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 Vancouver, WA 98661
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Test Date	Report Number
1/12/2021	21F0019

ASHRAE Standard 52.2-2017
Test Report
Initial Efficiency / Resistance

DEVICE DESCRIPTION

Supplier:	Rohner Finishing Systems
Product Name:	3rd Stage NESHAP 319 Filter
Supplier Part #:	COFL-NEPKDMS-20-20-12-I
Generic Name:	Pocket Filter
Dimensions (HxWxD):	20 x 20 x 12
Number of Pleats	5 PKT
Media Type:	NA
Media Area (ft ²):	NA
Media Color:	Gold & Yellow
Sample Obtained From:	Kenosha
Other Attributes:	

TEST RESULTS

MERV 15			Initial Resistance (in WC):	0.62
@ 900 cfm				
E1: 94	PM1 _{52.2}	94	Dust Loading	
E2: 99	PM2.5 _{52.2}	96	DHC (g):	N/A
E3: 100	PM10 _{52.2}	98	Avg. Arr. (%):	N/A

*ESTIMATED MERV ASSUMES INITIAL FRACTIONAL EFFICIENCY IS MINIMUM

TEST PARAMETERS

Airflow Rate (cfm):	900	Final ΔP (inH ₂ O):	NA
Temperature (°F):	72	Type of Aerosol:	KCl
RH (%):	45	Loading Dust Type:	N/A
Pressure ("Hg):	29.73		
Particle Counters: TSI Incorporated Shoreview, MN 3330 Optical Particle Sizer, 12 Channels			

