



AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road • Crestwood, Kentucky 40014

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

ASHRAE STANDARD 52.1-1992 STATICALLY TESTED DEVICES

DEVICE TESTED

REPORT NO.
11491

TEST NO.
1

SHEET NO.
1

Test Requested By	PERMATRON CORP.
Manufacturer	PERMATRON CORP.
Test Sample Procurement	FURNISHED BY MANUFACTURER
Product Name	INDUSTRIAL
Model No.	IN-HB
Dimensions	24 IN. H X 24 IN. W X 1 IN. D (NOMINAL)
Product Description	

TEST RESULTS - see specifications for performance curves

Test Airflow Rate	2000	ft ³ /min (cfm)
Initial Resistance	0.25	in. w.g.
Final Resistance	1.00	in. w.g.
Initial Atmospheric Dust Spot Efficiency	< 20	%
Average Atmospheric Dust Spot Efficiency	< 20	%
Average ASHRAE Dust Weight Arrestance	72	%
ASHRAE Dust Holding Capacity	113	g

Test Section Duct Size	24.0 x 24.0	in
Test Dust	ASHRAE	
Test Dust Feed Rate	2.0	g/1000 ft ³

PHYSICAL

Face Dimension (Nom. Height)	24.00	in. H
Face Dimension (Nom. Width)	24.00	in. W
Depth Dimension (Nom. Depth)	1.00	in. D
Media Area (Gross)	4.0	ft ²
Media Area (Net Effective)	3.6	ft ²
Inlet Open Area (IOA)	3.67	ft ²
Type Of Media	POLYPROPYLENE	
Type And Amount Of Dust Adhesive	NONE	

DATE
12-06-1999

TEST SUPERVISOR
J.P.S.

ENGINEERING
APPROVAL

Kevin R. Singer P.E.





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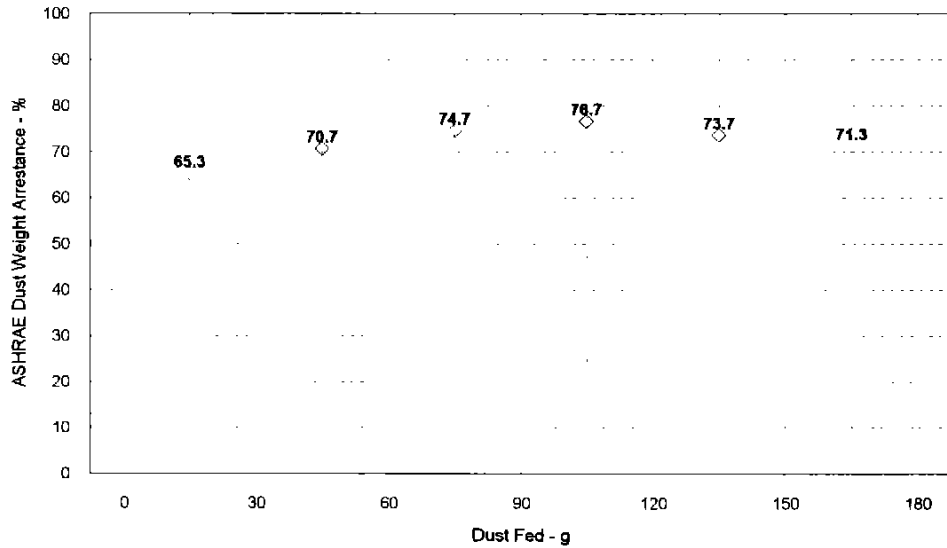
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ASHRAE STANDARD 52.1-1992 - PERFORMANCE CURVES STATICALLY TESTED DEVICES

PERFORMANCE CURVES

DUST FED -vs- ARRESTANCE

Dust Increment - 30 g ASHRAE



REPORT NO.
11491

TEST NO.
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SHEET NO.
3

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PERFORMANCE CURVES

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TEST NO.

