



AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road • Crestwood, Kentucky 40014

ASHRAE AIR FILTER TEST STANDARD 52-76
STATICALLY TESTED DEVICES

DEVICE TESTED

TEST REQUESTED BY PERMATRON CORPORATION
MANUFACTURER PERMATRON CORPORATION
PRODUCT NAME ELECTROSTATIC AIR CLEANER
HOW LABORATORY PROCURED TEST SAMPLE FURNISHED BY MANUFACTURER
MODEL NO. HFA DIMENSIONS 24 IN. H 24 IN. W 1 IN. D

REPORT NO. 5631
TEST NO. 1
SHEET NO. 1

RATED PERFORMANCE DATA FROM MANUFACTURERS CATALOG NO.		DATED	
AIR FLOW CAPACITY			
INITIAL RESISTANCE			
FINAL RESISTANCE			
INITIAL ATMOSPHERIC DUST SPOT EFFICIENCY			
AVERAGE ATMOSPHERIC DUST SPOT EFFICIENCY			
AVERAGE SYNTHETIC DUST WEIGHT ARRESTANCE			
ASHRAE DUST HOLDING CAPACITY			

TEST RESULTS

TEST AIR FLOW RATE	<u>1200</u>			→	<u>CFM</u>
INITIAL RESISTANCE	<u>0.20</u>			→	<u>IN.W.G.</u>
FINAL RESISTANCE					<u>1.00 IN.W.G.</u>
INITIAL ATMOSPHERIC DUST SPOT EFFICIENCY					<u>NR</u>
AVERAGE ATMOSPHERIC DUST SPOT EFFICIENCY					<u>NR</u>
AVERAGE SYNTHETIC DUST WEIGHT ARRESTANCE					<u>89 %</u>
ASHRAE DUST HOLDING CAPACITY					<u>120 GM</u>

TEST SECTION DUCT SIZE 24 IN. X 24 IN. DUST FEEDING RATE 2.0 GM / 1000 CF
SEE BACK SIDE (PAGE 1A) FOR PERFORMANCE CURVES

PHYSICAL DESCRIPTION

FACE DIMENSIONS 24 IN. X 24 IN. Nom.
DEPTH 1 IN. Nom.
MEDIA AREA 3.36 FT²
TYPE MEDIA WOVEN SYNTHETIC
TYPE & AMOUNT ADHESIVE NONE



DATE 4-16-1990 TEST SUPERVISOR J.P.S. ENGINEERING APPROVAL David J. Murphy



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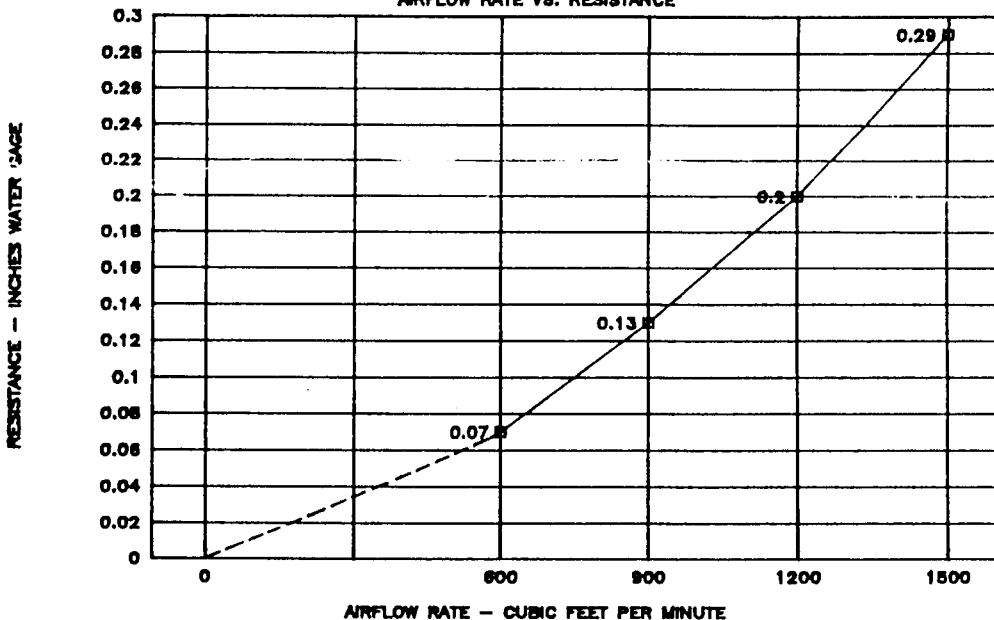
REPORT NO. 5631

