



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 DUST EATER
HOW LABORATORY PROCURED TEST SAMPLE FURNISHED BY MANUFACTURER
MODEL NO. _____ DIMENSIONS 24 IN. H 24 IN. W 1 IN. D

REPORT NO. 3963
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

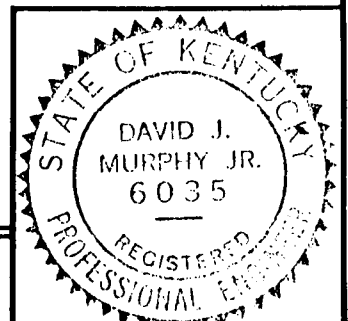
| | | | | |
|------------------------------------------|-----------------|-------------|---|----------------------|
| TEST AIR FLOW RATE | <u>1200 CFM</u> | <u>300</u> | → | <u>FPM</u> |
| INITIAL RESISTANCE | | <u>0.16</u> | → | <u>IN. W.G.</u> |
| FINAL RESISTANCE | | | | <u>1.00 IN. W.G.</u> |
| INITIAL ATMOSPHERIC DUST SPOT EFFICIENCY | | | | <u>NR* %</u> |
| AVERAGE ATMOSPHERIC DUST SPOT EFFICIENCY | | | | <u>NR* %</u> |
| AVERAGE SYNTHETIC DUST WEIGHT ARRESTANCE | | | | <u>91 %</u> |
| ASHRAE DUST HOLDING CAPACITY | | | | <u>160 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 AND NONWOVEN SYNTHETIC MEDIA
• TYPE & AMOUNT ADHESIVE NONE

* CHANGED TO READ NR (NOT RW)
FROM < 20% 10-20-1989 D.J.M.



DATE 3-5-1986 TEST SUPERVISOR J.P.S. ENGINEERING APPROVAL David J. Murphy Jr.



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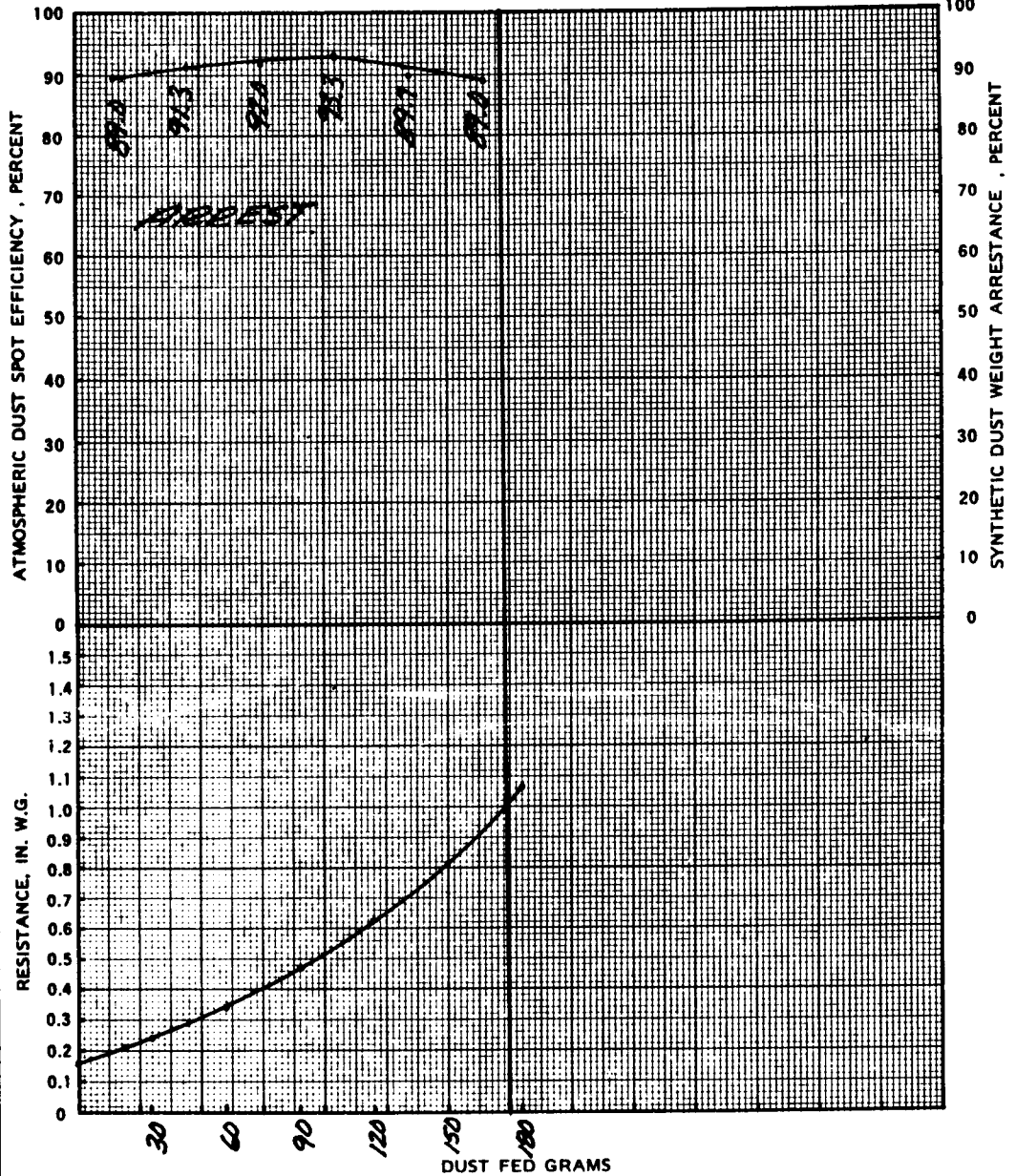
ASHRAE STANDARD 52-76 AIR FILTER PERFORMANCE CURVES

