



ASHRAE 52.2-2017 Test Results w/Appendix J Results

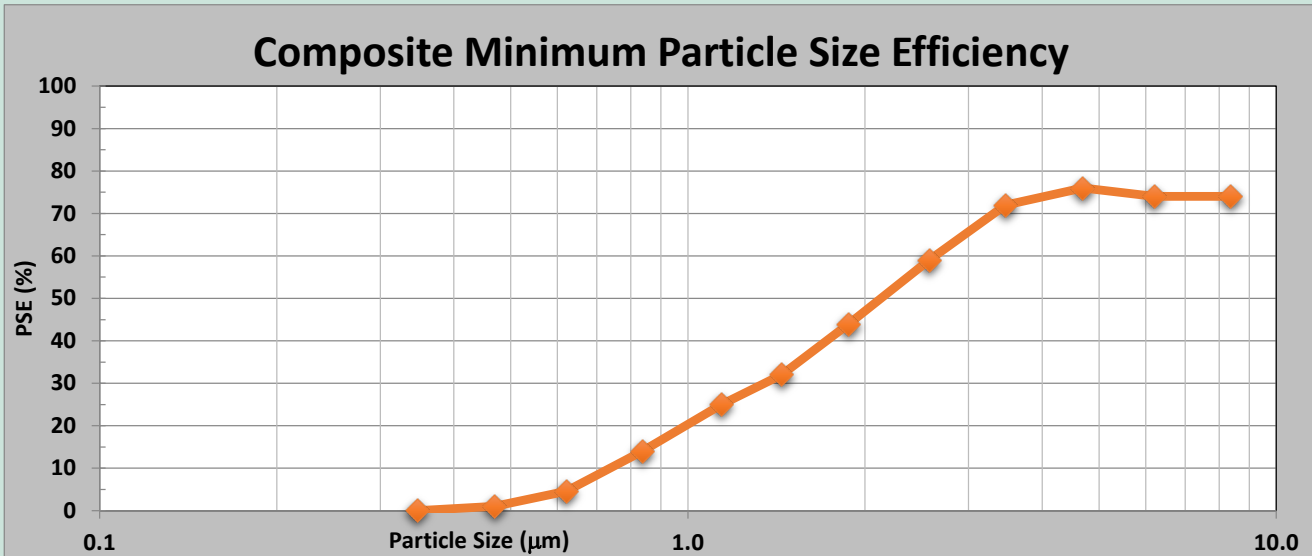
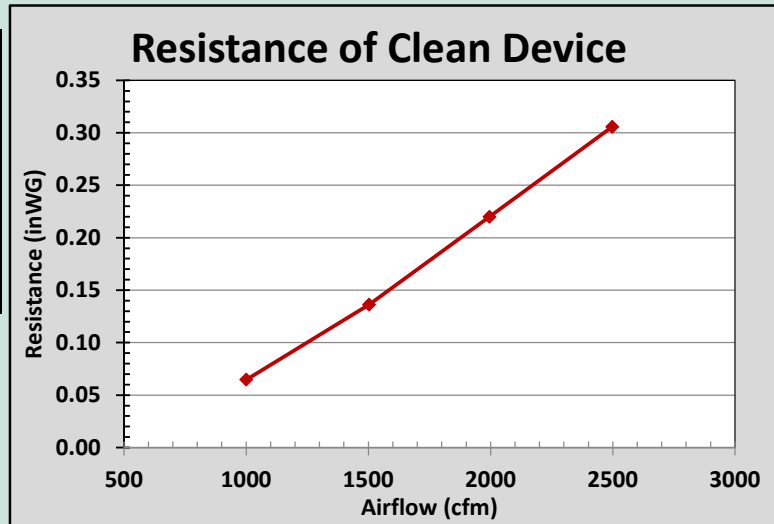
Filter Description									
Manufacturer			Filter Model				Filter Part Number		
Camfil USA			Aeropleat III M8 2in				116300-005		
Filter Type			Media Type			Media Color		Media Area (ft ²)	
Pleated-Panel			Synthetic-charged			Blue		11.4	
Nominal Size		Actual Size							
HxWxD		Hgt (in)	Wid (in)	Dep (in)	Pleats/Pockets		UL Rating		
24"x24"x2"		23 3/8	23 3/8	1 3/4	19		Yes		
ASHRAE 52.2-2017					ASHRAE 52.2-2017 w/App J				
Test Report:		170919_1867			Test Report:		200616_1867		
Time:	10:25:10	Date:	Sep 19, 2017		Time:	8:50:07	Date:	Jun 16, 2020	
Test Data		Test Results	Rated Values		Test Data		Test Results	Rated Values	
AirFlow (cfm)		1995	2000		AirFlow (cfm)		2018	2000	
Nominal Vel (fpm)		499	500		Nominal Vel (fpm)		505	500	
Initial ΔP (inWG)		0.22	0.23		Initial ΔP (inWG)		0.22	0.23	
MERV		8	8	@1995cfm	MERV-A		7A	8A	@2018cfm
E ₁ (0.3-1.0μm), (%)		5	n/a		E ₁ -A (0.3-1.0μm), (%)		9	n/a	
E ₂ (1.0-3.0μm), (%)		40	≥ 20		E ₂ -A (1.0-3.0μm), (%)		39	≥ 20	
E ₃ (3.0-10μm), (%)		74	≥ 70		E ₃ -A (3.0-10μm), (%)		67	≥ 70	
Final DP, (inWG)		1.0	1.0		Final DP, (inWG)		1.0	1.0	
Arrestance, (%)		95	90		Arrestance-A, (%)		95	90	
DHC, (g)		75			DHC-A, (g)		88		
Temp, (F)	75	Test Aerosol		KCL	Temp, (F)	75	Test Aerosol		KCL
RH, (%)	52	Loading Dust		ASHRAE	RH, (%)	49	Loading Dust		ASHRAE
 									
