



AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road • Buckner, Kentucky 40010

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

ASHRAE STANDARD 52.1-1992 STATICALLY TESTED DEVICES

DEVICE TESTED

REPORT NO.

12283

TEST NO.

1

SHEET NO.

1

Test Sample Procurement

FURNISHED BY MANUFACTURER

Model No.

24X24X12 95% SYN

Dimensions

24 IN. H X 24 IN. W X 12 IN. D (NOMINAL)

Product Description

TEST RESULTS - see attached performance curves

Test Airflow Rate	2000	ft ³ /min (cfm)
Initial Resistance	0.54	in. w.g.
Final Resistance	1.50	in. w.g.
Initial Atmospheric Dust Spot Efficiency	94.2	%
Average Atmospheric Dust Spot Efficiency	91	%
Average ASHRAE Dust Weight Arrestance	100	%
ASHRAE Dust Holding Capacity	137	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

Number Of Pleats	16	no. pleats
Face Dimension (Nom. Height)	24.00	in. H
Face Dimension (Nom. Width)	24.00	in. W
Depth Dimension (Nom. Depth)	12.00	in. D
Media Area (Gross)	64.0	ft ²
Media Area (Net Effective)	59.7	ft ²
Inlet Open Area (IOA)	4.00	ft ²
Type Of Media	SYNTHETIC	
Type And Amount Of Dust Adhesive	NONE	

DATE

09-21-2001

TEST SUPERVISOR

R.A.S.

ENGINEERING

APPROVAL

Kevin R. Singer, P.E.





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ASHRAE STANDARD 52.1-1992 - PERFORMANCE CURVES STATICALLY TESTED DEVICES

PERFORMANCE CURVES

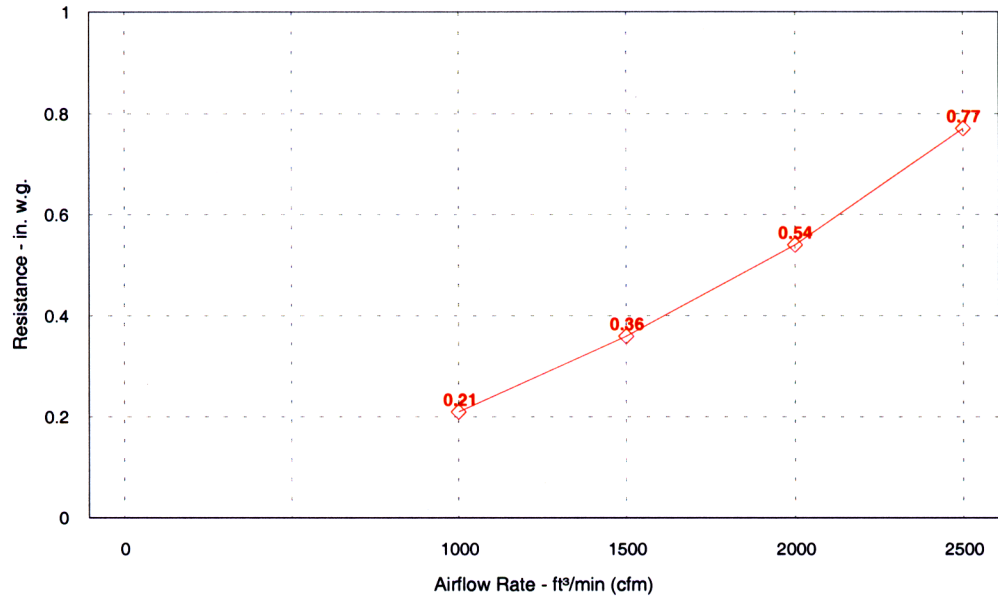
REPORT NO.
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SHEET NO.
2

