AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road • Buckner, Kentucky 40010

Phone (502) 222-5720 • Fax (502) 222-9881

ASHRAE STANDARD 52.2-2012
REMOVAL EFFICIENCY BY PARTICLE SIZE (0.3 to 10.0 µm; KCl)

REPORT NO.
14170

TEST NO.
1

SHEET NO.
1

DEVICE TESTED

Test Requested By	**JANFORD AIR FLOW CO., LTD.**
Manufacturer	**JANFORD AIR FLOW CO., LTD.**
Test Sample Procurement	**FURNISHED BY MANUFACTURER**
Product Name	**ALUMINUM PANEL FILTER**
Brand Name	
Model No.	
Dimensions	**610 mm H X 610 mm W X 25 mm D (NOMINAL)**

DEVICE DESCRIPTION

Generic Device Classification / Type	**PANEL FILTER**	
Number Of Pleats / Pockets	**N/A**	no.
Number Of Banks	**N/A**	no.
Face Dimension (Nom. Height)	**610**	mm H
Face Dimension (Nom. Width)	**610**	mm W
Depth Dimension (Nom. Depth)	**25**	mm D
Media Area (Net Effective)	**0.37**	m^2
Type Of Media	**ALUMINUM**	
Type And Amount Of Adhesive	**NONE**	
Product Description		

DATE
12-14-2015

TEST SUPERVISOR
M.A.M.

ADMINISTRATIVE APPROVAL

TEST CONDITIONS

Test Airflow Rate	**3346**	m^3/hr
Test Aerosol Type	**KCl**	
Test Dust Type	**ASHRAE**	
Test Dust Feed Rate	**71.0**	mg/m^3
Device Test Section Duct Size	**610 x 610**	mm
Final Device Resistance	**250**	Pa
Air Temperature	**23.0**	°C
Relative Humidity	**50**	%
Optical / Aerodynamic Particle Counter(s); OPC / APC	**CLIMET INST. / CI-500 (laser)**	
Notes		

TEST RESULTS - see attached performance curves

Initial Device Resistance			**33**	Pa
Final Device Resistance			**250**	Pa
Composite Average Minimum Efficiencies	E1 (0.3 - 1.0 µm)	E2 (1.0 - 3.0 µm)	E3 (3.0 - 10.0 µm)	%
	4	**9**	**32**	
Minimum Efficiency Reporting Value (MERV	**MERV 5 @ 3346 m^3/hr**			
Average ASHRAE Dust Weight Arrestance			**64**	%
ASHRAE Dust Holding Capacity			**98**	g

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PERFORMANCE CURVES

REPORT NO.
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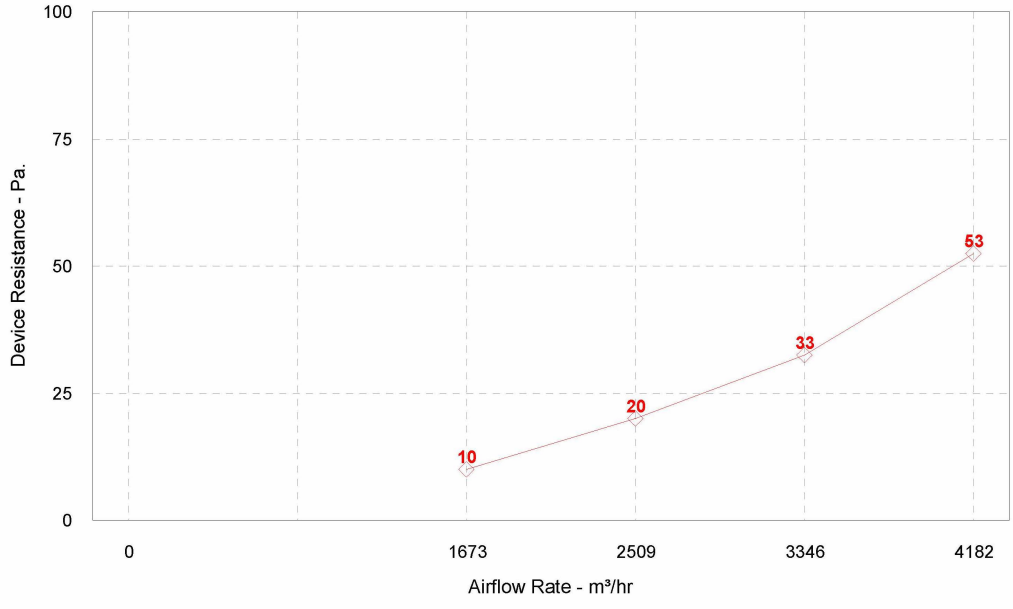
TEST SUPERVISOR
M.A.M.