Certified Test Per ASHRAE 52.2-2017					Operator		Particle Counter		Model
Approval:	<i>Don Thornburg, R&D Manager</i> Electronic Signature, Original on file				AA		TSI		OPS-3330

ASHRAE® 52.2-2017 Test Results

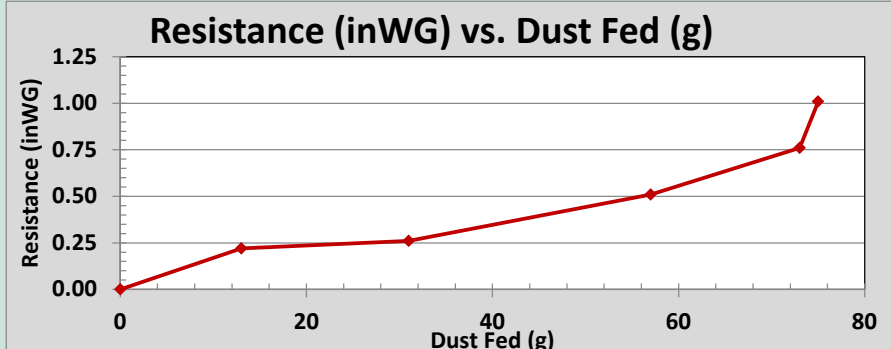
Date:	Sep 19, 2017	Test Report:	170919_1867
Manufacturer	Filter Model	Filter Part Number	
Camfil USA	Aeropleat III M8 2in	116300-005	

Clean Resistance Table			
cfm	m ³ /s	inWG	Pa
1001	0.47	0.06	16
1503	0.71	0.14	34
1995	0.94	0.22	55
2498	1.18	0.31	76

