



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; KCI)

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 50 mm D (NOMINAL)

REPORT NO.
14171

TEST NO.
1

SHEET NO.
1

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)	50	mm D
Media Area (Net Effective)	0.37	m ²
Type Of Media	ALUMINUM	
Type And Amount Of Adhesive	NONE	
Product Description		

TEST CONDITIONS

Test Airflow Rate	3346	m ³ /hr
Test Aerosol Type	KCI	
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		

DATE
12-18-2015

TEST SUPERVISOR
M.A.M.

ADMINISTRATIVE APPROVAL

Michael A. Murphy

TEST RESULTS - see attached performance curves

Initial Device Resistance	55			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)	%
	3	9	29	
Minimum Efficiency Reporting Value (MERV)	MERV 5 @ 3346 m³/hr			
Average ASHRAE Dust Weight Arrestance	71			%
ASHRAE Dust Holding Capacity	185			g





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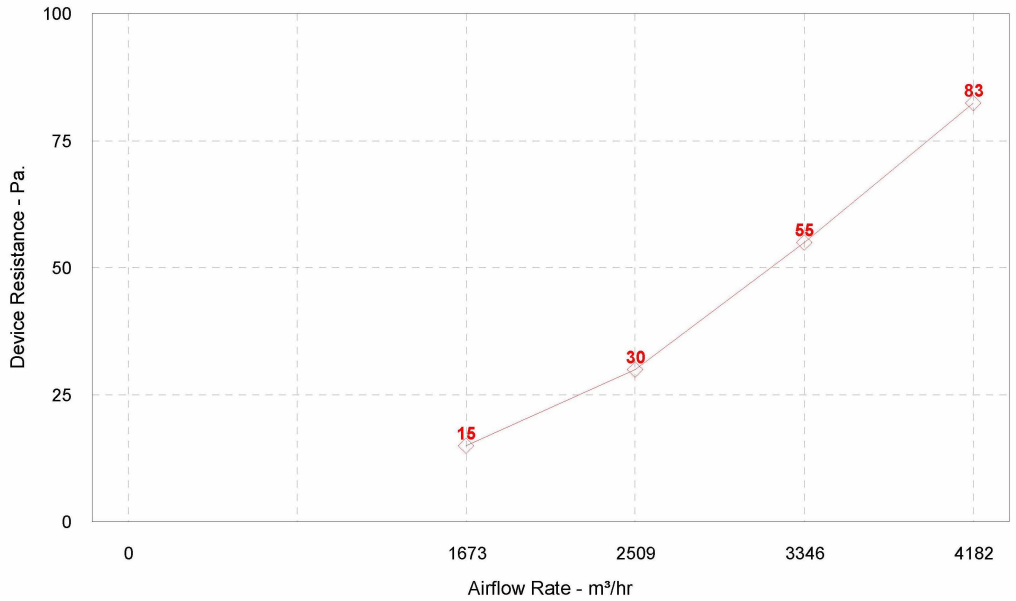
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PERFORMANCE CURVES