STATICALLY
TESTED
DEVICES

REPORT NO. 3963

TEST NO. 1

SHEET NO. 1A



DATE

3-5-1986

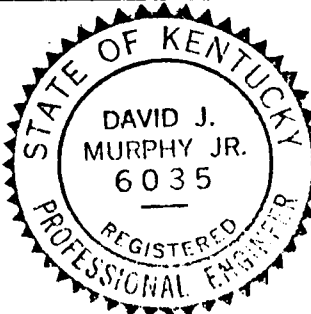
TEST SUPERVISOR

J.P.S.

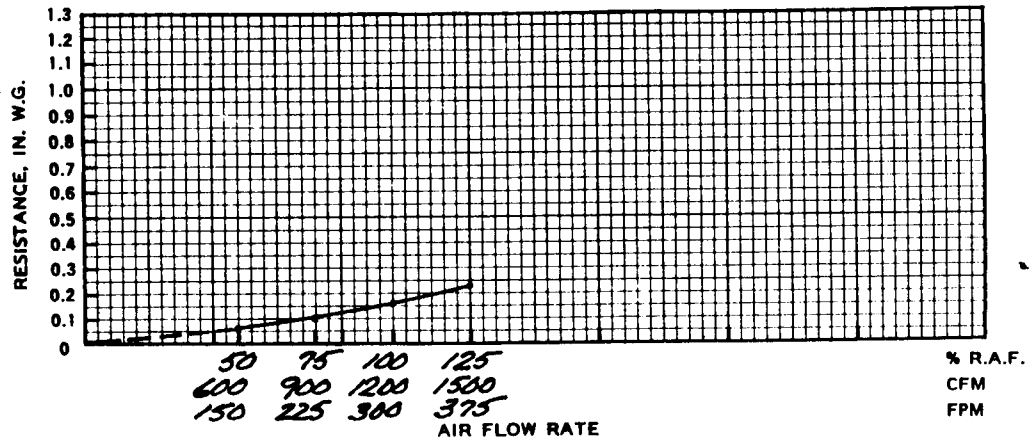
ENGINEERING

APPROVAL

David J. Murphy



CLEAN DEVICE — AIR FLOW RATE VS. RESISTANCE





AFTL

AIR FILTER TESTING LABORATORIES, INC.

4632 OLD LA GRANGE ROAD | CRESTWOOD, KENTUCKY 40014 PHONE (502) 222-5720

ASHRAE TEST STANDARD 52.1-1992
STATICALLY TESTED DEVICES

REPORT NO. 8522

TEST NO. 1

SHEET NO. 1

DEVICE TESTED

TEST REQUESTED BY _____ **PERMATRON CORPORATION**
MANUFACTURER _____ **PERMATRON CORPORATION**
PRODUCT NAME _____ **DUST FATER EASY FLOW**
HOW AFTL PROCURED TEST SAMPLE _____ **FURNISHED BY MANUFACTURER**

MODEL NO. EASY FLOW DIMENSIONS 24 IN. H 24 IN. W 1 IN. D

| 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 | | | |
| AVERAGE DUST HOLDING CAPACITY | | | |

TEST RESULTS

| | | | |
|------------------------------------------|------|------|----------|
| TEST AIR FLOW RATE | 1200 | | CFM |
| INITIAL RESISTANCE | 0.11 | | IN. W.G. |
| FINAL RESISTANCE | | 1.00 | IN. W.G. |
| INITIAL ATMOSPHERIC DUST SPOT EFFICIENCY | | N/R | |
| AVERAGE ATMOSPHERIC DUST SPOT EFFICIENCY | | N/R | |
| AVERAGE SYNTHETIC DUST WEIGHT ARRESTANCE | | 82 | % |
| ASHRAE DUST HOLDING CAPACITY | | 105 | GM. |

TEST SECTION DUCT SIZE 24 IN. X 24 IN. DUST FEEDING RATE 2.0 GM./1000 CF

(SEE ATTACHED PERFORMANCE CURVES)

PHYSICAL DESCRIPTION

FACE DIMENSIONS (NOM.) _____ **24 IN. X 24 IN.**
DEPTH (NOM.) _____ **1 IN.**
MEDIA AREA _____ **4.0 FT²**
TYPE MEDIA _____ **POLYPROPYLENE**
TYPE & AMOUNT ADHESIVE _____ **NONE**

DATE
3-9-1995

TEST SUPERVISOR
J.P.S.

