

ASHRAE 52.2-2017 Test Results w/Appendix J Results

Filter Description							
Manufacturer		Filter Model			Filter Part Number		
Camfil USA		DU6-2424-MV14			855086-021		
Filter Type		Media Type		Media Color	Media Area (ft ²)		
V-bed		Fiberglass/Wet Laid		White	118		
Nominal Size	Actual Size						
HxWxD	Hgt (in)	Wid (in)	Dep (in)	Pleats/Pockets	UL Rating		
24"x24"x6"	23 3/8	23 3/8	5 7/8	4	Yes		
ASHRAE 52.2-2017				ASHRAE 52.2-2017 w/App J			
Test Report:		200714_1938		Test Report:		200721_1944	
Time:	11:10:59	Date:	Jul 14, 2020	Time:	2:13:03	Date:	Jul 21, 2020
Test Data		Test Results	Rated Values	Test Data		Test Results	Rated Values
AirFlow (cfm)		1993	2000	AirFlow (cfm)		2001	2000
Nominal Vel (fpm)		498	500	Nominal Vel (fpm)		500	500
Initial ΔP (inWG)		0.50	0.50	Initial ΔP (inWG)		0.50	0.50
MERV		14	14 @1993cfm	MERV-A		14A	14A @2001cfm
E ₁ (0.3-1.0μm), (%)		79	≥ 75	E ₁ -A (0.3-1.0μm), (%)		79	≥ 75
E ₂ (1.0-3.0μm), (%)		97	≥ 90	E ₂ -A (1.0-3.0μm), (%)		97	≥ 90
E ₃ (3.0-10μm), (%)		100	≥ 95	E ₃ -A (3.0-10μm), (%)		100	≥ 95
Final DP, (inWG)		1.5	1.5	Final DP, (inWG)		1.5	1.5
Arrestance, (%)		100	95	Arrestance-A, (%)		100	95
DHC, (g)		269		DHC-A, (g)		263	
Temp, (F)	76	Test Aerosol	KCL	Temp, (F)	75	Test Aerosol	KCL
RH, (%)	48	Loading Dust	ASHRAE	RH, (%)	49	Loading Dust	ASHRAE
 							
Certified Test Per ASHRAE 52.2-2017				Operator		Particle Counter	Model
Approval:	Don Thornburg, R&D Manager Electronic Signature, Original on file			AA		TSI	OPS-3330

ASHRAE® 52.2-2017 Test Results

Date:	Jul 14, 2020	Test Report:	200714_1938
Manufacturer	Filter Model	Filter Part Number	
Camfil USA	DU6-2424-MV14	855086-021	

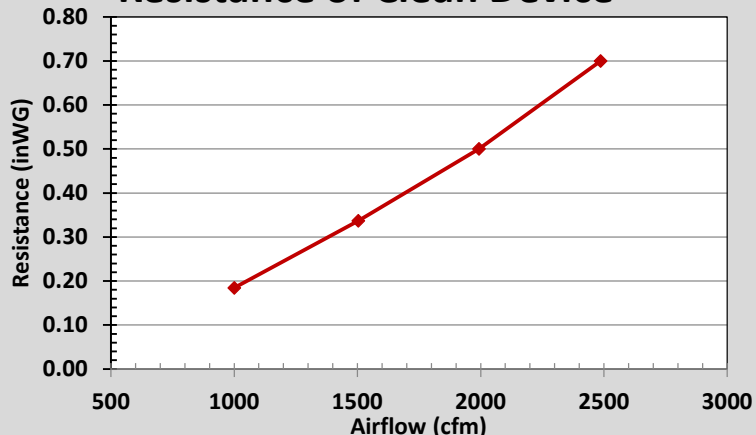
Clean Resistance Table

cfm	m ³ /s	inWG	Pa
1000	0.47	0.184456	46
1504	0.71	0.336763	84
1993	0.94	0.49992	124
2486	1.17	0.699647	174

