



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

ASHRAE® 52.2-2012 Test Results w/Appendix J Results

Filter Description

Manufacturer		Filter Model			Filter Part Number		
Camfil		30/30 Dual 9			406331-005		
Filter Type		Media Type		Media Color		Media Area (ft²)	
PleatedPanel		Polyester - Mechanical		Green/White		17	
Nominal Size	Actual Size						
HxWxD	Hgt (in)	Wid (in)	Dep (in)	Pleats/Pockets	UL Rating	LabFile	CrRef
24x24x2	23 3/8	23 3/8	1 3/4	29	Yes	1481	1481

ASHRAE® 52.2-2012

Time:	9:56:23	Date:	Jan 17, 2017
Test Number:	16206-007_00004487.047.aec		
Test Data	Test Results	Rated Values	
AirFlow (cfm)	1969	1970	
Nominal Vel (fpm)	492	493	
Initial ΔP (inWG)	0.26	0.30	
MERV	9	9	@1969cfm
E ₁ (0.3-1.0μm), (%)	7	n/a	
E ₂ (1.0-3.0μm), (%)	45	≥ 35	
E ₃ (3.0-10μm), (%)	92	≥ 75	
Final DP, (inWG)	1.0	1.0	
Arrestance, (%)	93	8	
DHC, (g)	187		
Temp, (F)	75	Test Aerosol	KCI
RH, (%)	49	Loading Dust	ASHRAE

Comments

ASHRAE® 52.2-2012 w/App J

Time:	14:51:01	Date:	Jan 19, 2017
Test Number:	16206-012-KCL_00004507.047.aec		
Test Data	Test Results	Rated Values	
AirFlow (cfm)	1969	1970	
Nominal Vel (fpm)	492	493	
Initial ΔP (inWG)	0.26	0.30	
MERV-A	9A	9A	@1969cfm
E ₁ -A (0.3-1.0μm), (%)	6	n/a	
E ₂ -A (1.0-3.0μm), (%)	41	≥ 35	
E ₃ -A (3.0-10μm), (%)	87	≥ 75	
Final DP, (inWG)	1.0	1.0	
Arrestance-A, (%)	93	8	
DHC-A, (g)	199		
Temp, (F)	75	Test Aerosol	KCI
RH, (%)	48	Loading Dust	ASHRAE

Comments

Certified Test Per ASHRAE 52.2-2012

Approval:

Don Thornburg
Electronic Signature, Original on file

Operator

AA

Particle Counter

TSI

Model

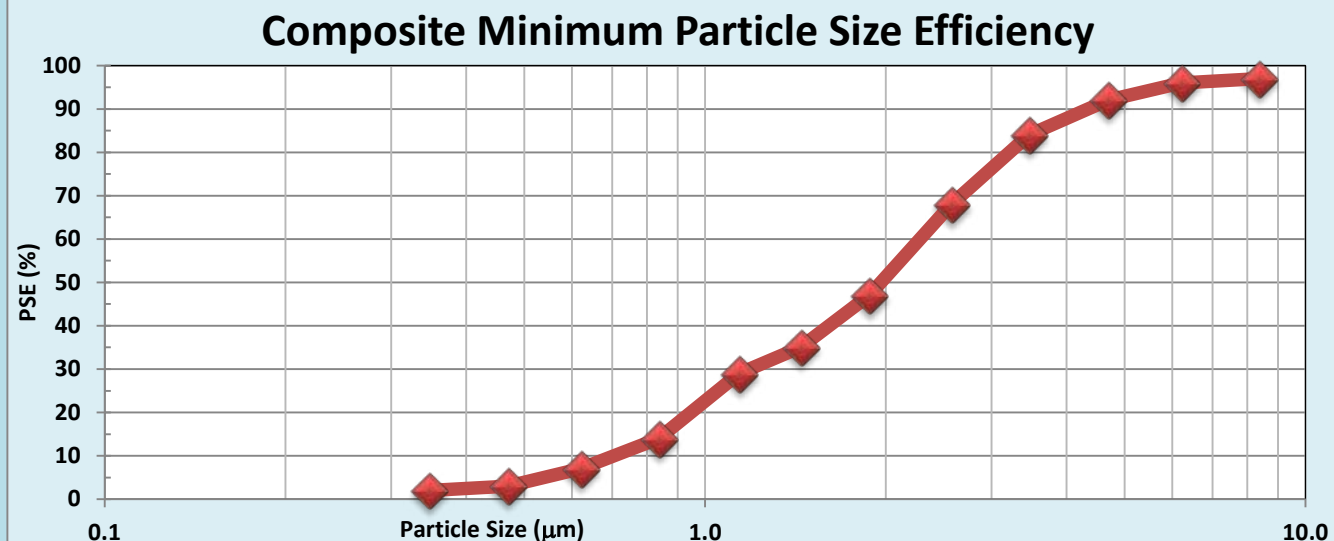
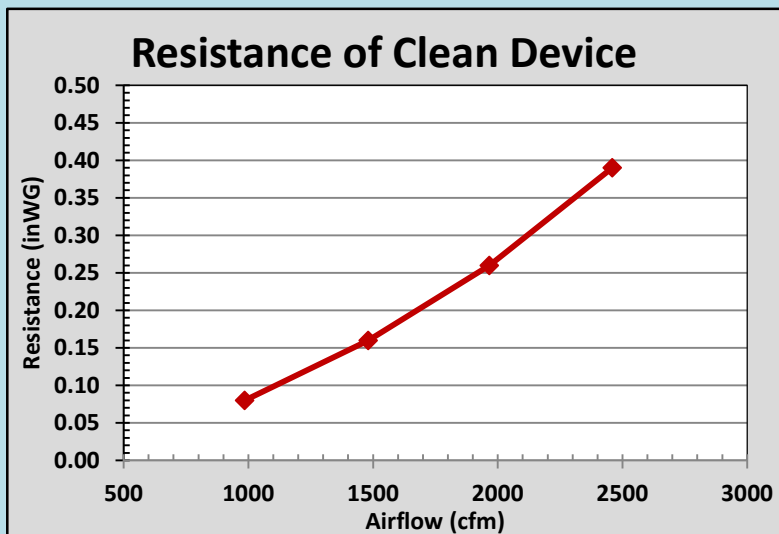
OPS 3330

Camfil Permission Required for Distribution

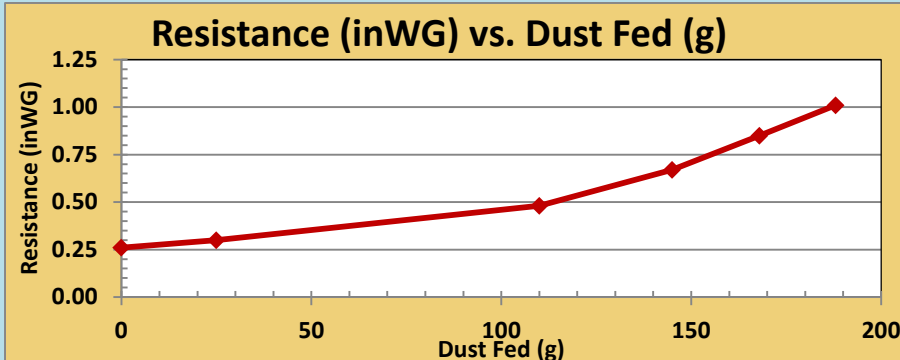
ASHRAE® 52.2-2012 Test Results

Date:	Jan 17, 2017	Test Number:	16206-007_00004487.047.aec
Manufacturer	Camfil	Filter Model	30/30 Dual 9
		Filter Part Number	406331-005

