



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.
10050

TEST NO.
1

SHEET NO.
1

Test Requested By	PERMATRON CORPORATION
Manufacturer	PERMATRON CORPORATION
Test Sample Procurement	FURNISHED BY MANUFACTURER
Product Name	MODEL R 12 MIL
Model No.	
Dimensions	24 IN. H X 24 IN. W X 1/4 IN. D (NOMINAL)
Product Description	

TEST RESULTS - see attached performance curves

Test Airflow Rate	1200	ft ³ /min (cfm)
Initial Resistance	0.020	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	42	%
ASHRAE Dust Holding Capacity	67	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 DESCRIPTION

Face Dimension (Nom. Height)	24.00	in. H
Face Dimension (Nom. Width)	24.00	in. W
Depth Dimension (Nom. Depth)	0.25	in. D
Media Area (Gross)	4.0	ft ²
Media Area (Net Effective)	3.9	ft ²
Inlet Open Area (IOA)	3.90	ft ²
Type Of Media	12 MIL POLYPROPYLENE	
Type And Amount Of Dust Adhesive	NONE	

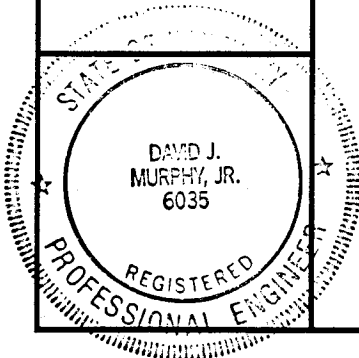
DATE

05-22-1997

TEST SUPERVISOR
J.P.S.

ENGINEERING
APPROVAL

David J. Murphy, Jr.





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ASHRAE STANDARD 52.1-1992 - PERFORMANCE CURVES STATICALLY TESTED DEVICES

PERFORMANCE CURVES

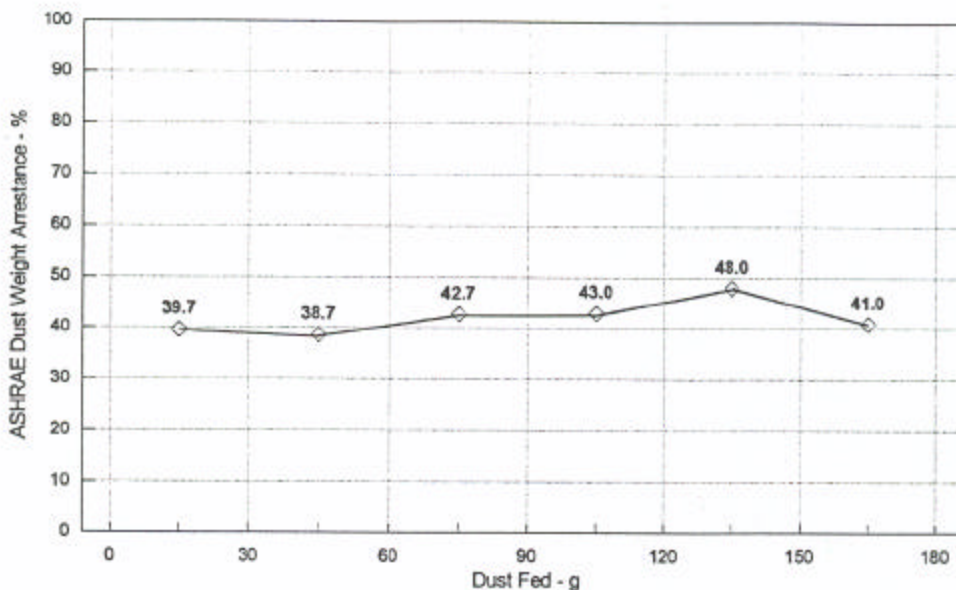
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3