248.8454



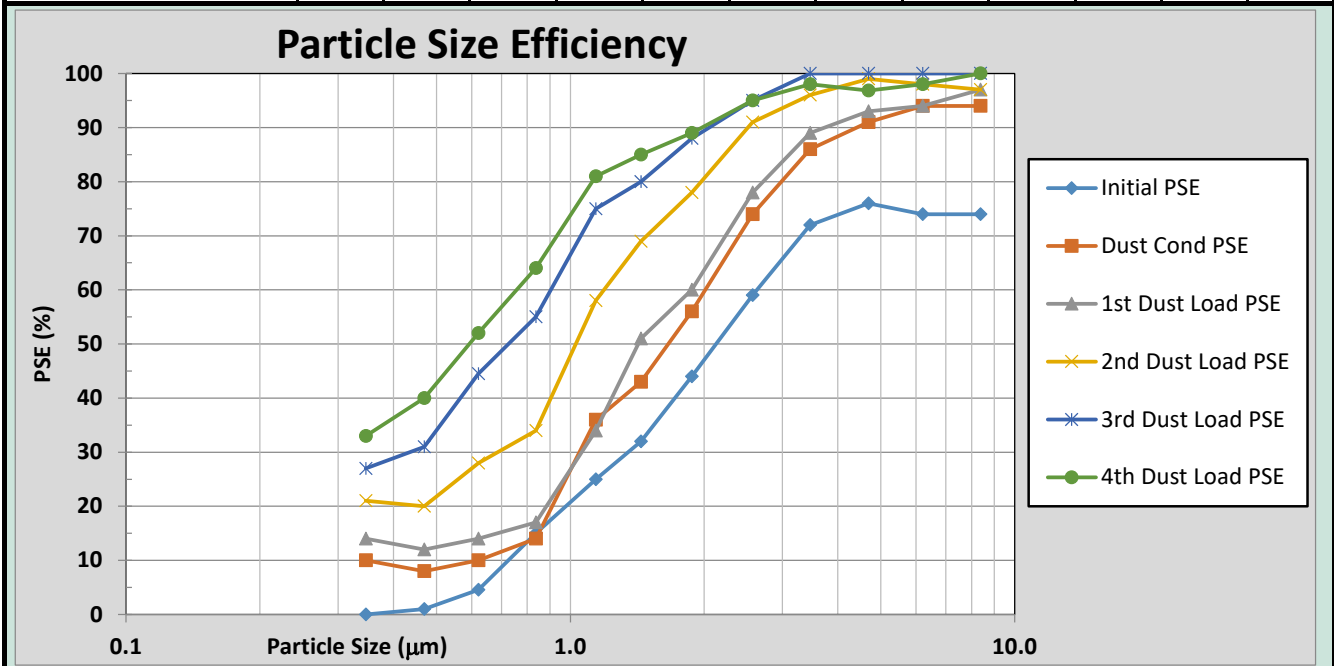
ΔP (inWG)	Dust Fed (g)
0.00	0
0.22	13
0.26	31
0.51	57
0.76	73
1.01	75





ASHRAE® 52.2-2017 Test Results

Date:	Sep 19, 2017	Test Report:	170919_1867									
Manufacturer		Filter Model										
Camfil USA		Aeropleat III M8 2in										
Filter Part Number		116300-005										
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	0	1	5	15	25	32	44	59	72	76	74	74
Dust Cond PSE	10	8	10	14	36	43	56	74	86	91	94	94
1st Dust Load PSE	14	12	14	17	34	51	60	78	89	93	94	97
2nd Dust Load PSE	21	20	28	34	58	69	78	91	96	99	98	97
3rd Dust Load PSE	27	31	44	55	75	80	88	95	100	100	100	100
4th Dust Load PSE	33	40	52	64	81	85	89	95	98	97	98	100
Composite Min PSE	0	1	5	14	25	32	44	59	72	76	74	74



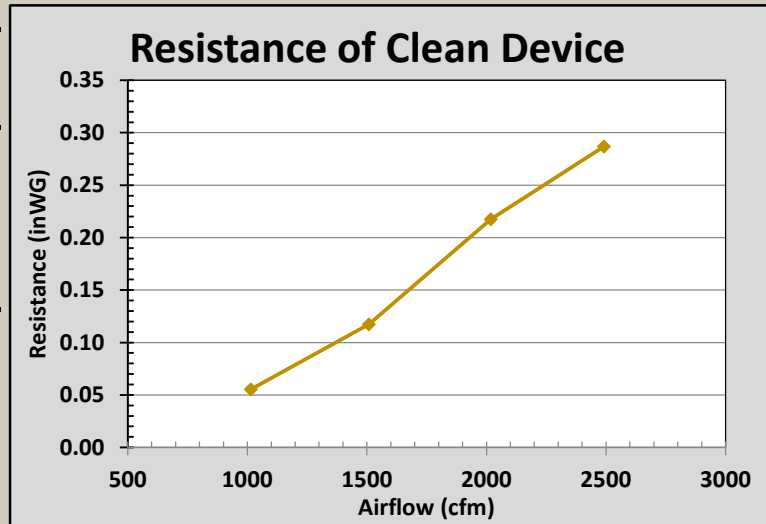
All testing is performed in compliance with the latest revision of ASHRAE Standard 52.2 in a state-of-the-art laboratory facility located at the Camfil USA headquarters in Riverdale, NJ. Test Reports without DHC values show efficiency only and the associated MERV value is a estimated value based on the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