Clean Resistance Table			
cfm	m ³ /s	inWG	Pa
986	0.47	0.08	20
1481	0.70	0.16	40
1966	0.93	0.26	65
2459	1.16	0.39	97



ΔP (inWG)	Dust Fed (g)
0.26	0
0.30	25
0.48	110
0.67	145
0.85	168
1.01	188

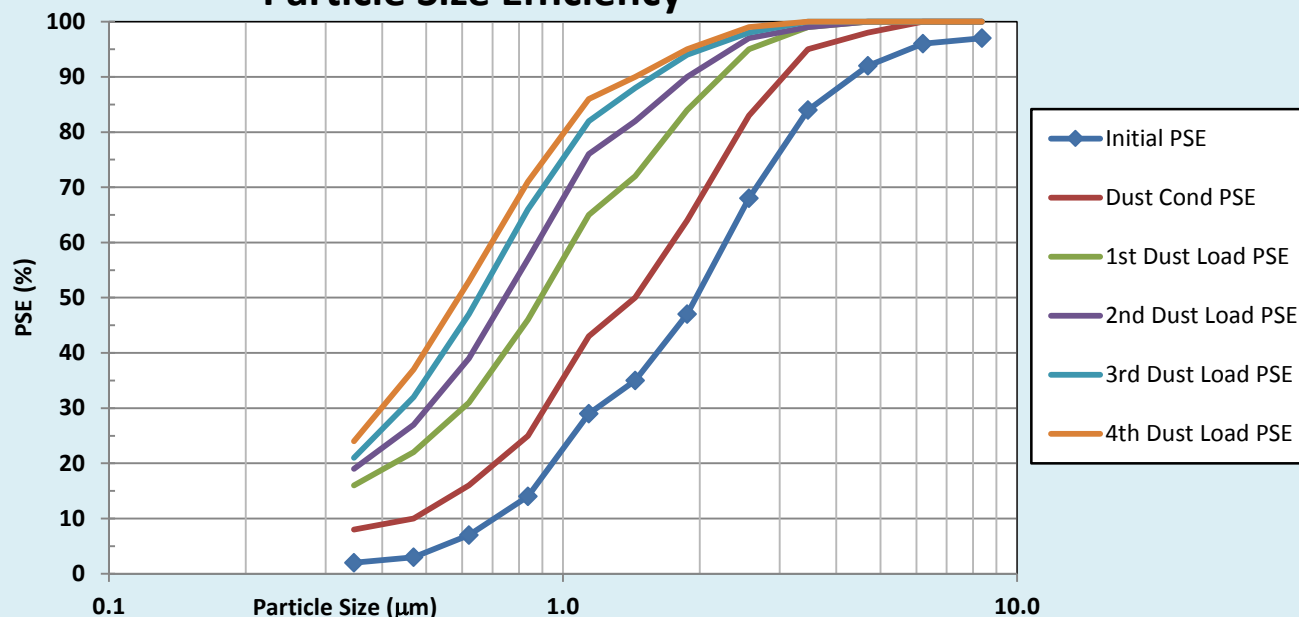




ASHRAE® 52.2-2012 Test Results

Date:	Jan 17, 2017			Test Number:		16206-007_00004487.047.aec						
Manufacturer				Filter Model					Filter Part Number			
Camfil				30/30 Dual 9					406331-005			
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	2	3	7	14	29	35	47	68	84	92	96	97
Dust Cond PSE	8	10	16	25	43	50	64	83	95	98	100	100
1st Dust Load PSE	16	22	31	46	65	72	84	95	99	100	100	100
2nd Dust Load PSE	19	27	39	57	76	82	90	97	99	100	100	100
3rd Dust Load PSE	21	32	47	66	82	88	94	98	100	100	100	100
4th Dust Load PSE	24	37	53	71	86	90	95	99	100	100	100	100
Composite Min PSE	2	3	7	14	29	35	47	68	84	92	96	97

Particle Size Efficiency



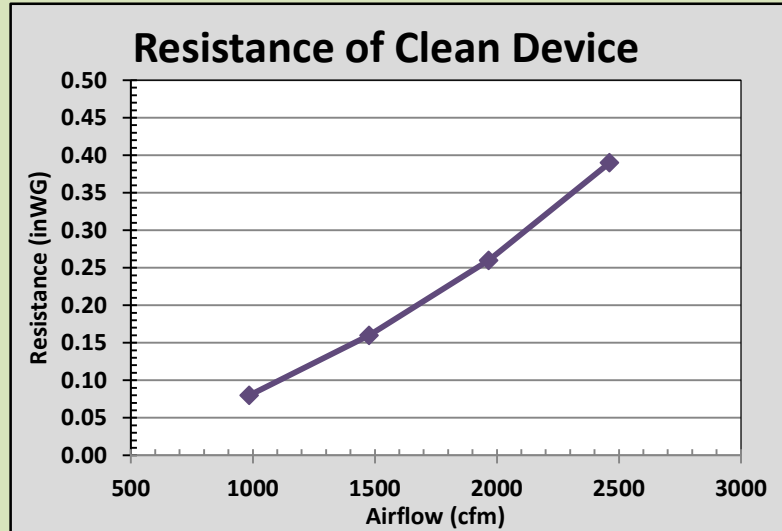
All testing is performed in compliance with the latest revision of ASHRAE Standard 52.2 in a state-of-the-art laboratory facility located at the Camfil USA headquarters in Riverdale, NJ. Test Reports without DHC values show efficiency only and the associated MERV value is a estimated value based on the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

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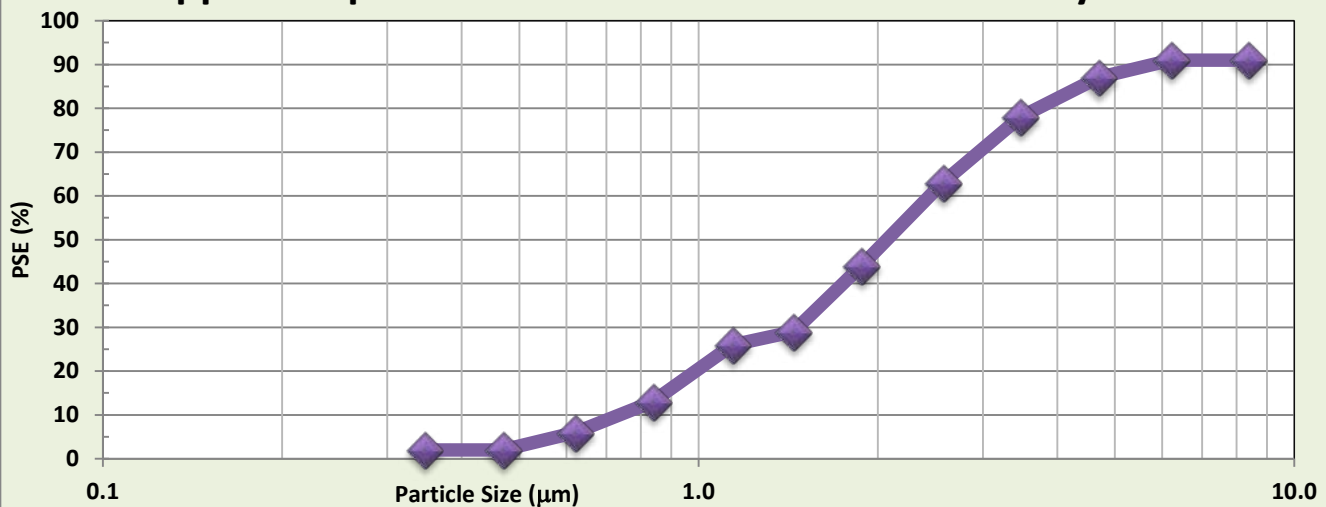
ASHRAE® 52.2-2012 Test Results w/ Appendix J Results