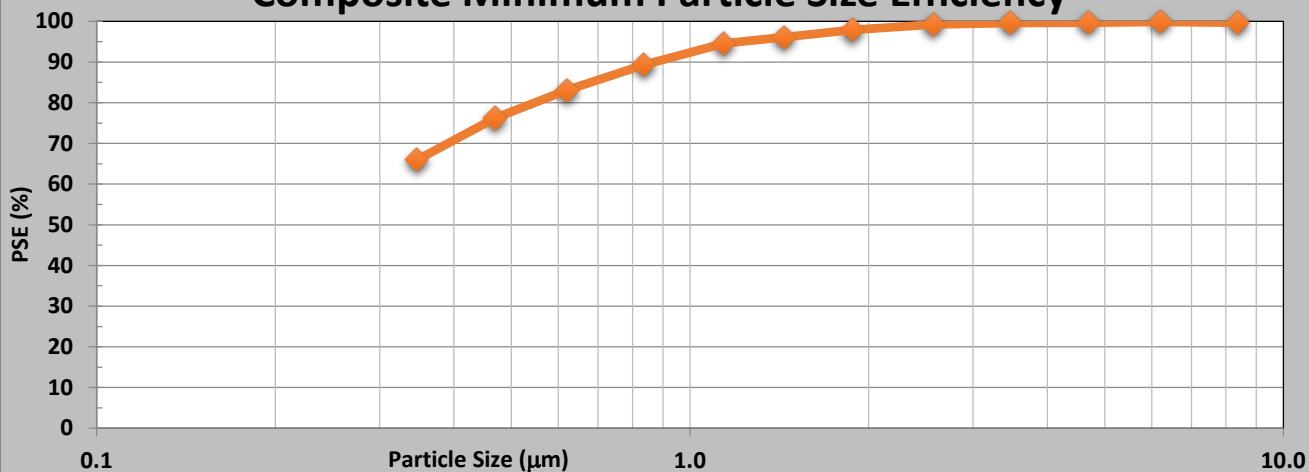
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248.8454

Resistance of Clean Device

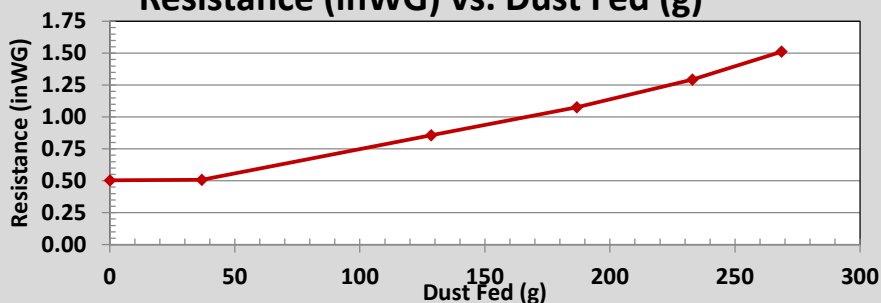


Composite Minimum Particle Size Efficiency



ΔP (inWG)	Dust Fed (g)
0.50	0
0.51	37
0.86	128
1.08	187
1.29	233
1.51	269

Resistance (inWG) vs. Dust Fed (g)

