



AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road • Buckner, Kentucky 40010

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

ASHRAE STANDARD METHOD 52.1-1992 AIRFLOW -vs- INITIAL RESISTANCE AND PAINT ARRESTOR REMOVAL EFFICIENCY; CLEAN DEVICE

DEVICE TESTED

Test Requested By **ANDREAE TEAM, INC.**
 Manufacturer **ANDREAE TEAM, INC.**
 Test Sample Procurement **FURNISHED BY MANUFACTURER**
 Product Name **ANDREAE HIGH EFFICIENCY FILTER (ECO HIGH EFFICIENCY FILTER)**
 Model No. **AF SERIES (EF SERIES)**
 Dimensions **20 IN. H X 20 IN. W X 2 IN. D (NOMINAL)**
 Product Description **MEDIA TYPE - ACCORDION PAPER W/ POLYESTER BACKING**

REPORT NO.
13950

TEST NO.
1

SHEET NO.
1

TEST CONDITIONS

Test Duct Configuration	IN ACCORDANCE WITH ASHRAE STANDARD 52.1-1992	
Paint Description	HIGH SOLIDS BAKE ENAMEL (S.W. PERMACLAD 2400, WHITE)	
Paint Spray Method	CONVENTIONAL AIR-ATOMIZED SPRAY GUN	
Paint Atomization Rate	40	psi
Paint Application Rate	140	g/ min
Test Air Velocity Rate	150	ft/min (fpm)
Air Temperature	75	°F
Relative Humidity	50	%

TEST RESULTS - see attached performance curves

Initial Resistance	0.23	in. w.c.
Final Resistance	0.69	in. w.c.
Weight Gain - Paint Arrestor Filter	3052.64	g
Weight Gain - Final Filter	19.76	g
Total Weight Paint Fed	3072.40	g
Average Paint Removal Efficiency	99.4	%
Paint Holding Capacity	3053	g

DATE
06-07-2011

TEST SUPERVISOR
M.A.M.

ENGINEERING
APPROVAL

Michael A. Murphy





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PERFORMANCE CURVES

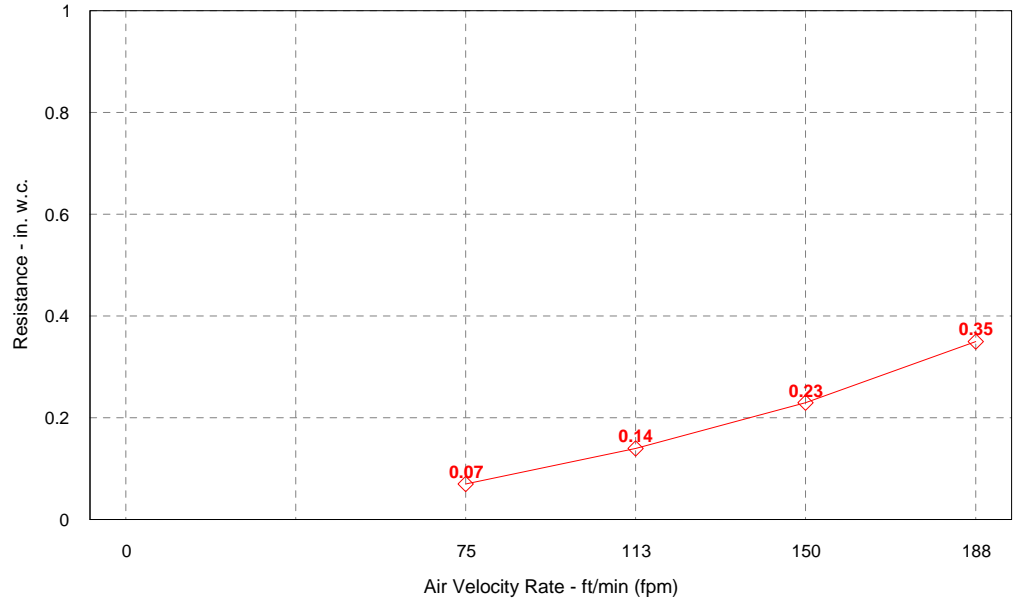
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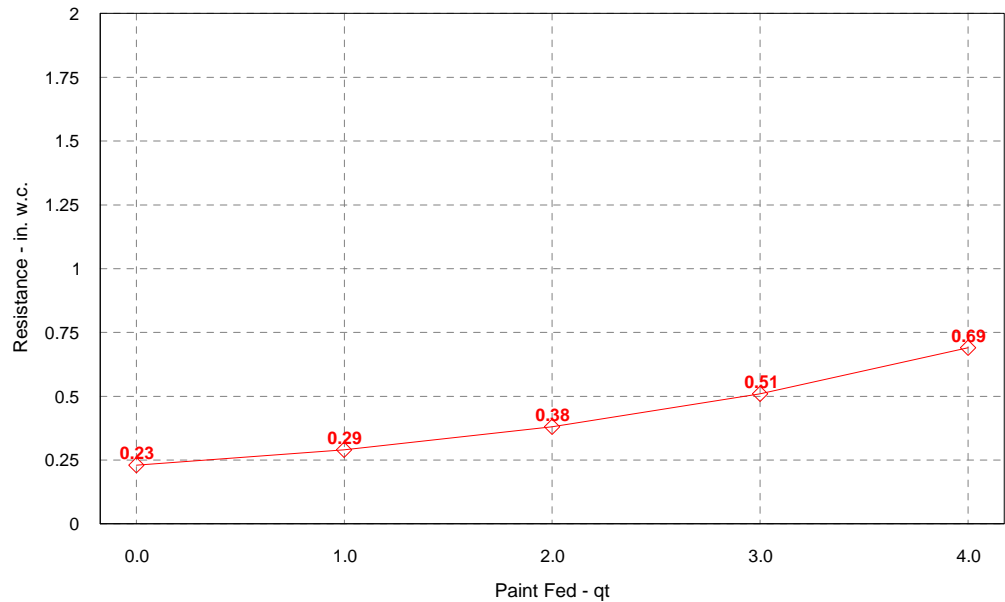
CLEAN DEVICE

