AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road • Buckner, Kentucky 40010
Phone (502) 222-5720 • Fax (502) 222-9881

ASHRAE STANDARD 52.2-1999
REMOVAL EFFICIENCY BY PARTICLE SIZE (0.3 to 10.0 μm; KCl)

REPORT NO.
12437

TEST NO.
1

SHEET NO.
1

DEVICE TESTED

Test Requested By	VISKON-AIRE CORP.
Manufacturer	VISKON-AIRE CORP.
Test Sample Procurement	FURNISHED BY MANUFACTURER
Product Name	AS-45%
Model No.	448-002
Dimensions	610 mm H X 610 mm W X 762 mm D (NOMINAL)

DEVICE DESCRIPTION

Generic Device Classification / Type	EXTENDED SURFACE POCKET	
Number Of Pleats / Pockets	8	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)	762	mm D
Media Area (Net Effective)	0.71	m²
Type Of Media	SYNTHETIC (AS-40-45%)	
Type And Amount Of Adhesive	NONE	
Product Description		

TEST CONDITIONS

Test Airflow Rate	3400	m³/hr
Test Aerosol Type	KCl	
Test Dust Type	ASHRAE	
Test Dust Feed Rate	71.0	mg/m³
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)	
Remarks/ Note		

DATE
03-22-2002

TEST SUPERVISOR
J.P.S.

ADMINISTRATIVE APPROVAL
Michael L Murphy

TEST RESULTS - see attached performance curves

Initial Device Resistance			53	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)	%
	23	54	79	
Minimum Efficiency Reporting Value (MERV		MERV 8 @ 3400 m³/hr		
Average ASHRAE Dust Weight Arrestance			N/A	%
ASHRAE Dust Holding Capacity			N/A	g

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ASHRAE STANDARD 52.2-1999 - PERFORMANCE CURVES
REMOVAL EFFICIENCY BY PARTICLE SIZE (0.3 to 10.0 μm; KCl)

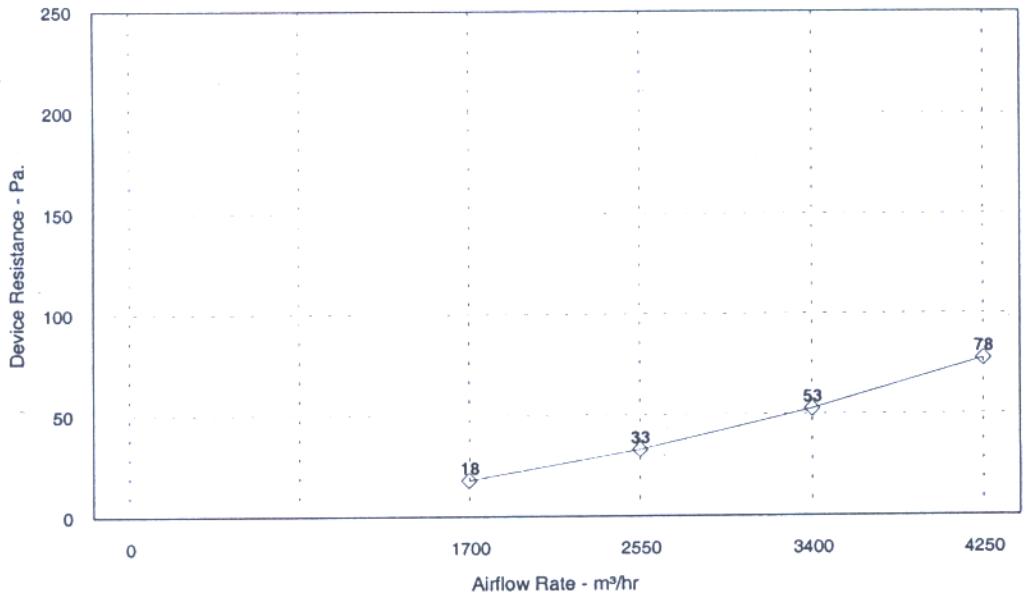
PERFORMANCE CURVES

REPORT NO.
12437

TEST NO.
1

SHEET NO.
2

CLEAN DEVICE
Airflow Rate -vs- Initial Device Resistance



DATE
03-22-2002

TEST SUPERVISOR
J.P.S.

ADMINISTRATIVE
APPROVAL
Michael L. Murphy

PERFORMANCE CERTIFIED
INDEPENDENT CERTIFICATION
AFTL, INC.
EST. 1970
AIR FILTER TESTING LABORATORIES, INC.