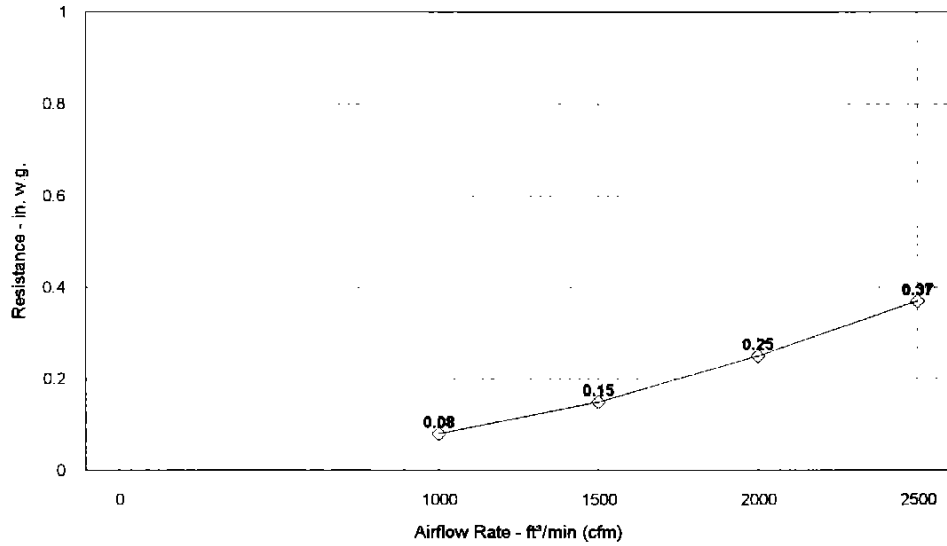
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SHEET NO.

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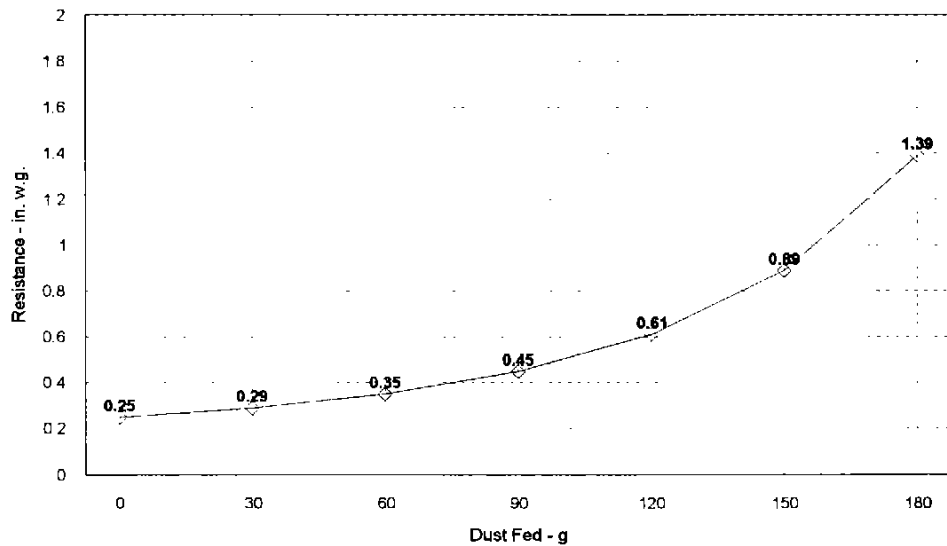
CLEAN DEVICE

Airflow -vs- Initial Resistance



DUST FED -vs- RESISTANCE

Dust Increment - 30 g ASHRAE



DATE

12-06-1999

TEST SUPERVISOR

J.P.S.