TEST NO. 1

SHEET NO. 2

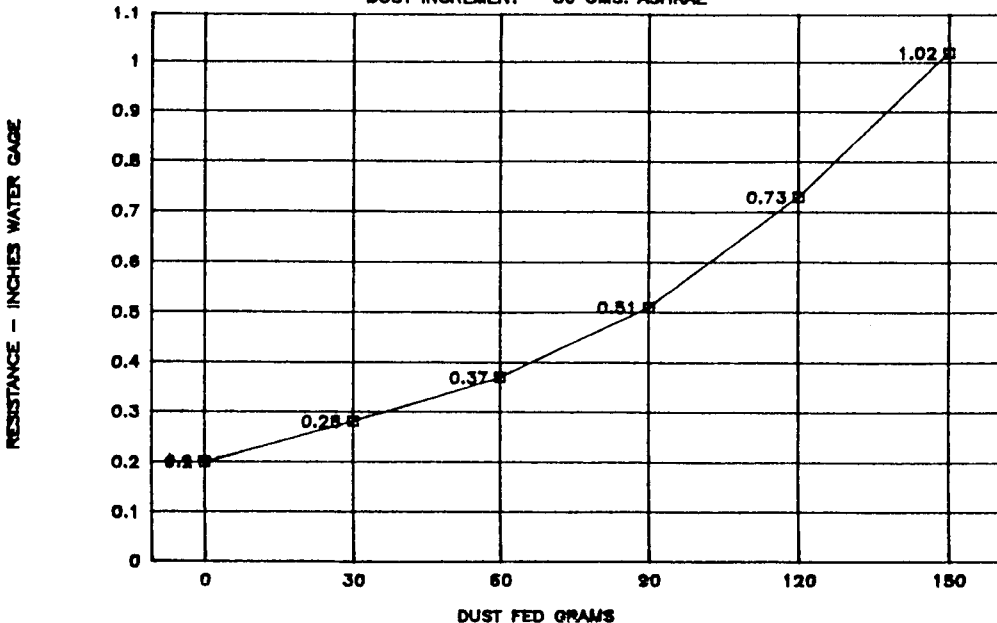
CLEAN DEVICE

AIRFLOW RATE VS. RESISTANCE



DUST FED VS. RESISTANCE

DUST INCREMENT - 30 GMS. ASHRAE



DATE

4-16-1990

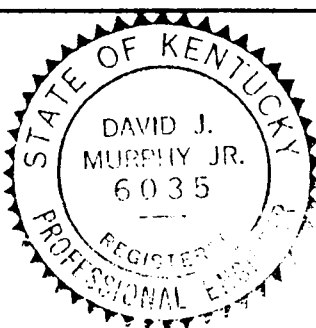
TEST SUPERVISOR

J.P.S.

ENGINEERING

APPROVAL

David J. Murphy Jr.