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PERFORMANCE CURVES

REPORT NO.
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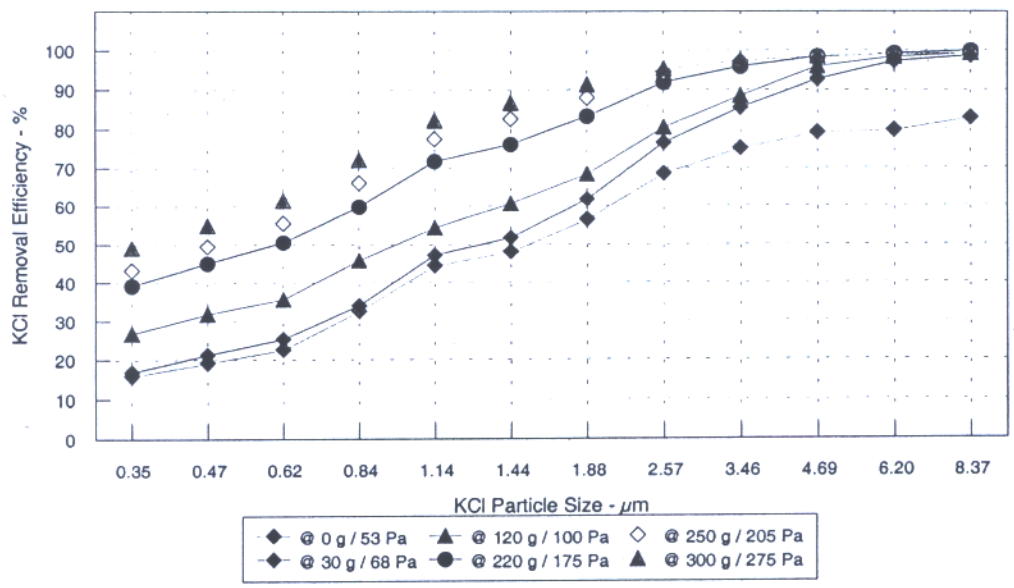
PARTICLE SIZE -vs- REMOVAL EFFICIENCY
Incremental KCl Particle Size Removal Efficiency



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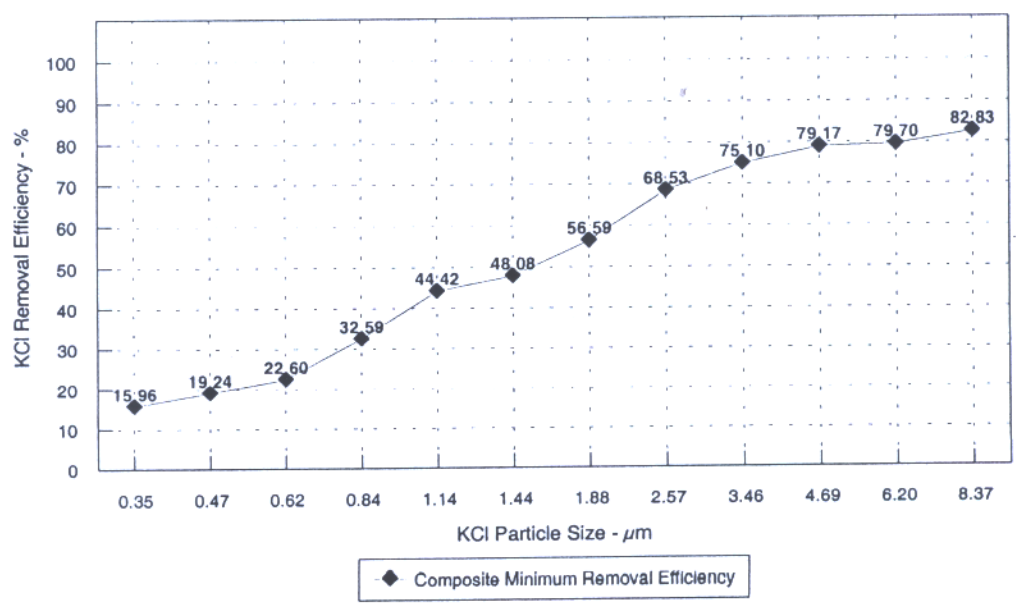
ADMINISTRATIVE
APPROVAL

PARTICLE SIZE -vs- REMOVAL EFFICIENCY
Composite Minimum KCl Particle Size Removal Efficiency



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