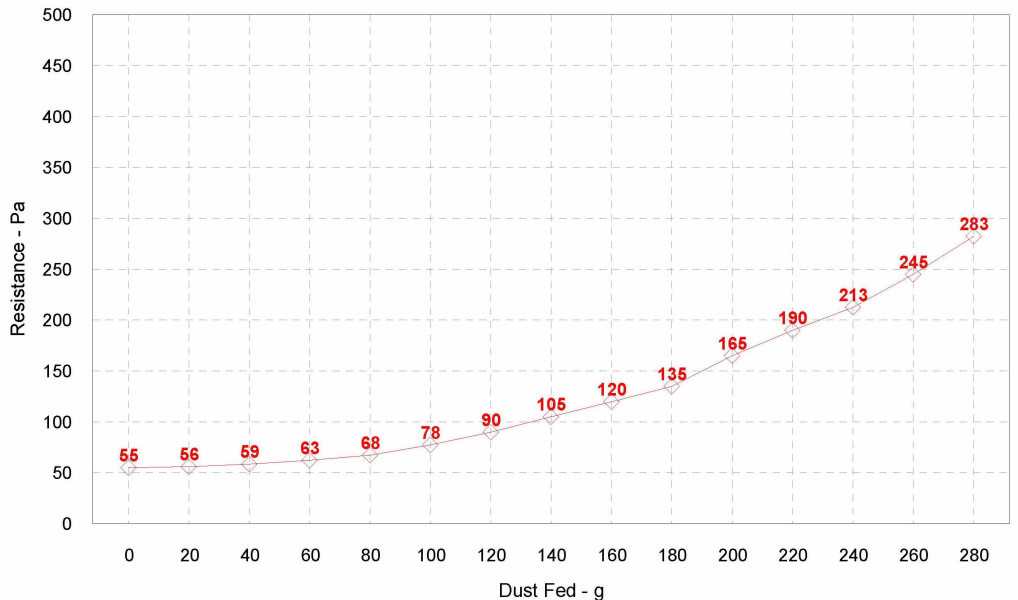
CLEAN DEVICE

Airflow Rate -vs- Initial Device Resistance



DUST FED -vs- RESISTANCE

Dust Increment - 20 g ASHRAE



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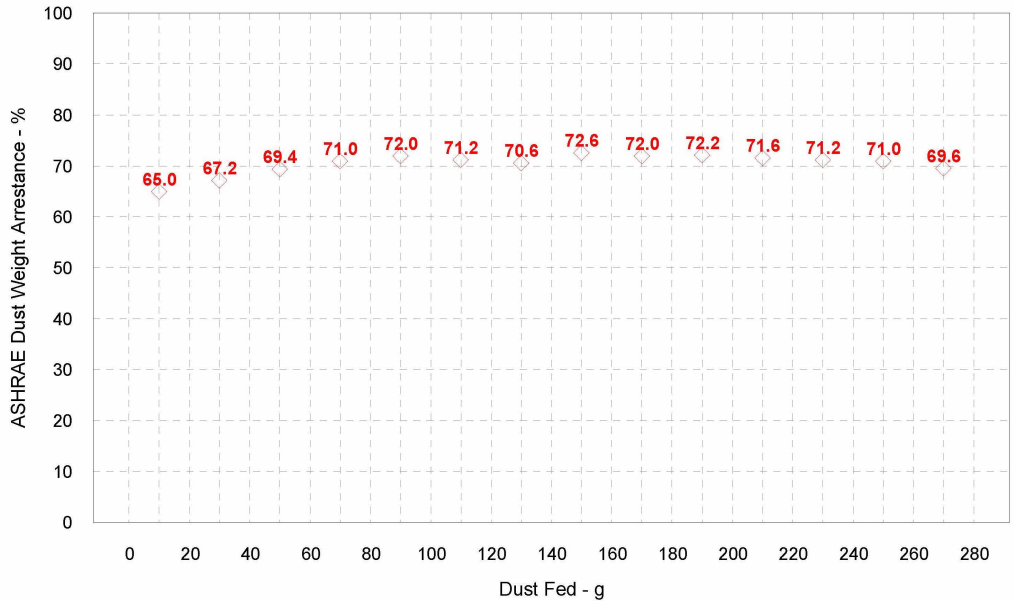
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ASHRAE STANDARD 52.2-2012 - PERFORMANCE CURVES REMOVAL EFFICIENCY BY PARTICLE SIZE (0.3 to 10.0 μm ; KCI)