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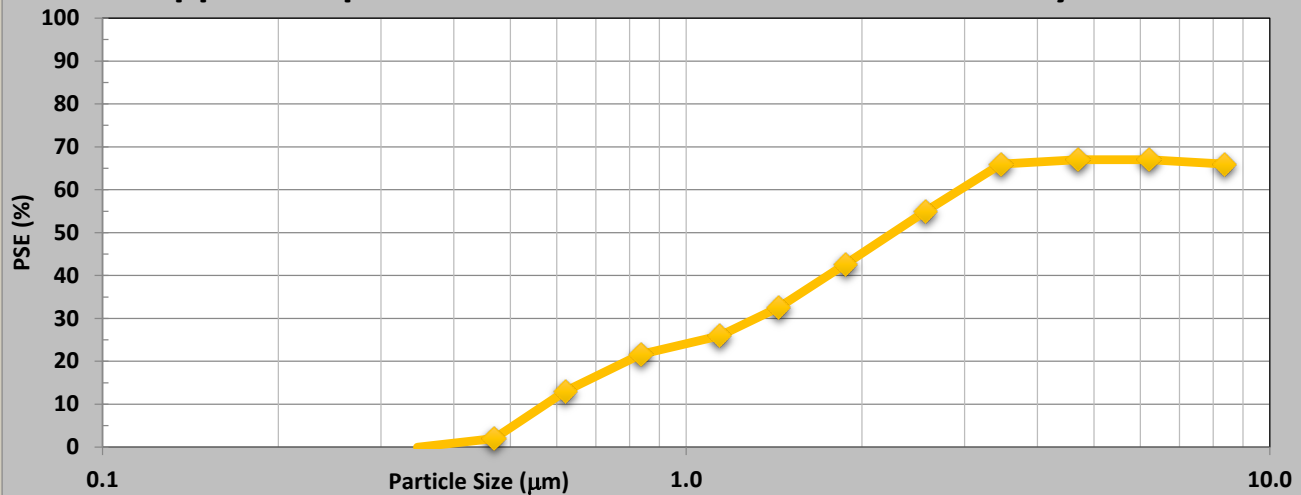
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Date:	06/16/2020	Test Number:	200616_1867
Manufacturer	Filter Model	Filter Part Number	
Camfil USA	Aeropleat III M8 2in	116300-005	

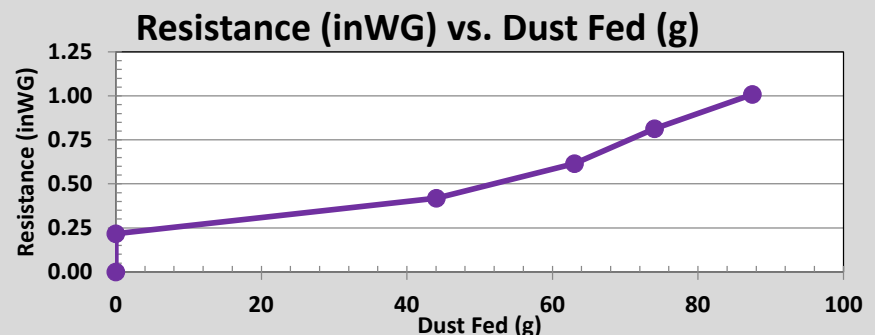
Clean Resistance Table			
cfm	m^3/s	inWG	Pa
1015	0.48	0.06	14
1508	0.71	0.12	29
2018	0.95	0.22	54
2492	1.18	0.29	71