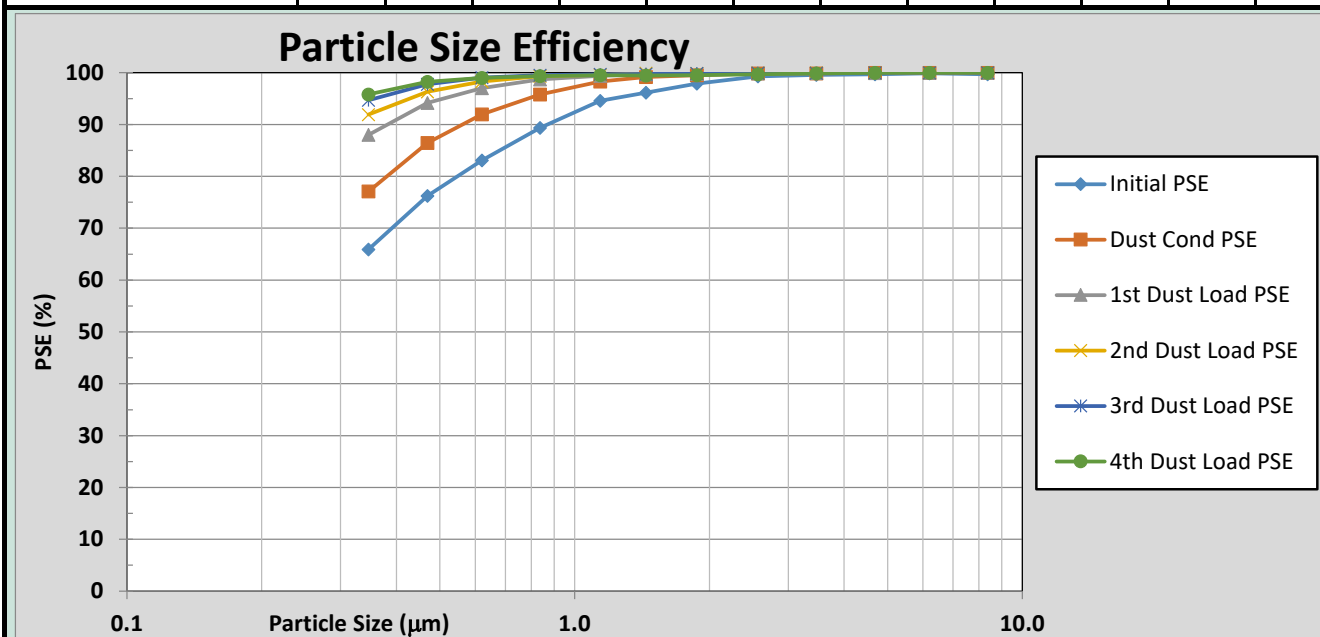




Camfil USA
1 North Corporate Drive
Riverdale, NJ 07457
(973) 616-7300

ASHRAE® 52.2-2017 Test Results

Date:	Jul 14, 2020			Test Report:		200714_1938						
Manufacturer				Filter Model					Filter Part Number			
Camfil USA				DU6-2424-MV14					855086-021			
Efficiency Data Table												
	1	2	3	4	5	6	7	8	9	10	11	12
Minimum Dia (µm)	0.3	0.4	0.55	0.7	1.0	1.3	1.6	2.2	3.0	4.0	5.5	7.0
Maximum Dia (µm)	0.4	0.55	0.7	1.0	1.3	1.6	2.2	3.0	4.0	5.5	7.0	10.0
Geometric Mean (µm)	0.35	0.47	0.62	0.84	1.14	1.44	1.88	2.57	3.46	4.69	6.20	8.37
Initial PSE	66	76	83	89	95	96	98	99	100	100	100	100
Dust Cond PSE	77	86	92	96	98	99	100	100	100	100	100	100
1st Dust Load PSE	88	94	97	99	99	100	100	100	100	100	100	100
2nd Dust Load PSE	92	96	98	99	100	100	100	100	100	100	100	100
3rd Dust Load PSE	95	98	99	100	100	100	100	100	100	100	100	100
4th Dust Load PSE	96	98	99	99	100	99	100	100	100	100	100	100
Composite Min PSE	66	76	83	89	95	96	98	99	100	100	100	100



All testing is performed in compliance with the latest revision of ASHRAE Standard 52.2 in a state-of-the-art laboratory facility located at the Camfil USA headquarters in Riverdale, NJ. Test Reports without DHC values show efficiency only and the associated MERV value is a estimated value based on the single efficiency data shown. For more information, contact your local Camfil representative or distributor.