Date:	01/19/2017	Test Number:	16206-012-KCL_00004507.047.aec
Manufacturer	Filter Model	Filter Part Number	
Camfil	30/30 Dual 9	406331-005	

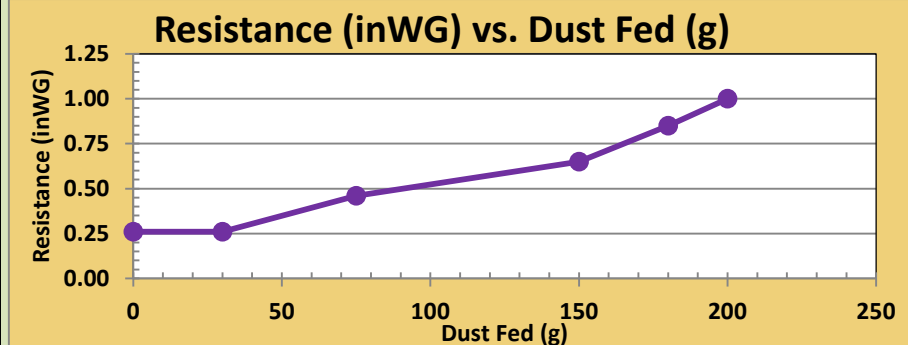
Clean Resistance Table			
cfm	m ³ /s	inWG	Pa
986	0.47	0.08	20
1476	0.70	0.16	40
1966	0.93	0.26	65
2462	1.16	0.39	97



App J Composite Minimum Particle Size Efficiency



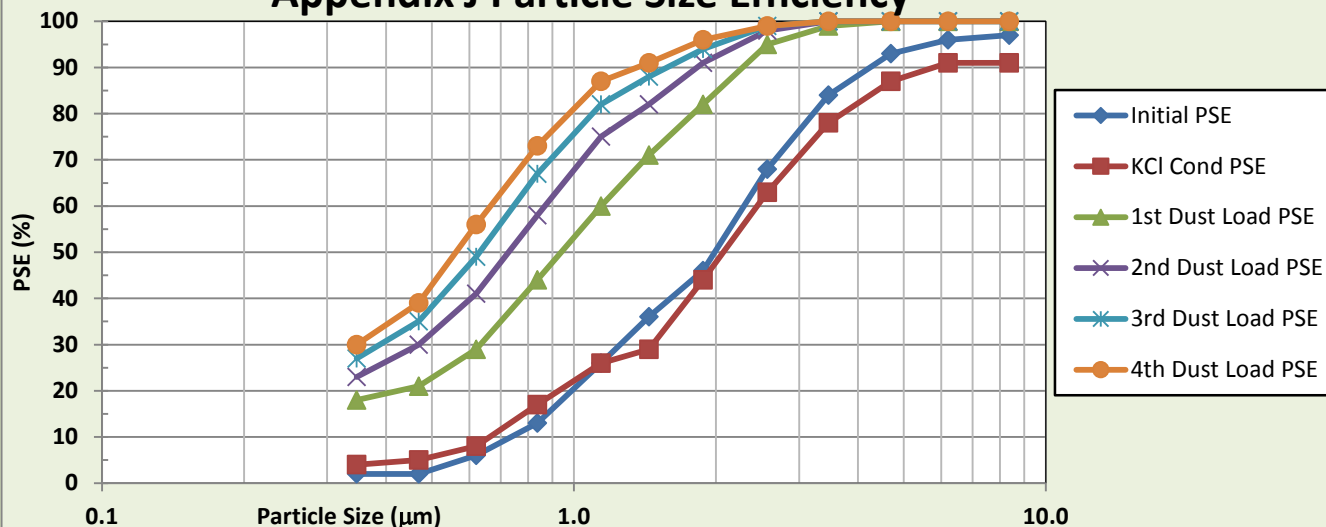
ΔP (inWG)	Dust Fed (g)
0.26	0
0.26	30
0.46	75
0.65	150
0.85	180
1.00	200



ASHRAE® 52.2-2012 Test Results w/ Appendix J Results

Date:	01/19/2017			Test Number:		16206-012-KCL_00004507.047.aec							
Manufacturer				Filter Model						Filter Part Number			
Camfil				30/30 Dual 9						406331-005			
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	2	2	6	13	26	36	46	68	84	93	96	97
	KCl Cond PSE	4	5	8	17	26	29	44	63	78	87	91	91
	1st Dust Load PSE	18	21	29	44	60	71	82	95	99	100	100	100
	2nd Dust Load PSE	23	30	41	58	75	82	91	98	100	100	100	100
	3rd Dust Load PSE	27	35	49	67	82	88	94	99	100	100	100	100
4th Dust Load PSE	30	39	56	73	87	91	96	99	100	100	100	100	
Composite Min PSE	2	2	6	13	26	29	44	63	78	87	91	91	

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)	
303.0	1.51E+05	790	1.23E+08	
Large Particle Concentration (Particles ft ³)	Ratio Small to Large (>20,000)	Conditioning ΔP (inWG)	Same duct?	
		Initial ΔP	Final ΔP	
30,000	142,546	0.26	0.26	No