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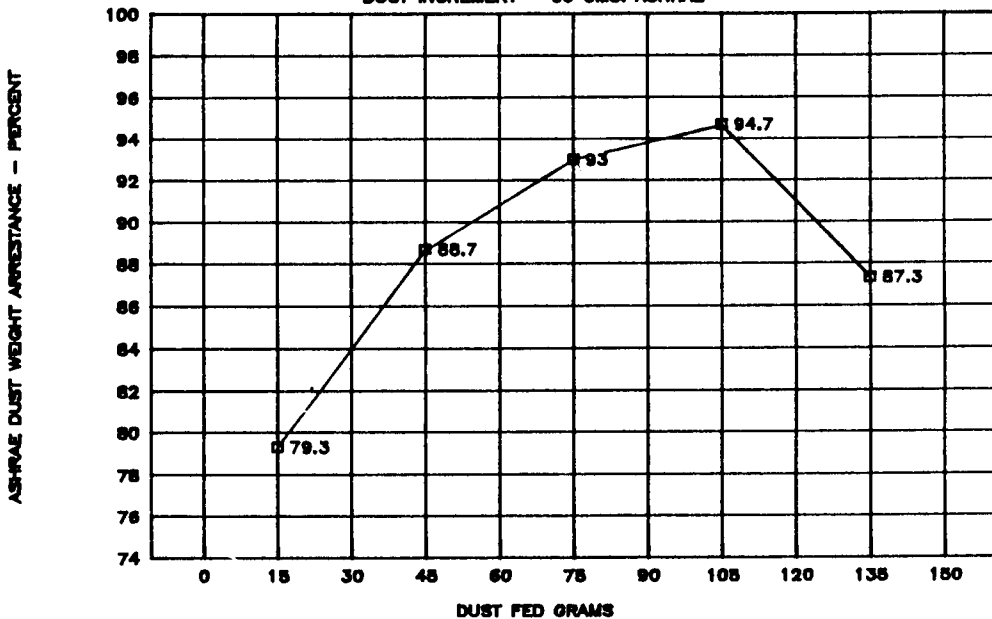
REPORT NO. 5631

TEST NO. 1

SHEET NO. 3

DUST FED VS. ARRESTANCE

DUST INCREMENT - 30 GMS. ASHRAE



DATE

4-16-1990

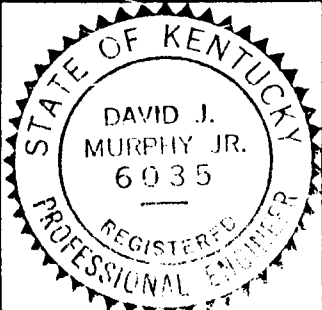
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David J. Murphy Jr.





Air Filter Testing Laboratories, Inc.

4632 Old LaGrange Road • Crestwood, Kentucky 40014 • Phone (502) 222-5720

REPORT NO. 3348

TEST REQUESTED BY:
 MANUFACTURER:
 PRODUCT NAME:
 HOW LABORATORY PROCURED TEST SAMPLE:
 MODEL NO.: HFA
 DIMENSIONS:

PERMATRON CORPORATION
 PERMATRON CORPORATION
 ELECTROSTATIC AIR CLEANER
 FURNISHED BY MANUFACTURER
 WOVEN & NONWOVEN SYNTHETIC
 24" H X 24" W X 1" D

ATMOSPHERIC DUST PARTICLE SIZE EFFICIENCY TEST

PARTICLE COUNTS ON ATMOSPHERIC AIR SAMPLE WERE TAKEN UPSTREAM AND DOWNSTREAM OF THE TEST FILTER USING A CLIMET INSTRUMENT MODEL 208A ELECTRO OPTICAL AIRBOURNE PARTICLE ANALYZER.

THE FILTER PARTICLE SIZE EFFICIENCY RESULTS ARE AS LISTED BELOW:
 TEST AIR FLOW RATE: 1200 CFM

SIZE RANGE Y M	EFFICIENCY %
0.3 & >	9.8
0.5 & >	24.2
1.0 & >	42.7
3.0 & >	81.1

DATE 7-3-1984

ENGINEERING APPROVAL

David J. Murphy Jr.