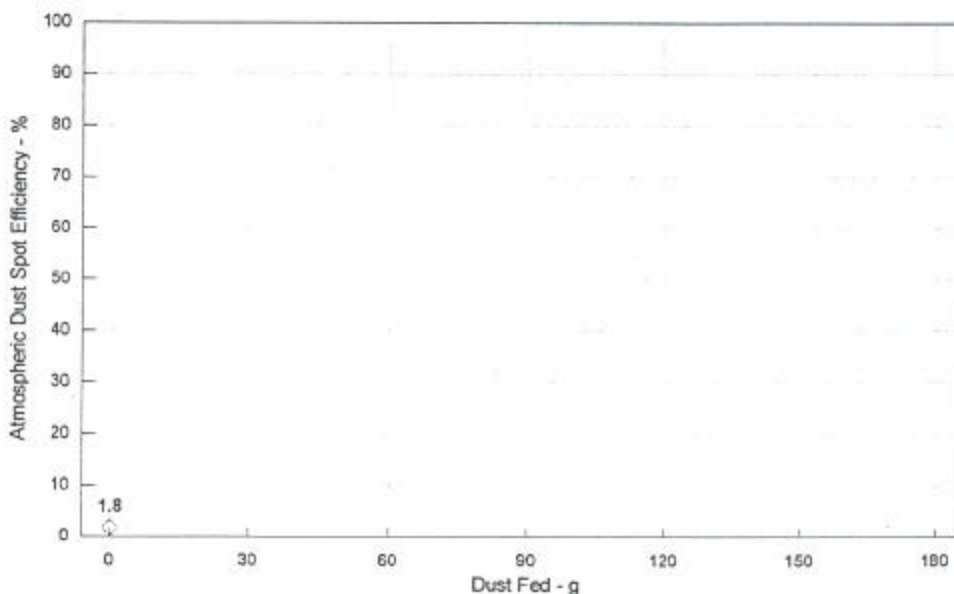
DUST FED -vs- ARRESTANCE

Dust Increment - 30 g ASHRAE



DUST FED -vs- ATMOS. DUST SPOT EFFICIENCY

Dust Increment - 30 g ASHRAE



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PERFORMANCE CURVES

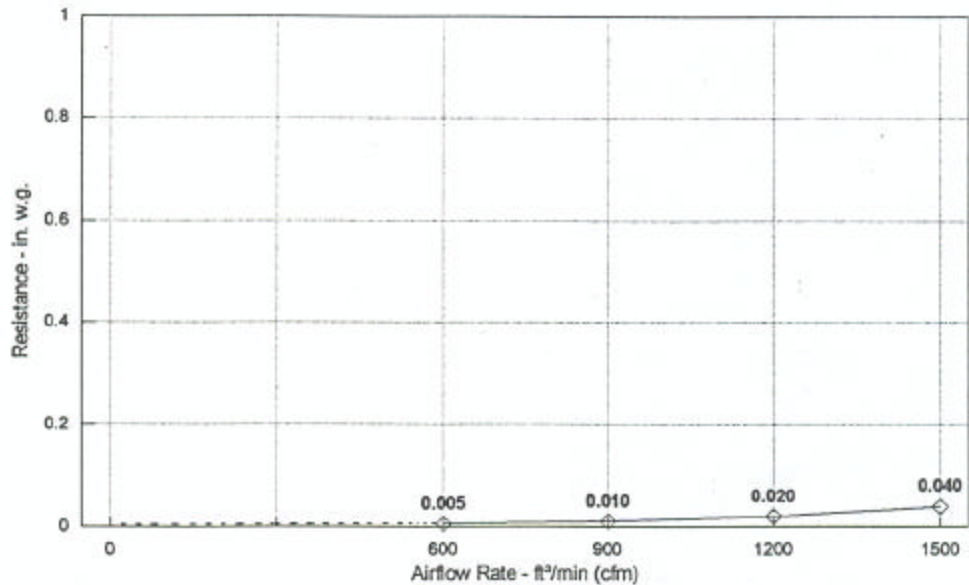
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SHEET NO.
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CLEAN DEVICE

Airflow -vs- Initial Resistance



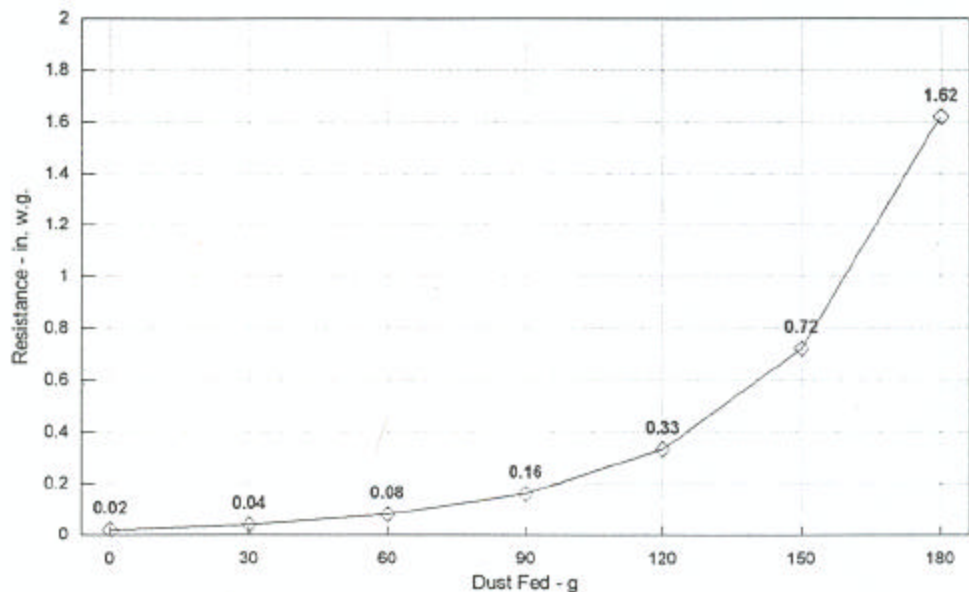
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DUST FED -vs- RESISTANCE

Dust Increment - 30 g ASHRAE



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