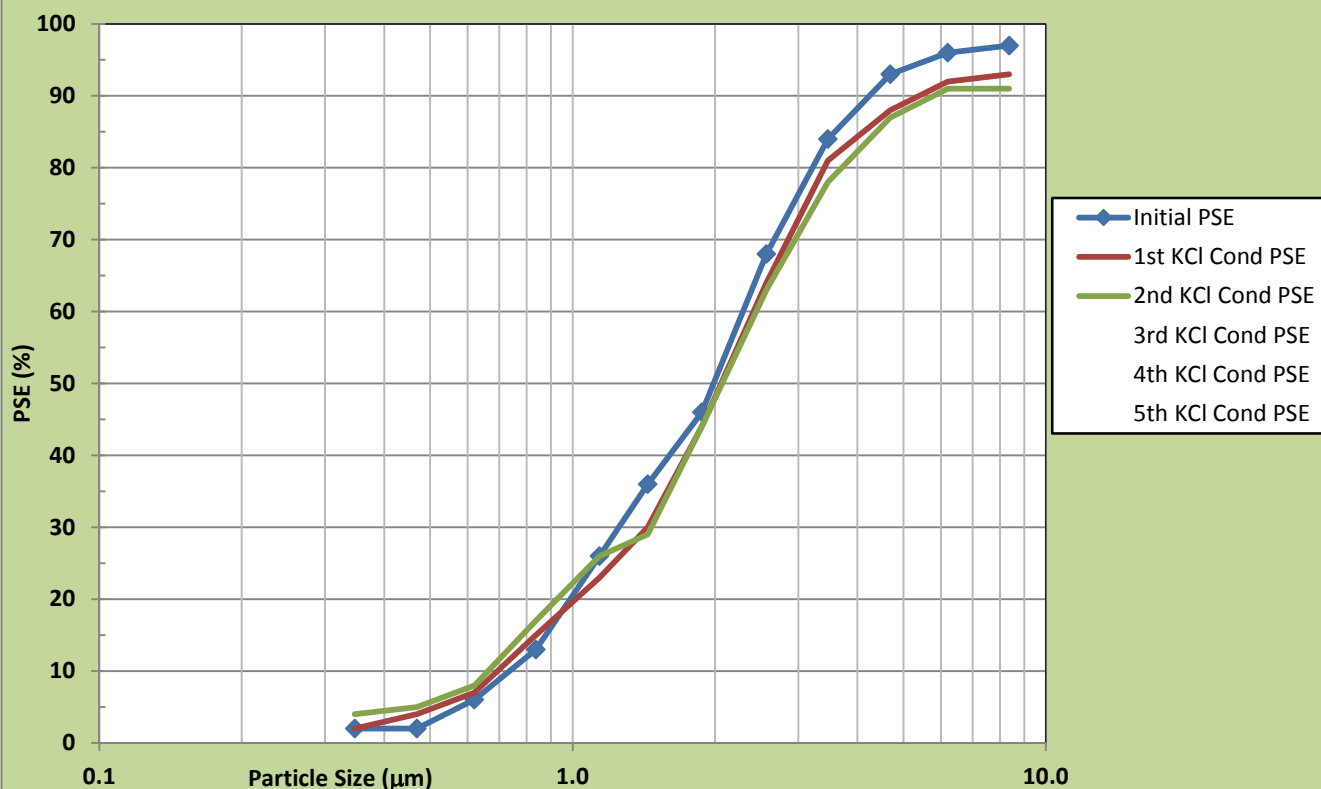


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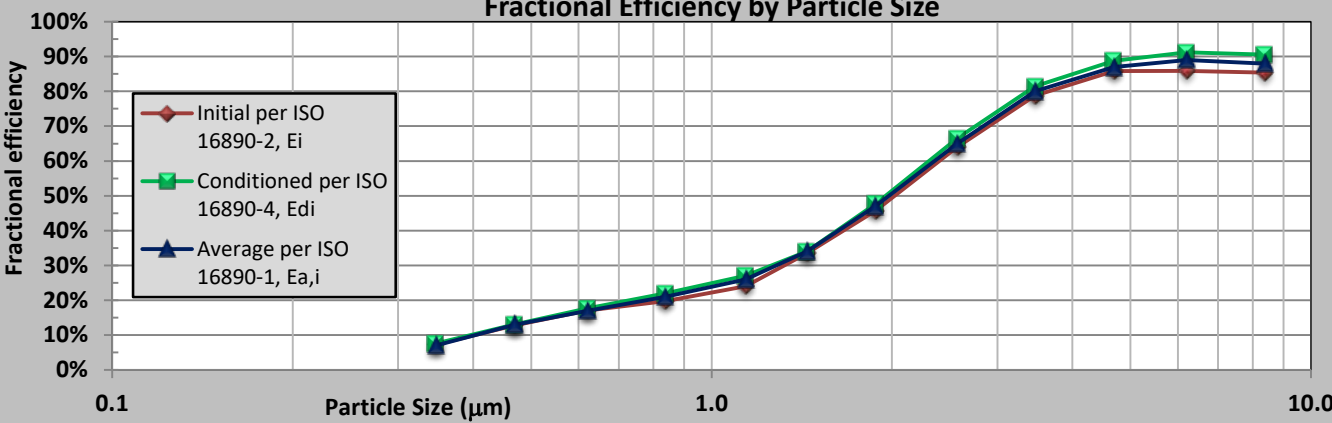
ASHRAE® 52.2-2012 Test Results w/ Appendix J Results

Date:	01/19/2017			Test Number:		16206-012-KCL_00004507.047.aec							
Manufacturer				Filter Model						Filter Part Number			
Camfil				30/30 Dual 9						406331-005			
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	2	2	6	13	26	36	46	68	84	93	96	97
	1st KCI Cond PSE	2	4	7	15	23	30	44	64	81	88	92	93
	2nd KCI Cond PSE	4	5	8	17	26	29	44	63	78	87	91	91
	3rd KCI Cond PSE												
	4th KCI Cond PSE												
5th KCI Cond PSE													
Final KCI Cond PSE	4	5	8	17	26	29	44	63	78	87	91	91	

KCI Conditioning Particle Size Efficiency



ISO 16890-1:2016 - Air Filter Test Results Summary

Test Information									
Report ID			Report Date		Test Requested by			Supervisor	
USA-1585-4252R			7-Nov-2019		Manufacturer			Don Thornburg	
Device Tested									
Manufacturer		Model		Part Number		How Test Sample Obtained & Date			
Camfil USA		30/30 D9 2in		406331-005		Manufacturer Supplied		14-Aug-2017	
Nom Size HxWxD (in)		Pleats/Pockets		Media Color		Media Charge		Media Adhesive	
24x24x2		29		Green/White		None		None	
Media Type			Media Area (ft ²)		Product Type		UL Rating		
Dual Layer Polyester			17.2		Pleated panel		UL 900		
Test Results Summary									
Resistance to Airflow					Fractional Efficiency and ISO Rating				
Airflow (cfm)	Measured Resistance (inWG)	Met Published value	Rated Initial Resistance (inWG)	Product Literature listed ISO 16890 Rating	Met Published value	ISO 16890 Rating			
2001	0.32		0.30	ISO ePM10 55%		ISO ePM10 60%			
Arrestance:	Initial:	62%	Average:	93%	ePM ₁	ePM _{1,min}	ePM _{2,5}	ePM _{2,5,min}	ePM ₁₀
Rated Final Resistance (inWG)			0.85		13%	14%	24%	24%	61%
Test Dust Capacity (TDC) (g)			485						
Test Information and Included Reports									
Test Type		Test ID		Test Date		Test Time		Test Operator	
Initial per ISO 16890-2		USA-1585-4252		7-Nov-2019		1:15		A. Acain	
Conditioned per ISO 16890-4		USA-1585-4256		8-Nov-2019		9:29		A. Acain	
Dust Loaded per 16890-3		USA-1585-4271		14-Nov-2019		10:09		A. Acain	
Fractional Efficiency by Particle Size									
									
Approvals									
	Certified Test Per ISO 16890-1:2016				Test Organization	Camfil USA 1 N. Corporate Dr. Riverdale, NJ 07457 (973) 616-7300			
	Don Thornburg, R&D Manager								
	Electronic Signature, Original on file								
Note:	The results of this test relate only to the test device in the condition stated herein. The performance results cannot by themselves be quantitatively applied to predict filtration performance in all "real life" environments.								