ENGINEERING APPROVAL

David J. Murphy Jr.





AFTL

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*ASHRAE TEST STANDARD 52.1-1992
AIR FILTER PERFORMANCE CURVES*

REPORT NO. 8522

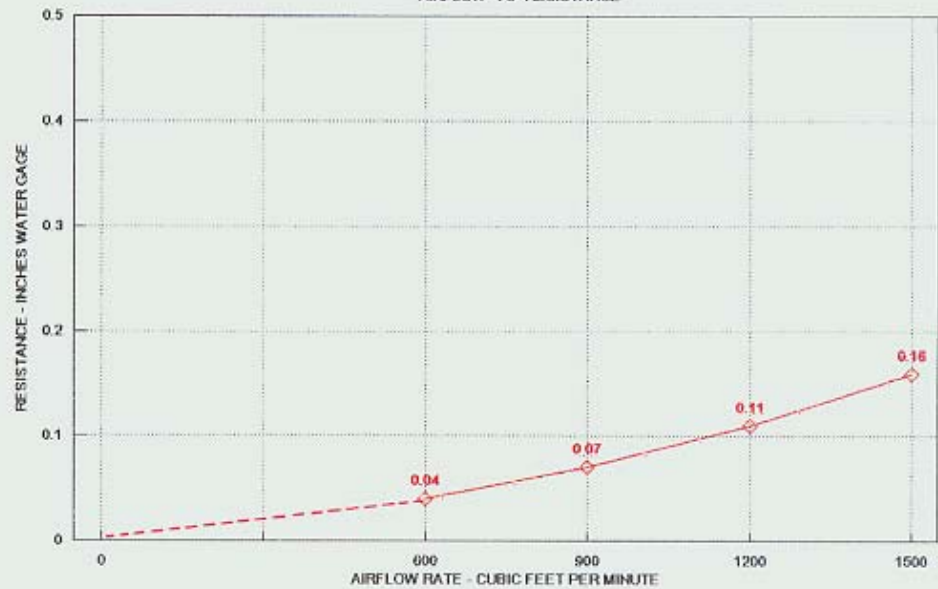
TEST NO. 1

SHEET NO. 2

STATICALLY
TESTED
DEVICES

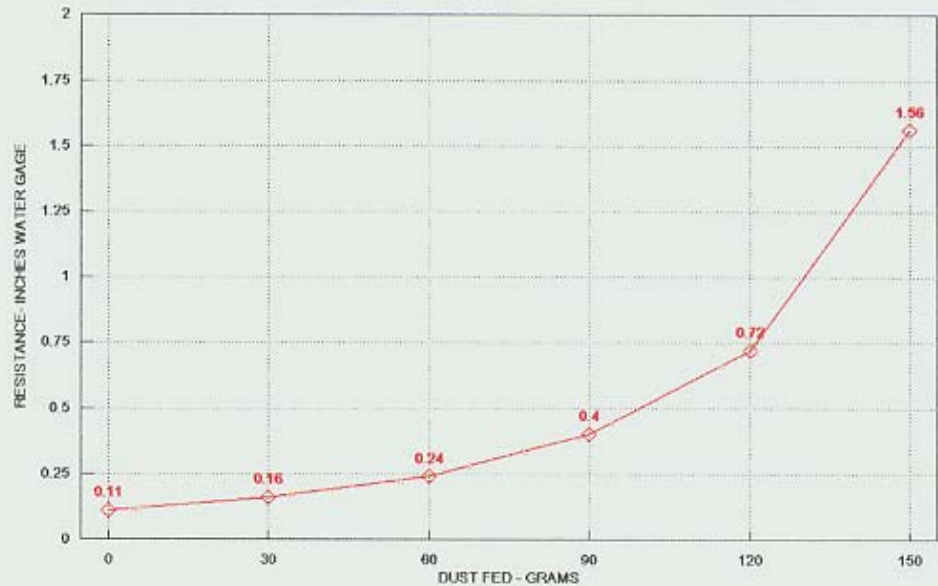
CLEAN DEVICE

AIRFLOW -VS- RESISTANCE



DUST FED -VS- RESISTANCE

DUST INCREMENT - 30 GRAMS ASHRAE



DATE

3-9-1995

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AFTL

*ASHRAE TEST STANDARD 52.1-1992
AIR FILTER PERFORMANCE CURVES*

REPORT NO. 8522

TEST NO. 1

SHEET NO. 3

STATICALLY
TESTED
DEVICES

DUST FED -VS- ARRESTANCE

DUST INCREMENT - 30 GRAMS ASHRAE



DATE

3-9-1995

TEST SUPERVISOR

J.P.S.

ENGINEERING
APPROVAL

David J. Murphy