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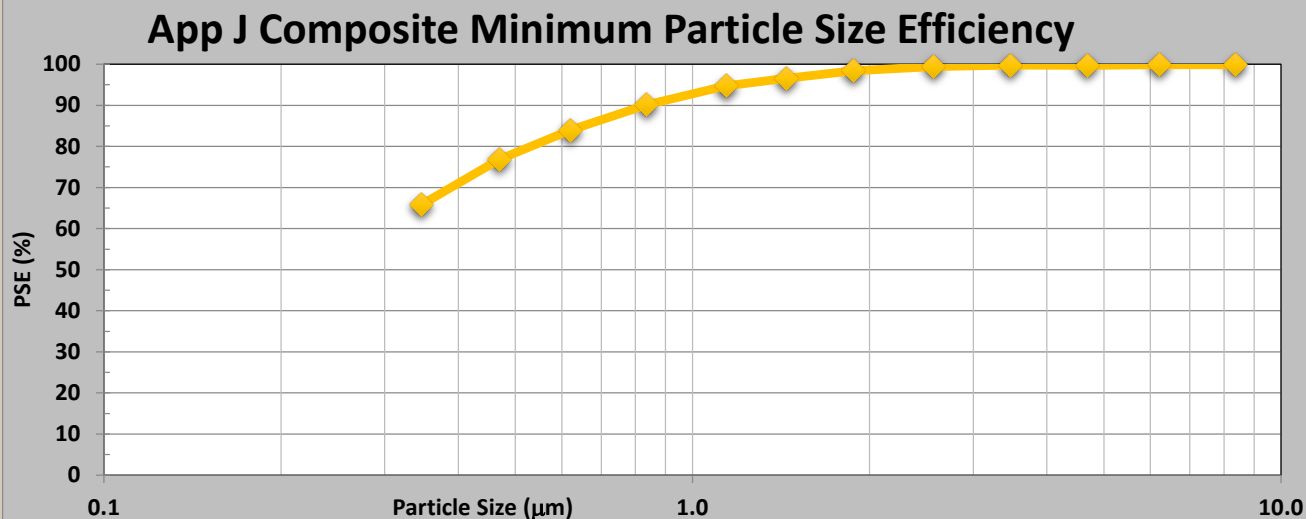
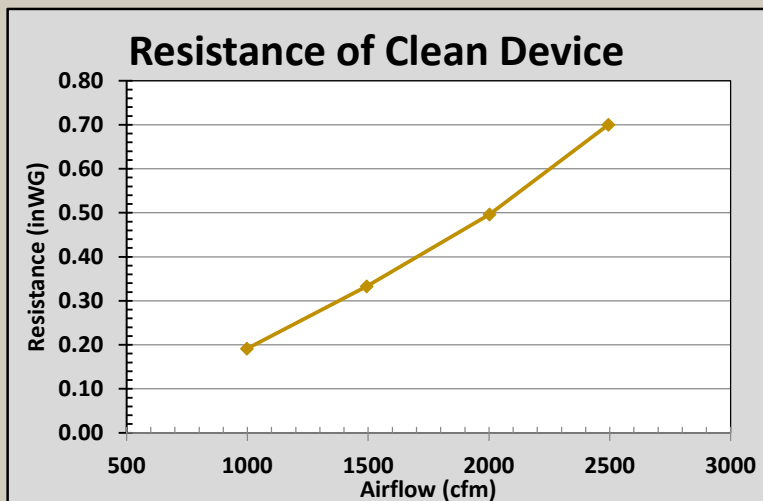


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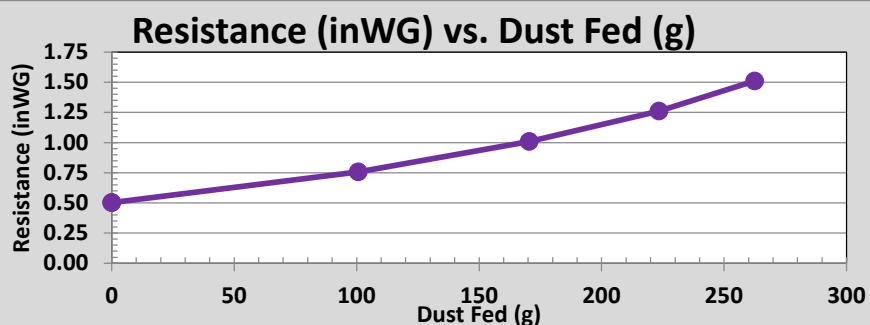
ASHRAE® 52.2-2017 Test Results w/ Appendix J Results

Date:	07/21/2020	Test Number:	200721_1944
Manufacturer	Filter Model	Filter Part Number	
Camfil USA	DU6-2424-MV14	855086-021	

Clean Resistance Table			
cfm	m ³ /s	inWG	Pa
997	0.47	0.190886	48
1493	0.70	0.332744	83
2001	0.94	0.496303	124
2494	1.18	0.700049	174