ISO 16890-1:2016 - Air Filter Test Results Details

Test Information

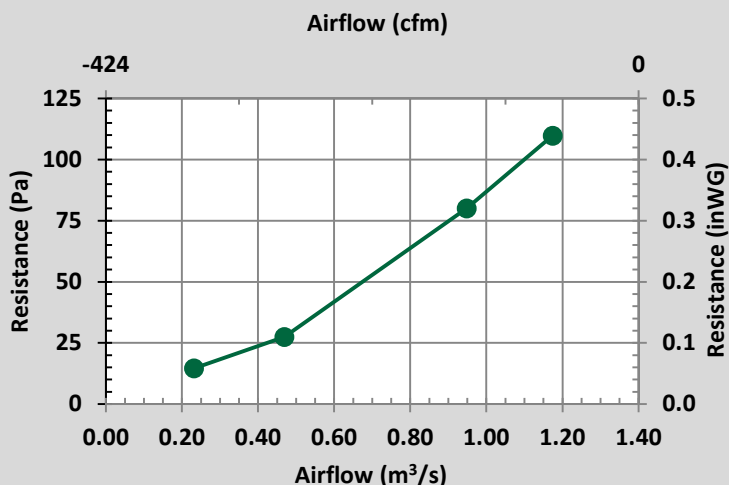
Report ID	Report Date	Test Organization	Supervisor
USA-1585-4252R	7-Nov-2019	Camfil USA	Don Thornburg

Clean Resistance Table at 1.2kg/m³

Test Airflow			Resistance	
% Rated	m ³ /s	cfm	Pa	inWG
25%	0.23	500	15	0.05
50%	0.47	1000	27	0.11
100%	0.95	2000	80	0.31
125%	1.17	2500	110	0.44

For complete Test Result Details and data, please review the individual test reports for ISO 16890-2, 16890-3, and 16890-4.

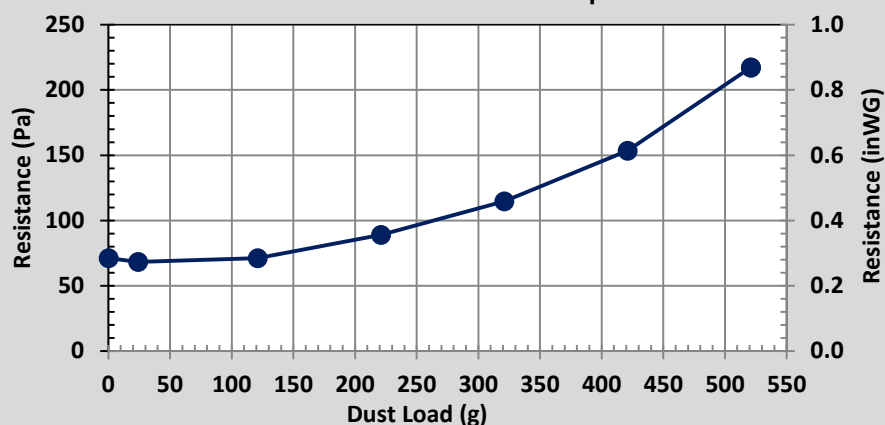
Resistance of Clean Device



Dust Captured Table

Resistance to Airflow		Dust Load (g)
Pa	inWG	
71	0.29	0
68	0.27	24
71	0.29	121
89	0.36	221
115	0.46	321
154	0.62	421
217	0.87	521
N/A	N/A	N/A

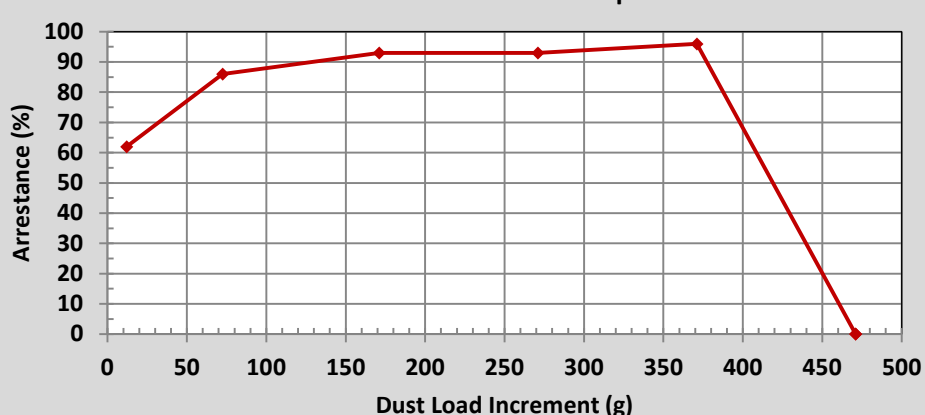
Resistance vs. Test Dust Captured



Arrestance Table

Arrestance (%)	Dust Load Increment (g)
62	12
86	73
93	171
93	271
96	371
#VALUE!	471
#VALUE!	N/A

Arrestance vs. Test Dust Captured



Note:

The results of this test relate only to the test device in the condition stated herein. The performance results cannot by themselves be quantitatively applied to predict filtration performance in all "real life" environments.

ISO 16890-1:2016 - Results Calculations

Report ID	Report Date	Test Organization	Supervisor
USA-1585-4252R	7-Nov-2019	Camfil USA	Don Thornburg

Fractional Efficiency Values							
i	d_i	d_{i+1}	d_m	$\Delta \ln d_i$	E_i	$E_{D,i}$	$E_{A,i}$
1	0.30	0.40	0.35	0.29	7%	8%	7%
2	0.40	0.55	0.47	0.32	13%	13%	13%
3	0.55	0.70	0.62	0.24	17%	18%	17%
4	0.70	1.00	0.84	0.36	20%	22%	21%
5	1.00	1.30	1.14	0.26	24%	27%	26%
6	1.30	1.60	1.44	0.21	33%	34%	34%
7	1.60	2.20	1.88	0.32	46%	48%	47%
8	2.20	3.00	2.57	0.31	64%	66%	65%
9	3.00	4.00	3.46	0.29	79%	81%	80%
10	4.00	5.50	4.69	0.32	86%	89%	87%
11	5.50	7.00	6.20	0.24	86%	91%	89%
12	7.00	10.00	8.37	0.36	85%	91%	88%

Symbols and Units	
d_i	Lower limit particle diameter in a size range i , μm
d_{i+1}	Upper limit particle diameter in a size range i , μm
d_m	Geometric mean diameter of a size range, μm
$\Delta \ln d_i$	Logarithmic width of a particle diameter size range i
E_i	Initial fractional efficiency of particle size range i of the untreated and unloaded filter element, %
$E_{D,i}$	Fractional efficiency of particle size range i of the conditioned filter element, %
$E_{A,i}$	Average fractional efficiency of particle size range i , %

ISO 16890-1:2016 - Results Calculations

Report ID	Report Date	Test Organization	Supervisor
USA-1585-4252R	7-Nov-2019	Camfil USA	Don Thornburg