OTHER TEST INFORMATION

Test Requested By:
 Matt Wilson

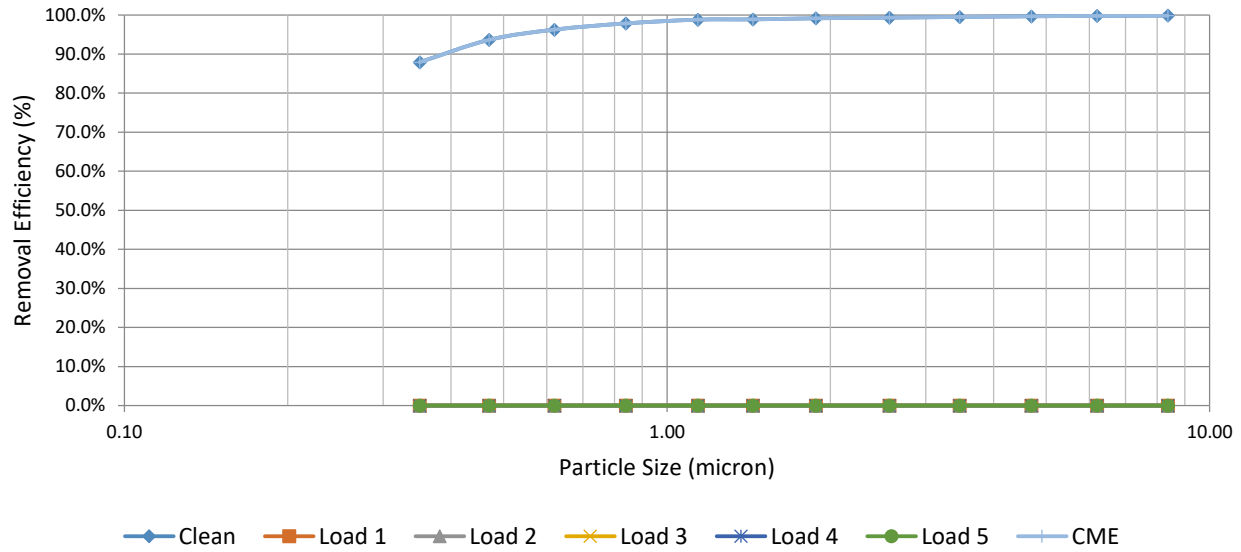
Test Performed By:
 Mike Slater

Approved By:
 Phil Winters

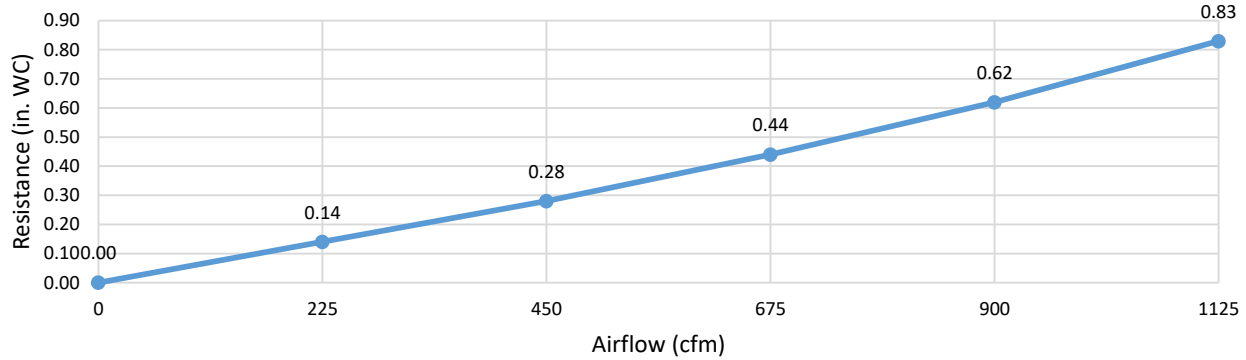
Rev. Date:11/19/2020



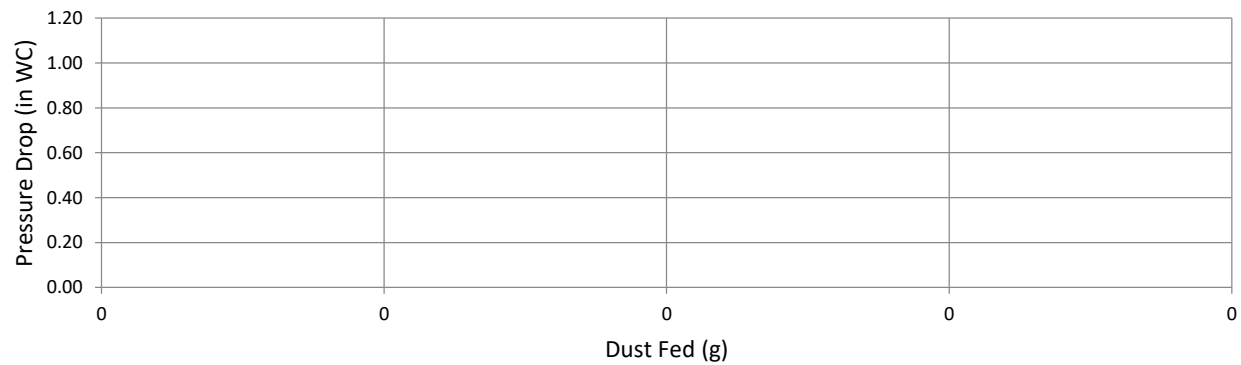
Particle Size Removal Efficiency



Resistance vs Airflow (Clean)



Pressure Drop vs Dust Fed



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Size Range (μm)	Mean Diam (μm)	Particle Removal Efficiency %						
		CME	Clean	Load 1	Load 2	Load 3	Load 4	Load 5
0.30-0.40	0.35	88%	87.9%					
0.40-.055	0.47	94%	93.7%					
0.55-0.70	0.62	96%	96.3%					
0.70-1.00	0.84	98%	97.9%					
1.00-1.30	1.14	99%	98.8%					
1.30-1.60	1.44	99%	98.9%					
1.60-2.20	1.88	99%	99.2%					
2.20-3.00	2.57	99%	99.3%					
3.00-4.00	3.46	100%	99.5%					
4.00-5.50	4.69	100%	99.7%					
5.50-7.00	6.20	100%	99.8%					
7.00-10.0	8.37	100%	99.8%					
Resistance after Dust Load (in. WC)			0.62					
Dust Load (g)			0					
Arrestance (%)								

Resistance vs Airflow (Clean)

Airflow (cfm)	Resistance (in. WC)
0	0.00
225	0.14
450	0.28
675	0.44
900	0.62
1125	0.83

Dust Loading Release Rate

Size Range (μm)	Mean Diam (μm)	Release Rate Load 1	Release Rate Load 2	Release Rate Load 3	Release Rate Load 4	Release Rate Load 5
0.30-0.40	0.35					
0.40-.055	0.47					
0.55-0.70	0.62					
0.70-1.00	0.84					
1.00-1.30	1.14					
1.30-1.60	1.44					
1.60-2.20	1.88					
2.20-3.00	2.57					
3.00-4.00	3.46					
4.00-5.50	4.69					
5.50-7.00	6.20					
7.00-10.0	8.37					