	2280	60	0	0	0	0	2,340
On	1	2096700	583380	107700	37320	4740	180	1,375,320
	2	1630740	440100	78840	26340	4500	300	3,385,440
	3	1332960	357840	63420	20280	3120	60	5,514,660
	4	991500	257400	46320	14880	2100	0	4,646,580
	5	825540	210180	38700	12360	1380	120	3,656,760
	6	654660	167520	30000	9060	1440	300	2,830,020
	7	558780	143880	24840	7980	1320	120	2,180,820
	8	482100	121320	22020	6180	540	60	1,777,680
	9	403320	99240	18240	6420	1020	60	1,312,200
	10	343200	84180	13860	4140	600	60	1,088,280
11	262980	67860	12600	3960	720	0	862,980	
12	242940	56820	9780	3900	540	60	736,920	
13	193800	46620	8160	2460	720	0	632,220	
14	179640	43440	7440	2640	900	60	528,300	
15	134340	32700	4440	1800	240	0	446,040	
16	126480	31320	4560	2580	600	0	348,120	
17	112920	25560	4800	2160	420	60	314,040	
18	107940	25080	4200	2280	120	60	251,760	
19	94860	22500	3360	1800	540	60	234,120	
20	79020	19740	3180	1380	600	0	173,520	

 Operational Decay Rate: -0.17162 1/min<sup>-1</sup>

Standard Deviation: 0.0049

 Coefficient of Determination: 0.9862 1/min<sup>-1</sup>
**CADR: 163.8 Cubic feet / min**
**CADR: 278.2 Cubic meters / hr**
**Suggested room size: 253.8 sqft  
23.6 sqm**
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**IBR JN: 20525A1**

Date: 08-11 May 2020

Performed for: Aeris Cleantech AG

Location: Unknown

Contact: Pierre Bi



IBR ID	Manufacturer	Model No.	Serial No.	Range	Cal. Due
AME-32	Visicomm Industries	2KSS6050/5060	7252	110/220VAC 50/60Hz	Set w/ Use
RH-210	Omega	OM-DVTH	421-0419-0059	10-90%/10-50C	10-Jan-2021
BAL-07	Mettler Toledo	AE50	N/A	0.5-50g	3-Dec-2020
AME-63	Accusplit	Pro Survivor 601X	none	0.1 sec- 24 hr	11-Jul-2022
AME-40	Yokogawa	WT210	91L220956	600VAC/20A/50-60Hz	28-Dec-2021
N/A	Lasair	1001	32750-1094-221	0.1-2.0 µm	29-Jun-2020

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Performed By: MP

Data Location: MP237

Reviewed by:

Daniel R. Miller, Air Labs Manager

Revision	Editorial / Technical	Description	Approved By	Release Date
		Initial Release	DRM	5/17/2020