Calculation of PM Efficiencies								
i	d_m	$\Delta \ln d_i$	q_{3u} (Urban Distribution)	$q_{3u} * \Delta \ln d_i$	$E_{D,i} * q_{3u} * \Delta \ln d_i$	$E_{A,i} * q_{3u} * \Delta \ln d_i$	ePM _{1,min}	ePM ₁
	μm	μm						
1	0.35	0.29	22.627%	0.065095	0.004933	0.004557	14%	13%
2	0.47	0.32	19.891%	0.063343	0.008262	0.008235		
3	0.62	0.24	15.837%	0.038193	0.006746	0.006493		
4	0.84	0.36	11.522%	0.041097	0.009022	0.008630		
Sums:				0.207728	0.028964	0.027915		
5	1.14	0.26	8.503%	0.022309	0.006039	0.005800	ePM _{2,5, min}	ePM _{2,5}
6	1.44	0.21	7.618%	0.015817	0.005385	0.005378		
7	1.88	0.32	8.022%	0.025546	0.012182	0.012007		
8	2.57	0.31	9.984%	0.030966	0.020583	0.020128		
Sums:				0.302366	0.073154	0.071227	24%	24%
i	d_m	$\Delta \ln d_i$	q_{3r} (Rural Distribution)	$q_{3r} * \Delta \ln d_i$		$E_{A,i} * q_{3r} * \Delta \ln d_i$		
	μm	μm						
1	0.35	0.29	9.412%	0.027077		0.001895		
2	0.47	0.32	8.395%	0.026733		0.003475		
3	0.62	0.24	7.432%	0.017924		0.003047		
4	0.84	0.36	7.014%	0.025016		0.005253		
5	1.14	0.26	7.628%	0.020013		0.005203		
6	1.44	0.21	8.833%	0.018340		0.006236		
7	1.88	0.32	10.804%	0.034406		0.016171		
8	2.57	0.31	13.726%	0.042573		0.027672		
9	3.46	0.29	16.708%	0.048067		0.038454		
10	4.69	0.32	19.542%	0.062233		0.054143		
11	6.20	0.24	21.671%	0.052261		0.046513		
12	8.37	0.36	23.143%	0.082545		0.072639		
Sums:				0.457189		0.280702	61%	

ASHRAE 52.2-2017 Test Results w/Appendix J Results

Filter Description									
Manufacturer		Filter Model			Filter Part Number				
Camfil		30/30 Dual 9 4in			406332-005				
Filter Type		Media Type		Media Color		Media Area (ft ²)			
PleatedPanel		Dual Layer Polyester		Green		28			
Nominal Size		Actual Size							
HxWxD		Hgt (in)	Wid (in)	Dep (in)	Pleats/Pockets		UL Rating		
24x24x4		23 3/8	23 3/8	3 3/4	22		Yes		
ASHRAE 52.2-2017					ASHRAE 52.2-2017				
Test Report:		181126_589			Test Report:		181127_590		
Time:	6:46:10	Date:	Nov 26, 2018		Time:	1:47:23	Date:	Nov 28, 2018	
Test Data		Test Results	Rated Values		Test Data		Test Results	Rated Values	
AirFlow (cfm)		2000	2000		AirFlow (cfm)		2000	2000	
Nominal Vel (fpm)		500	500		Nominal Vel (fpm)		500	500	
Initial ΔP (inWG)		0.23	0.27		Initial ΔP (inWG)		0.25	0.27	
MERV		9	9	@2000cfm	MERV		9	9	@2000cfm
E ₁ (0.3-1.0μm), (%)		7	n/a		E ₁ (0.3-1.0μm), (%)		5	n/a	
E ₂ (1.0-3.0μm), (%)		39	≥ 35		E ₂ (1.0-3.0μm), (%)		37	≥ 35	
E ₃ (3.0-10μm), (%)		75	≥ 75		E ₃ (3.0-10μm), (%)		76	≥ 75	
Final DP, (inWG)		1.0	1.0		Final DP, (inWG)		1.0	1.0	
Arrestance, (%)		92	8		Arrestance, (%)		92	90	
DHC, (g)		232			DHC, (g)		221		
Temp, (F)	75	Test Aerosol		KCI	Temp, (F)	77	Test Aerosol		KCL
RH, (%)	48	Loading Dust		ASHRAE	RH, (%)	55	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:	Nov 26, 2018	Test Report:	181126_589
Manufacturer	Filter Model	Filter Part Number	
Camfil	30/30 Dual 9 4in	406332-005	

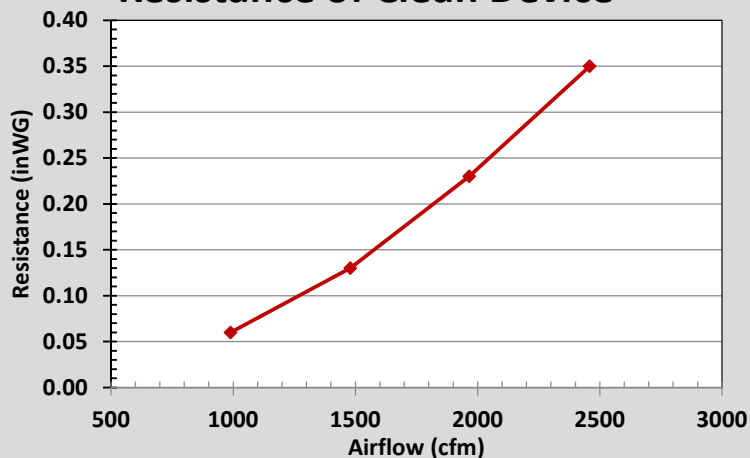
Clean Resistance Table

cfm	m ³ /s	inWG	Pa
989	0.47	0.06	15
1479	0.70	0.13	32
1966	0.93	0.23	57
2459	1.16	0.35	87

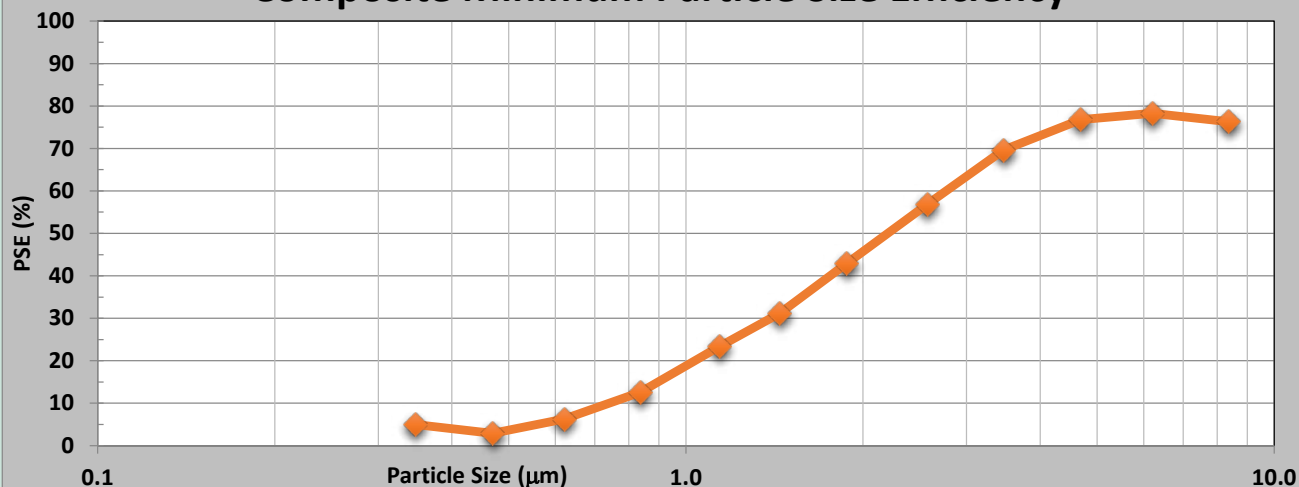
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248.8454