Air Velocity -vs- Initial Resistance



PAINT FED -vs- RESISTANCE

Paint Increment - 1 qt.



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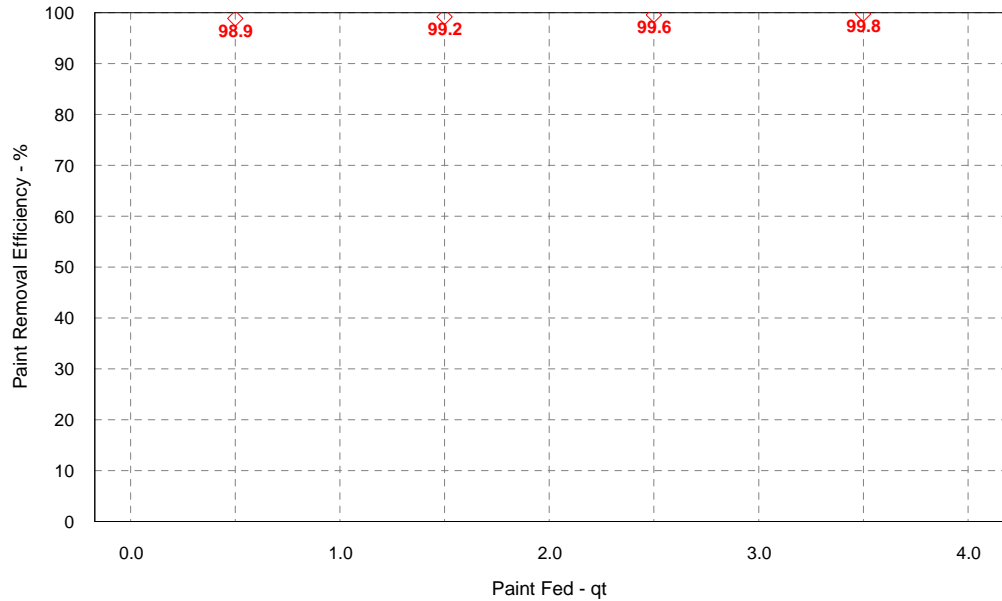
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PERFORMANCE CURVES

PAINT FED -vs- REMOVAL EFFICIENCY

Paint Increment - 1 qt.



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