PERFORMANCE CURVES

DUST FED -vs- ARRESTANCE

Dust Increment - 20 g ASHRAE



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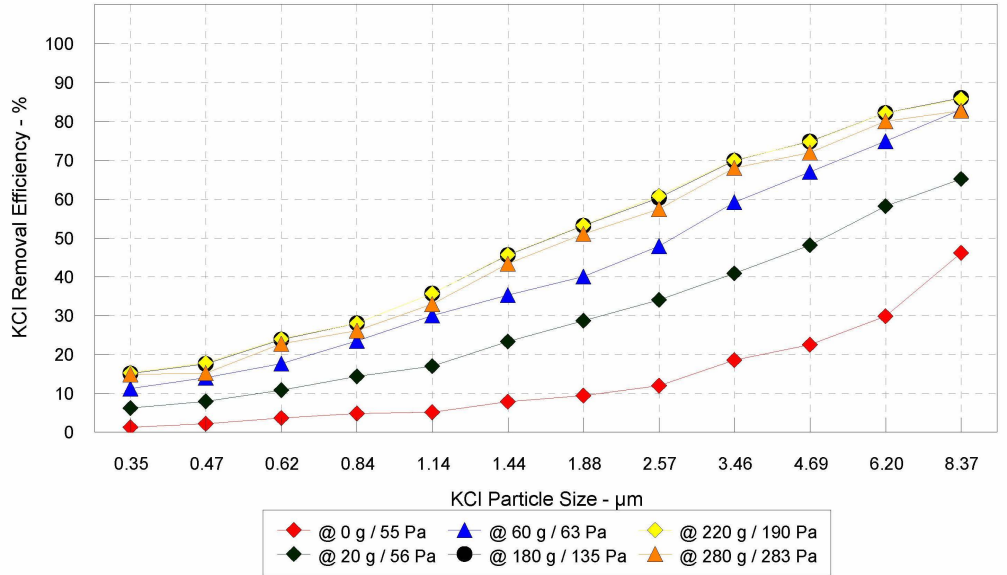
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SHEET NO.

4

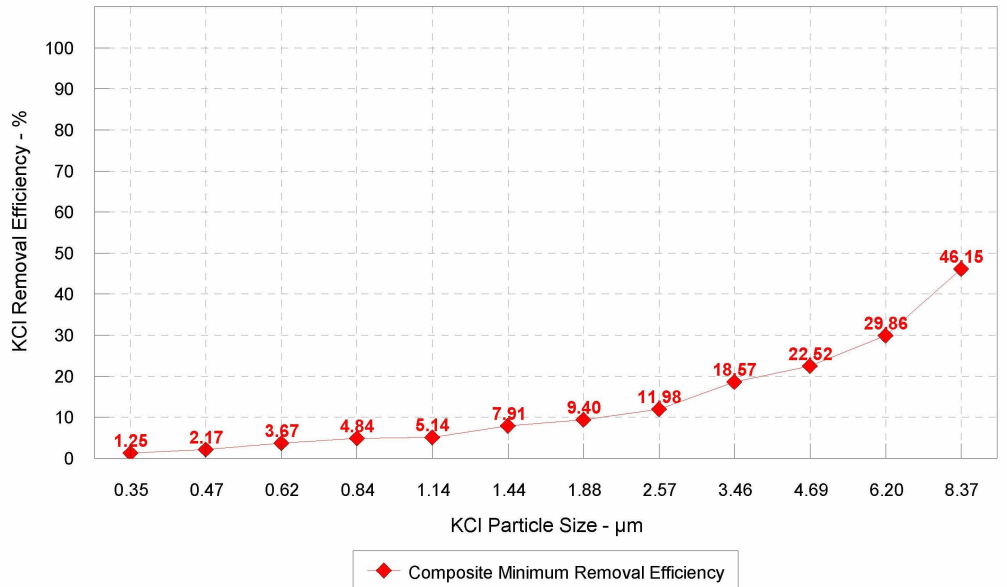
PARTICLE SIZE -vs- REMOVAL EFFICIENCY

Incremental KCI Particle Size Removal Efficiency



PARTICLE SIZE -vs- REMOVAL EFFICIENCY

Composite Minimum KCI Particle Size Removal Efficiency



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