Resistance of Clean Device

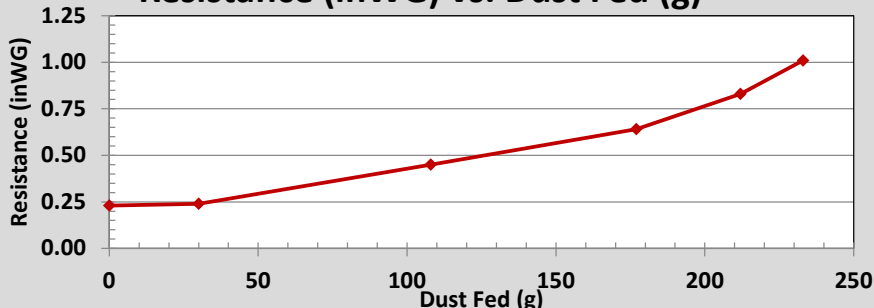


Composite Minimum Particle Size Efficiency



ΔP (inWG)	Dust Fed (g)
0.23	0
0.24	30
0.45	108
0.64	177
0.83	212
1.01	233

Resistance (inWG) vs. Dust Fed (g)

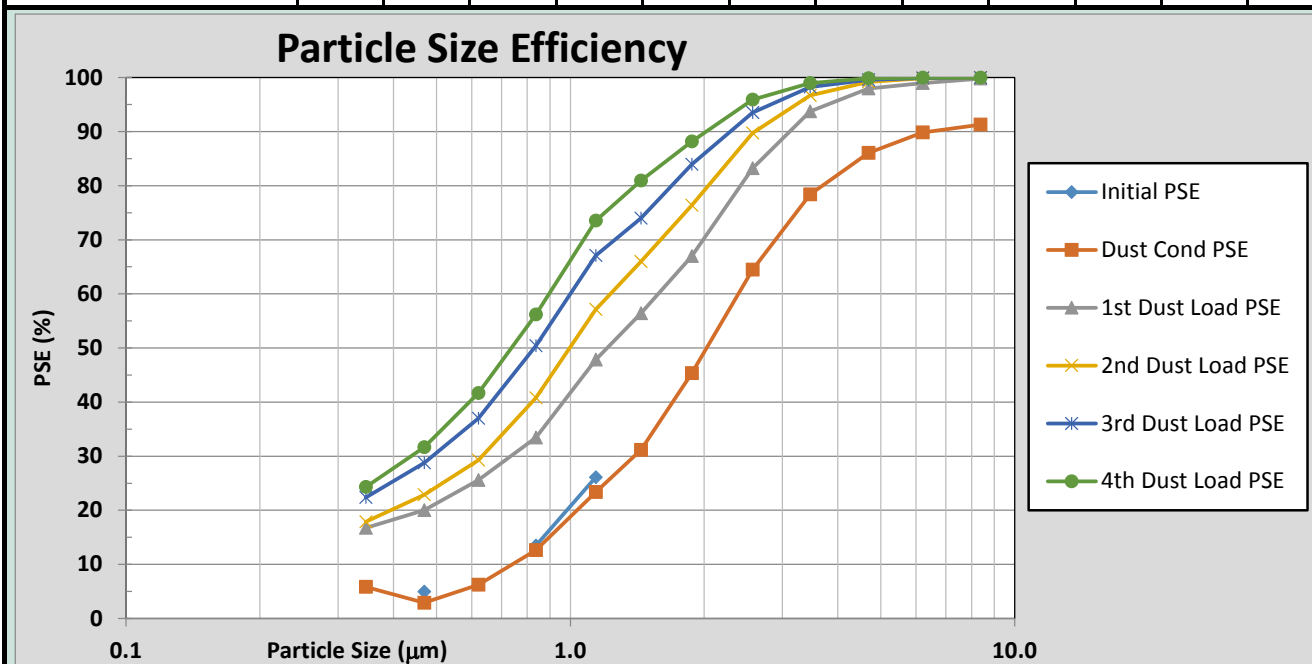




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ASHRAE® 52.2-2017 Test Results

Date:	Nov 26, 2018			Test Report:		181126_589						
Manufacturer				Filter Model					Filter Part Number			
Camfil				30/30 Dual 9 4in					406332-005			
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	5	5	9	13	26	34	43	57	70	77	78	76
Dust Cond PSE	6	3	6	13	23	31	45	64	78	86	90	91
1st Dust Load PSE	17	20	26	33	48	56	67	83	94	98	99	100
2nd Dust Load PSE	18	23	29	41	57	66	76	90	97	99	100	100
3rd Dust Load PSE	22	29	37	50	67	74	84	93	98	100	100	100
4th Dust Load PSE	24	32	42	56	74	81	88	96	99	100	100	100
Composite Min PSE	5	3	6	13	23	31	43	57	70	77	78	76



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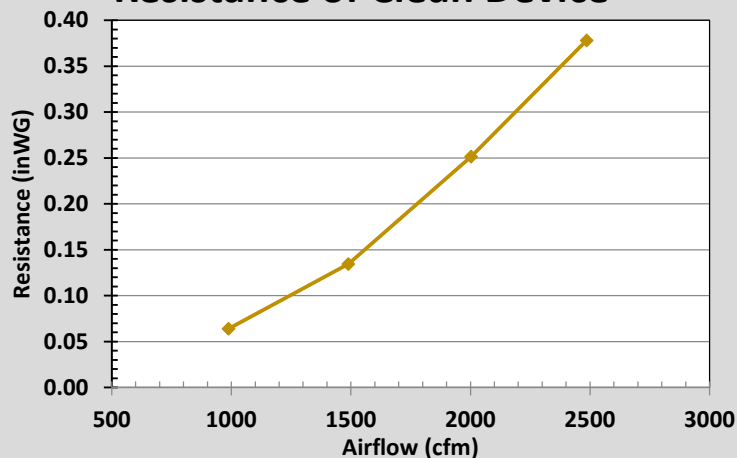
ASHRAE® 52.2-2017 Test Results w/ Appendix J Results

Date:	11/28/2018	Test Number:	181127_590
Manufacturer	Filter Model		Filter Part Number
Camfil	30/30 Dual 9 4in		406332-005