App J Composite Minimum Particle Size Efficiency



ΔP (inWG)	Dust Fed (g)
0.00	0
0.22	0
0.42	44
0.61	63
0.81	74
1.01	88

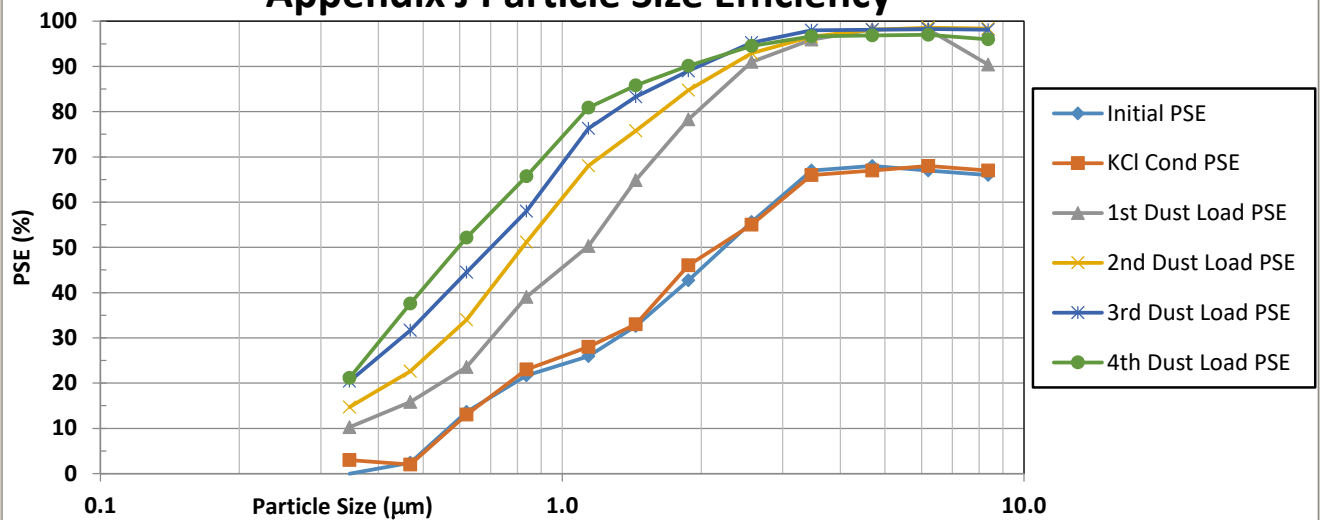




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Date:	06/16/2020	Test Number:	200616_1867										
Manufacturer		Filter Model						Filter Part Number					
Camfil USA		Aeropleat III M8 2in						116300-005					
App J Efficiency Data Table	1	2	3	4	5	6	7	8	9	10	11	12	
	Minimum Dia (µm)	0.3	0.4	0.55	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	0	2	14	22	26	33	43	56	67	68	67	66
	KCl Cond PSE	3	2	13	23	28	33	46	55	66	67	68	67
	1st Dust Load PSE	10	16	24	39	50	65	78	91	96	98	98	90
	2nd Dust Load PSE	15	23	34	51	68	76	85	93	97	98	99	98
	3rd Dust Load PSE	20	32	44	58	76	83	89	95	98	98	98	98
	4th Dust Load PSE	21	38	52	66	81	86	90	95	97	97	97	96
	Composite Min PSE	0	2	13	22	26	33	43	55	66	67	67	66

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)	
12.0	4.70E+05	382	1.79E+08	
Large Particle Concentration (Particles/cm ³)	Ratio Small to Large (>20,000)	Conditioning ΔP (inWG)		Same duct?
		Initial ΔP	Final ΔP	
21	22,369	0.22	0.22	No



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Date:	06/16/2020	Test Number:	200616_1867										
Manufacturer		Filter Model						Filter Part Number					
Camfil USA		Aeropleat III M8 2in						116300-005					
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	0	2	14	22	26	33	43	56	67	68	67	66
	1st KCI Cond PSE	3	3	12	21	27	32	44	55	66	68	67	67
	2nd KCI Cond PSE	3	2	13	23	28	33	46	55	66	67	68	67
	3rd KCI Cond PSE												
	4th KCI Cond PSE												
	5th KCI Cond PSE												
	Final KCI Cond PSE	3	2	13	23	28	33	46	55	66	67	68	67

KCI Conditioning Particle Size Efficiency