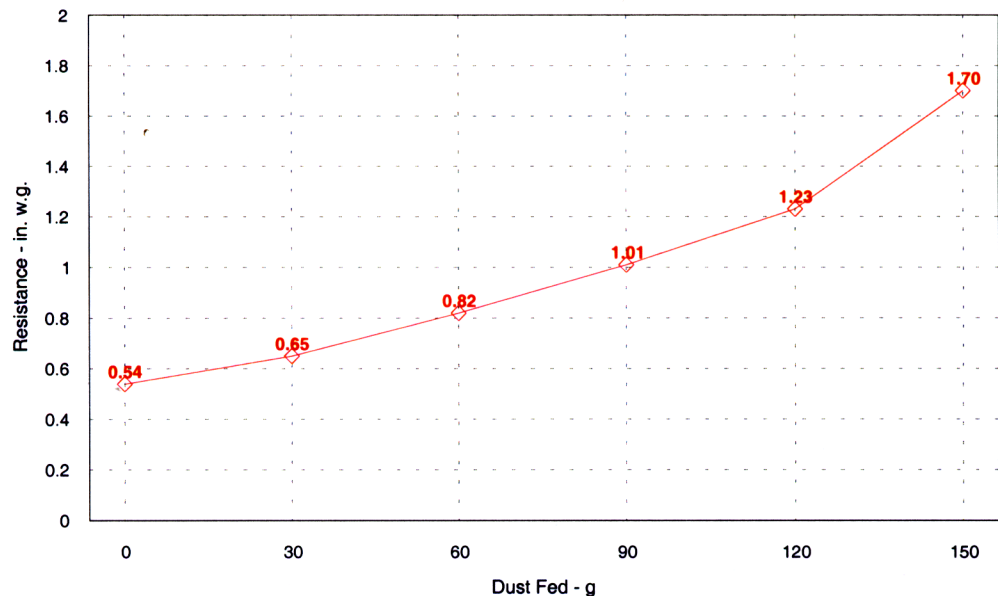
CLEAN DEVICE

Airflow -vs- Initial Resistance



DUST FED -vs- RESISTANCE

Dust Increment - 30 g ASHRAE



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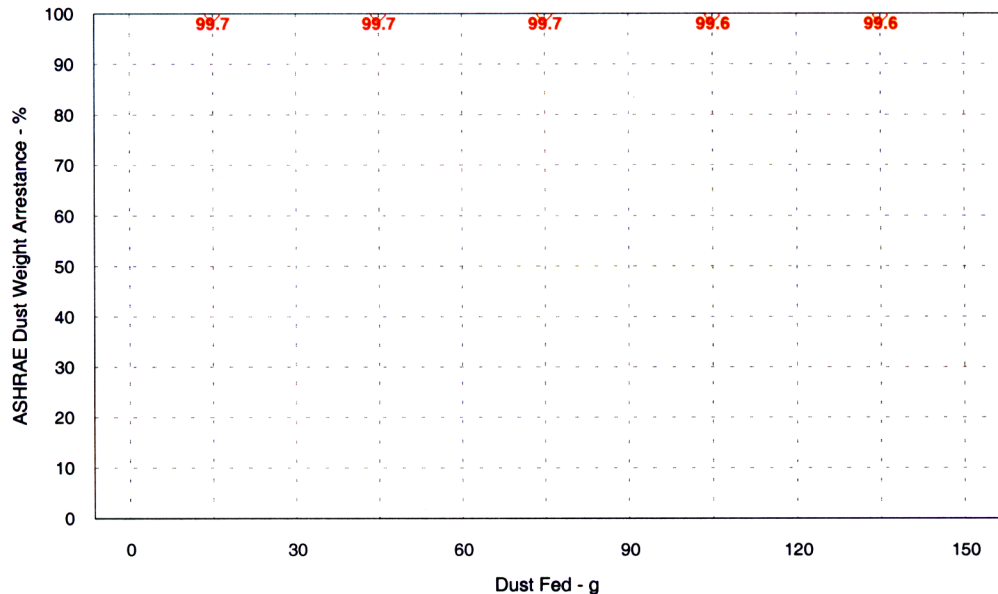
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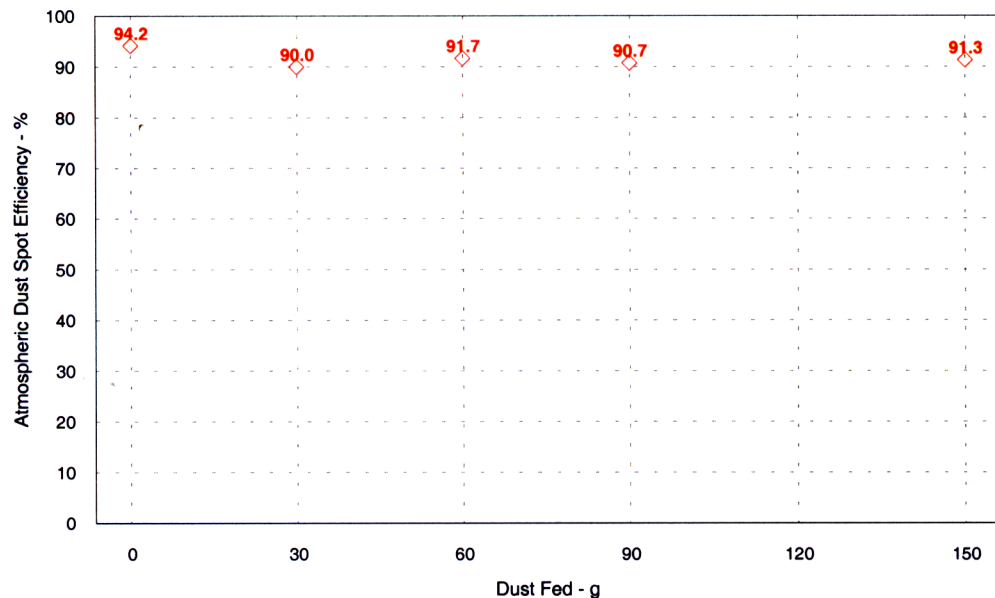
DUST FED -vs- ARRESTANCE

Dust Increment - 30 g ASHRAE



DUST FED -vs- ATMOS. DUST SPOT EFFICIENCY

Dust Increment - 30 g ASHRAE



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