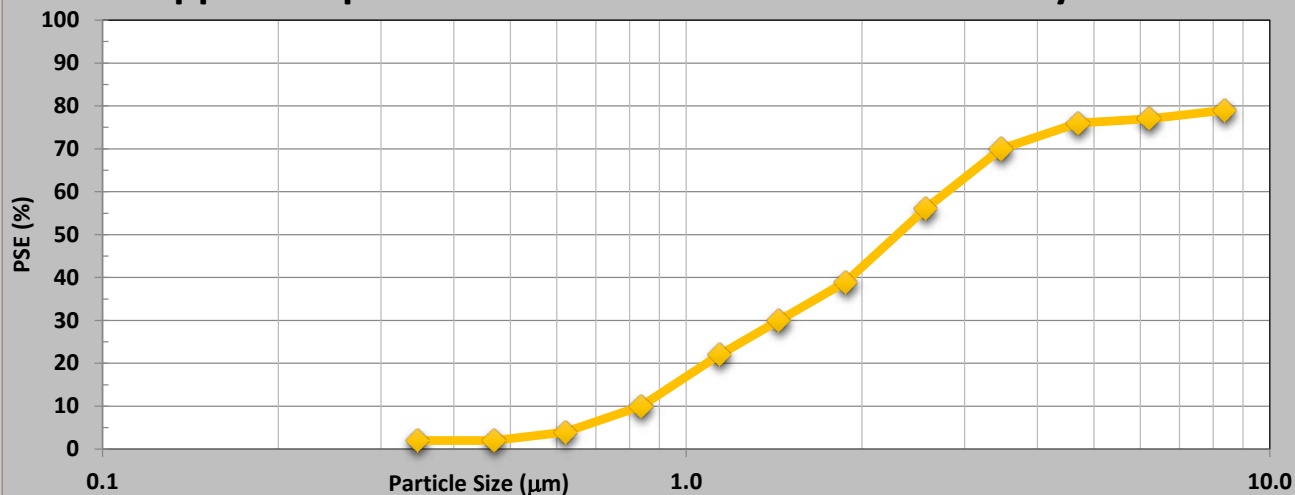
Clean Resistance Table

cfm	m ³ /s	inWG	Pa
988	0.47	0.063897	16
1490	0.70	0.134625	34
2003	0.95	0.251567	63
2486	1.17	0.378155	94

Resistance of Clean Device

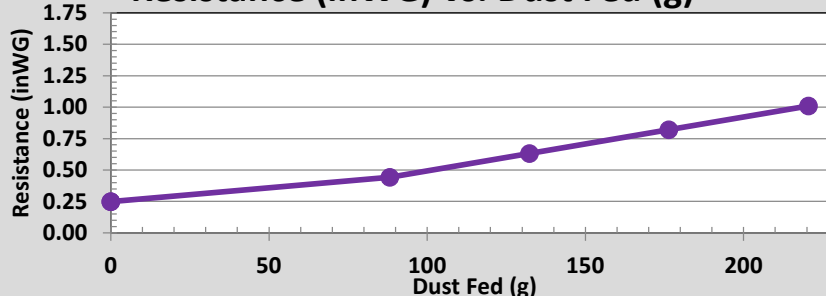


App J Composite Minimum Particle Size Efficiency



ΔP (inWG)	Dust Fed (g)
0.25	0
0.25	0
0.44	88
0.63	132
0.82	176
1.01	221

Resistance (inWG) vs. Dust Fed (g)



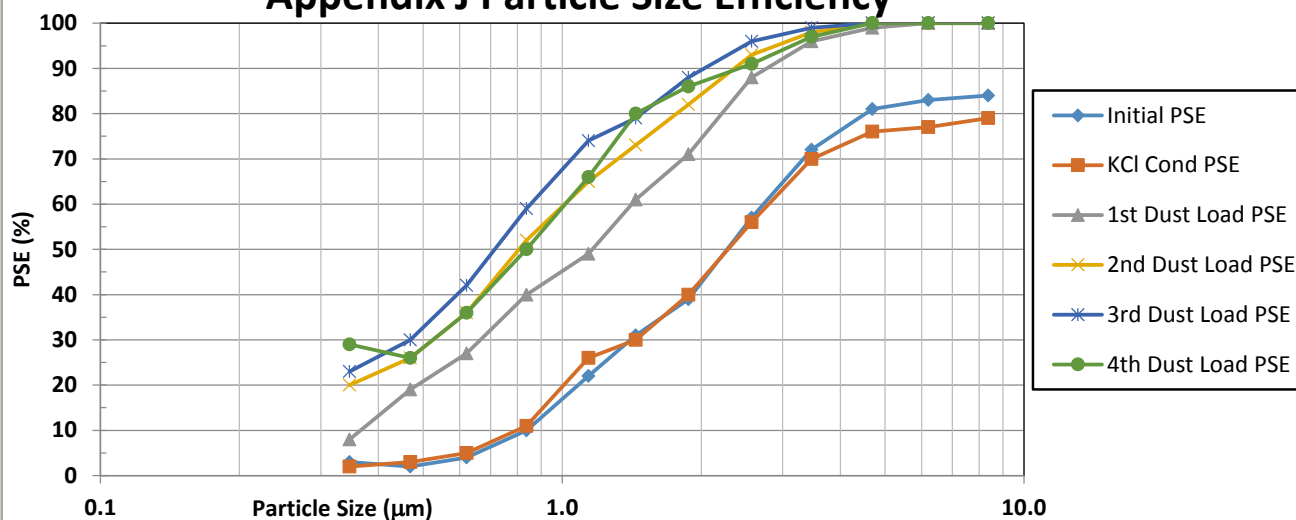


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ASHRAE® 52.2-2017 Test Results w/ Appendix J Results

Date:	11/28/2018			Test Number:			181127_590						
Manufacturer				Filter Model						Filter Part Number			
Camfil				30/30 Dual 9 4in						406332-005			
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	3	2	4	10	22	31	39	57	72	81	83	84
	KCl Cond PSE	2	3	5	11	26	30	40	56	70	76	77	79
	1st Dust Load PSE	8	19	27	40	49	61	71	88	96	99	100	100
	2nd Dust Load PSE	20	26	36	52	65	73	82	93	98	100	100	100
	3rd Dust Load PSE	23	30	42	59	74	79	88	96	99	100	100	100
4th Dust Load PSE	29	26	36	50	66	80	86	91	97	100	100	100	
Composite Min PSE	2	2	4	10	22	30	39	56	70	76	77	79	

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	4.90E+05	589	288462750	
Large Particle Concentration (Particles/cm ³)	Ratio Small to Large (>20,000)	Conditioning ΔP (inWG)	Same duct?	
23	21,293	Initial ΔP	Final ΔP	No
		0.25	0.26	



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

Date:	11/28/2018			Test Number:			181127_590						
Manufacturer				Filter Model						Filter Part Number			
Camfil				30/30 Dual 9 4in						406332-005			
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	3	2	4	10	22	31	39	57	72	81	83	84
	1st KCI Cond PSE	2	3	5	11	26	30	40	56	70	76	77	79
	2nd KCI Cond PSE	3	3	6	12	24	29	37	55	70	73	76	76
	3rd KCI Cond PSE												
	4th KCI Cond PSE												
	5th KCI Cond PSE												
	Final KCI Cond PSE	3	3	6	12	24	29	37	55	70	73	76	76

KCI Conditioning Particle Size Efficiency