ENGINEERING

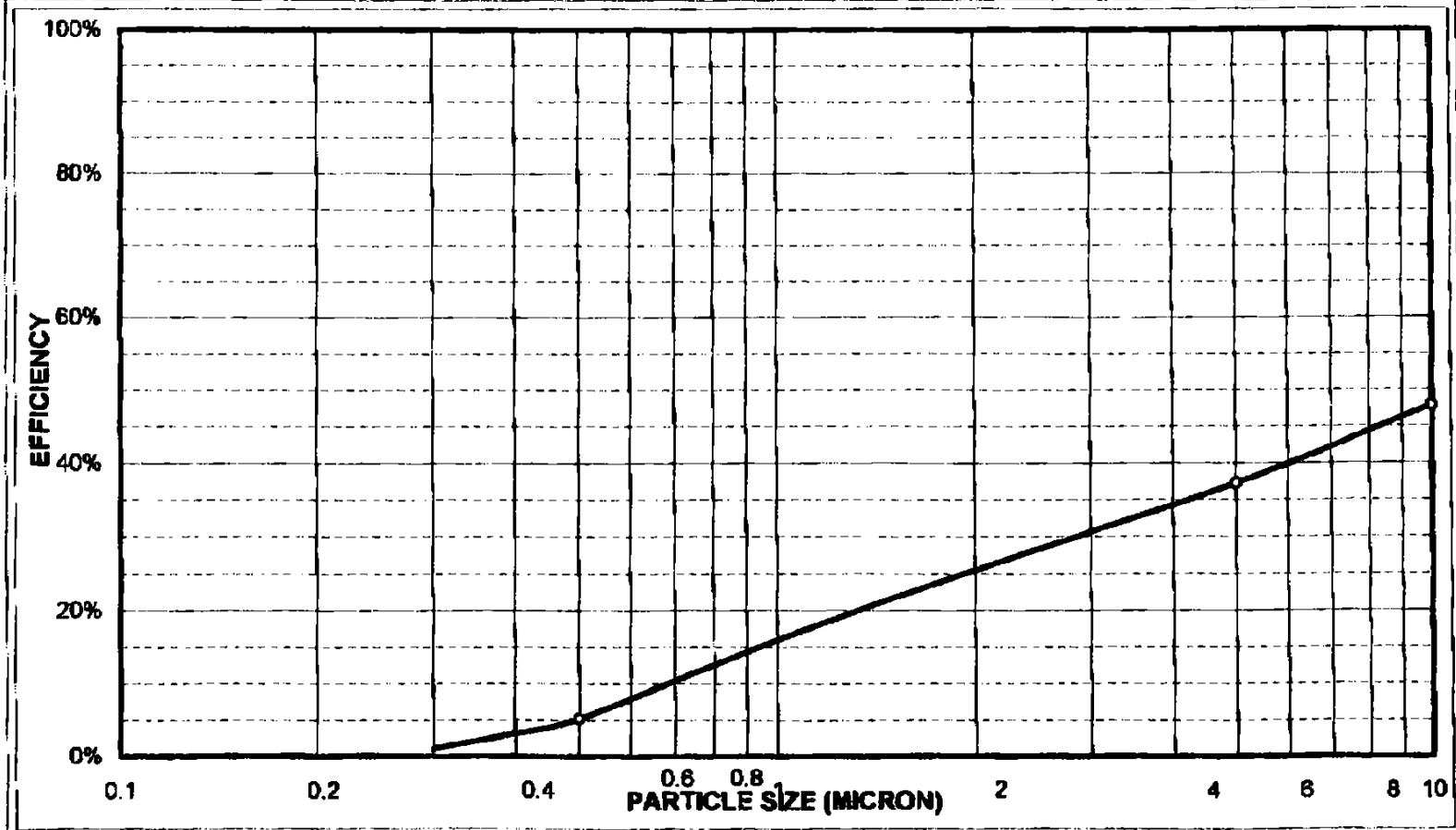
APPROVAL

Kevin R. Singer, P.E.



NOV-13-96 THU 1:36 PM ENHANCED FILTER CO. FAX NO. 8056421207 P. 4

Customer: PERMATRON CORP. <i>IN-</i>		
Date: 11/12/96	Test Performed By: Rick L. Chapman EFCO 805-642-2079	
Temp. 64.2F	Product Name: Permatron Commercial and Industrial 2 inch Electro-Static filter	
Humidity: 56%	Test Velocity: 500 ft/min.	Resistance: 0.34 in. W.G.
PARTICLE SIZE (MICRON)	EFFICIENCY (%)	Note
0.3	1.0%	
0.5	5.2%	
5	37.2%	
10	47.8%	



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