ADMINISTRATIVE
APPROVAL

Michael A. Murphy

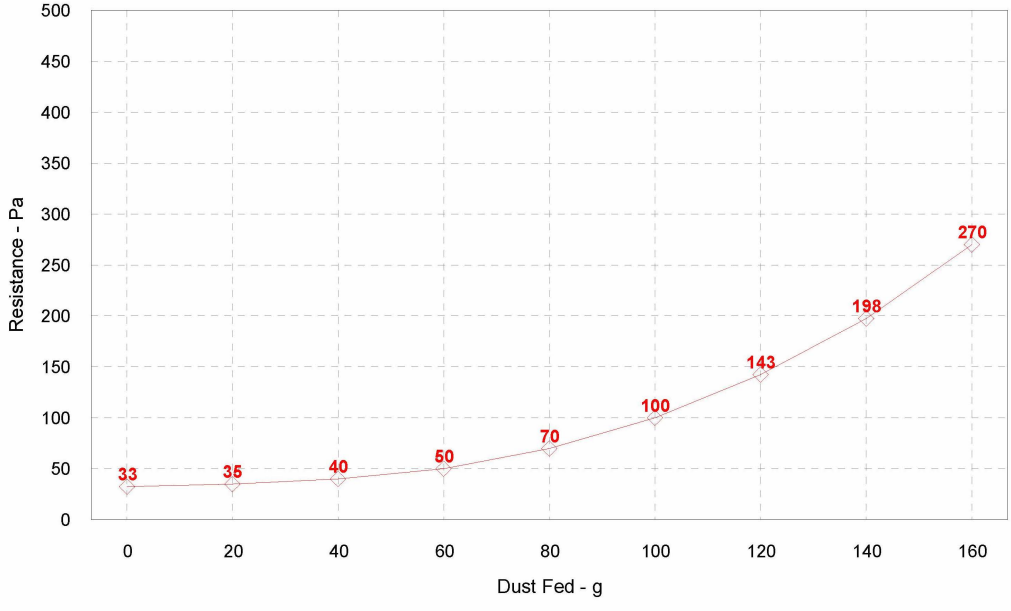
CLEAN DEVICE

Airflow Rate -vs- Initial Device Resistance



DUST FED -vs- RESISTANCE

Dust Increment - 20 g ASHRAE



PERFORMANCE CERTIFIED
INDEPENDENT CERTIFICATION AFTL, INC. EST. 1970
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ASHRAE STANDARD 52.2-2012 - PERFORMANCE CURVES
REMOVAL EFFICIENCY BY PARTICLE SIZE (0.3 to 10.0 µm; KCl)