ΔP (inWG)	Dust Fed (g)
0.50	0
0.50	0
0.76	101
1.01	170
1.26	223
1.51	263



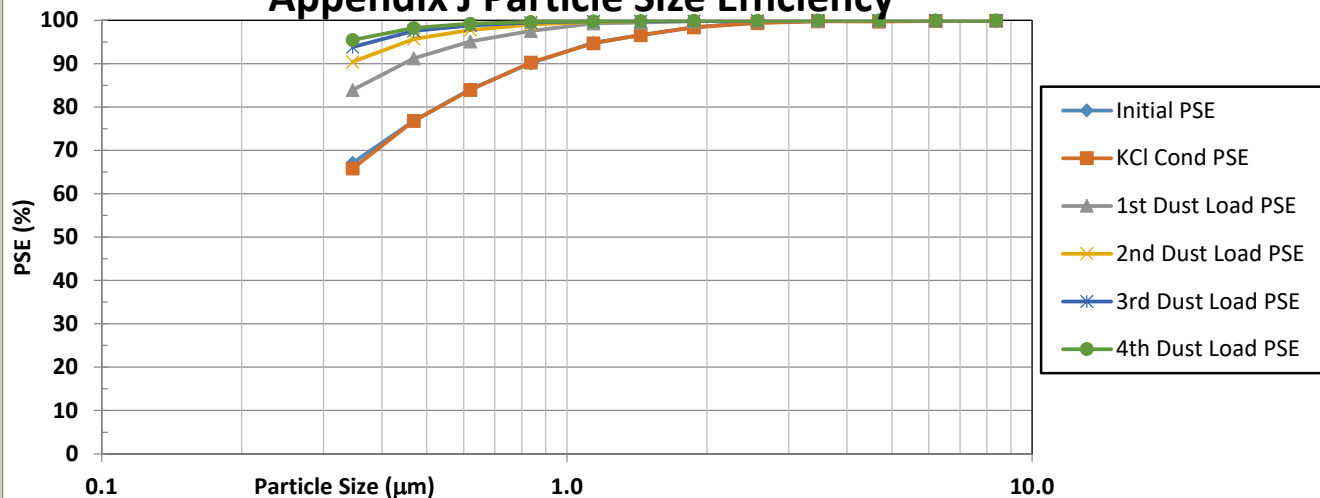


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Date:	07/21/2020			Test Number:			200721_1944						
Manufacturer				Filter Model						Filter Part Number			
Camfil USA				DU6-2424-MV14						855086-021			
App J Efficiency Data Table													
	1	2	3	4	5	6	7	8	9	10	11	12	
	Minimum Dia (µm)	0.3	0.4	0.55	0.7	1.0	1.3	1.6	2.2	3.0	4.0	5.5	7.0
	Maximum Dia (µm)	0.4	0.55	0.7	1.0	1.3	1.6	2.2	3.0	4.0	5.5	7.0	10.0
	Geometric Mean (µm)	0.35	0.47	0.62	0.84	1.14	1.44	1.88	2.57	3.46	4.69	6.20	8.37
	Initial PSE	67	77	84	90	95	97	98	100	100	100	100	100
	KCl Cond PSE	66	77	84	90	95	97	98	99	100	100	100	100
	1st Dust Load PSE	84	91	95	98	99	99	100	100	100	100	100	100
	2nd Dust Load PSE	90	96	98	99	100	100	100	100	100	100	100	100
	3rd Dust Load PSE	94	98	99	100	100	100	100	100	100	100	100	100
4th Dust Load PSE	95	98	99	100	100	100	100	100	100	100	100	100	
Composite Min PSE	66	77	84	90	95	97	98	99	100	100	100	100	

Appendix J Particle Size Efficiency



Bkg Concentration (particles/cm ³)	Avg Cond Aerosol Conc (particles/cm ³)	Cumulative Cond Duration (minutes)	Cumulative Cond CT (particles-min/cm ³)	
1.5	4.24E+05	243	1.03E+08	
Large Particle Concentration (Particles/cm ³)	Ratio Small to Large (>20,000)	Conditioning ΔP (inWG)		Same duct?
21	20,190	Initial ΔP	Final ΔP	No
		0.50	0.50	



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Date:	07/21/2020			Test Number:			200721_1944						
Manufacturer				Filter Model						Filter Part Number			
Camfil USA				DU6-2424-MV14						855086-021			
KCI Conditioning Data Table													
	1	2	3	4	5	6	7	8	9	10	11	12	
	Minimum Dia (µm)	0.3	0.4	0.55	0.7	1.0	1.3	1.6	2.2	3.0	4.0	5.5	7.0
	Maximum Dia (µm)	0.4	0.55	0.7	1.0	1.3	1.6	2.2	3.0	4.0	5.5	7.0	10.0
	Geometric Mean (µm)	0.35	0.47	0.62	0.84	1.14	1.44	1.88	2.57	3.46	4.69	6.20	8.37
	Initial PSE	67	77	84	90	95	97	98	100	100	100	100	100
	1st KCI Cond PSE	66	77	84	91	95	97	98	100	100	100	100	100
	2nd KCI Cond PSE												
	3rd KCI Cond PSE												
	4th KCI Cond PSE												
5th KCI Cond PSE													
Final KCI Cond PSE	66	77	84	91	95	97	98	100	100	100	100	100	

KCI Conditioning Particle Size Efficiency