PERFORMANCE CURVES

REPORT NO.
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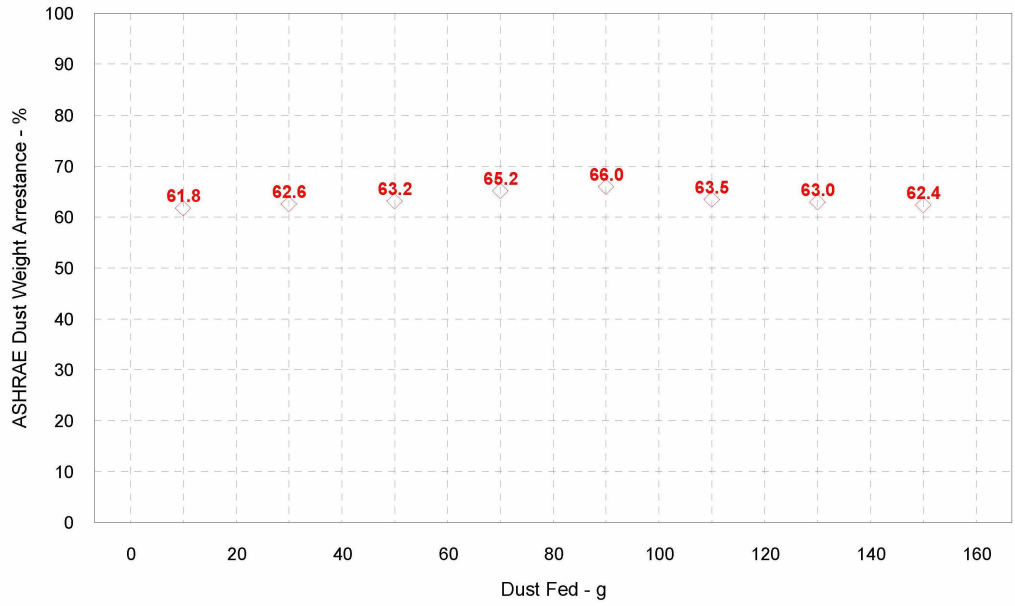
M.A.M.

ADMINISTRATIVE
APPROVAL

Michael A. Murphy

DUST FED -vs- ARRESTANCE

Dust Increment - 20 g ASHRAE



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PERFORMANCE CURVES

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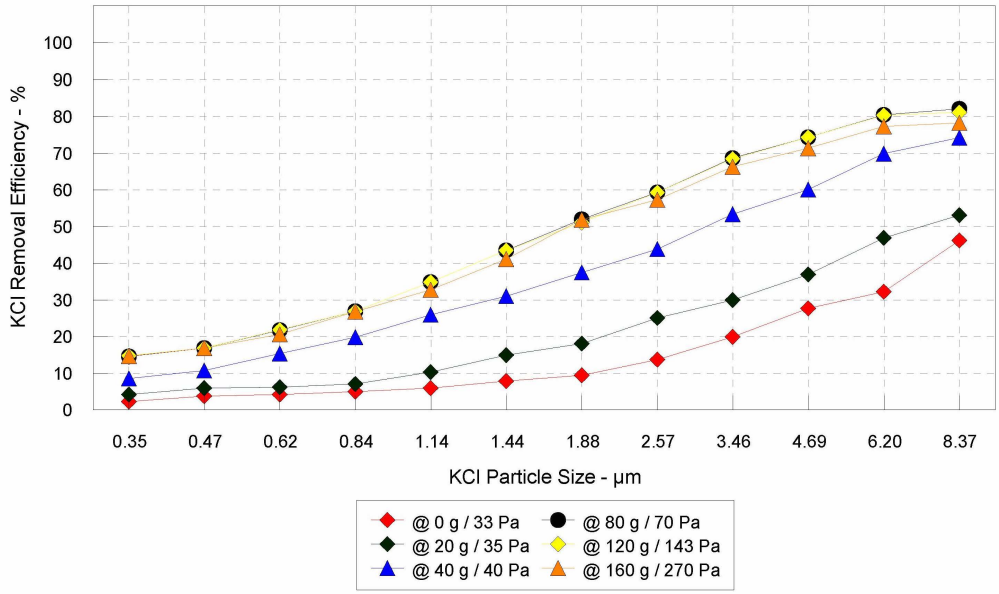
12-14-2015

TEST SUPERVISOR
M.A.M.

ADMINISTRATIVE
APPROVAL

PARTICLE SIZE -vs- REMOVAL EFFICIENCY

Incremental KCl Particle Size Removal Efficiency



PARTICLE SIZE -vs- REMOVAL EFFICIENCY

Composite Minimum KCl Particle Size Removal Efficiency