



Automotive & Powersports THE FACTS ABOUT YOUR INTAKE & AIR

ISO 5011 Tested to Make Sure You Maximize Airflow While Still Protecting Your Engine.

Part Number: 75-5106, 75-5106D
Description: Performance Intake Kit & Filter
Vehicle Applications: 2009 – 2017 RAM 1500/2500/3500 5.7L Hemi

Test Date: 09/21/2017
Test Report #: 1, 2, 4, 5, 6, 7, 8, 9

TECHNICAL BULLETIN

There is a lot of misinformation in the marketplace. S&B publishes specific test results for each of our intakes & filters as shown below, so you can make an informed decision. Remember, improving your airflow is only good if your engine is still protected. That's the S&B difference!

FACT: S&B Flows 41.28% Better than Stock

In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&B's intake kit (and filter) had significantly lower restriction (better airflow) than the stock intake system. See the graph on the next page.

WATCH OUT: Some competitors over state airflow.

If they state that their filter will flow, lets say 1000 cfm, without stating at what restriction level, they are trying to mislead you.

Description	% S&B Flowed Better than Stock (tested @ 451 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	41.28%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	31.96%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	40.07%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	30.99%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	451 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13240C
Dust Feed Rate (grams/minute)	12.77

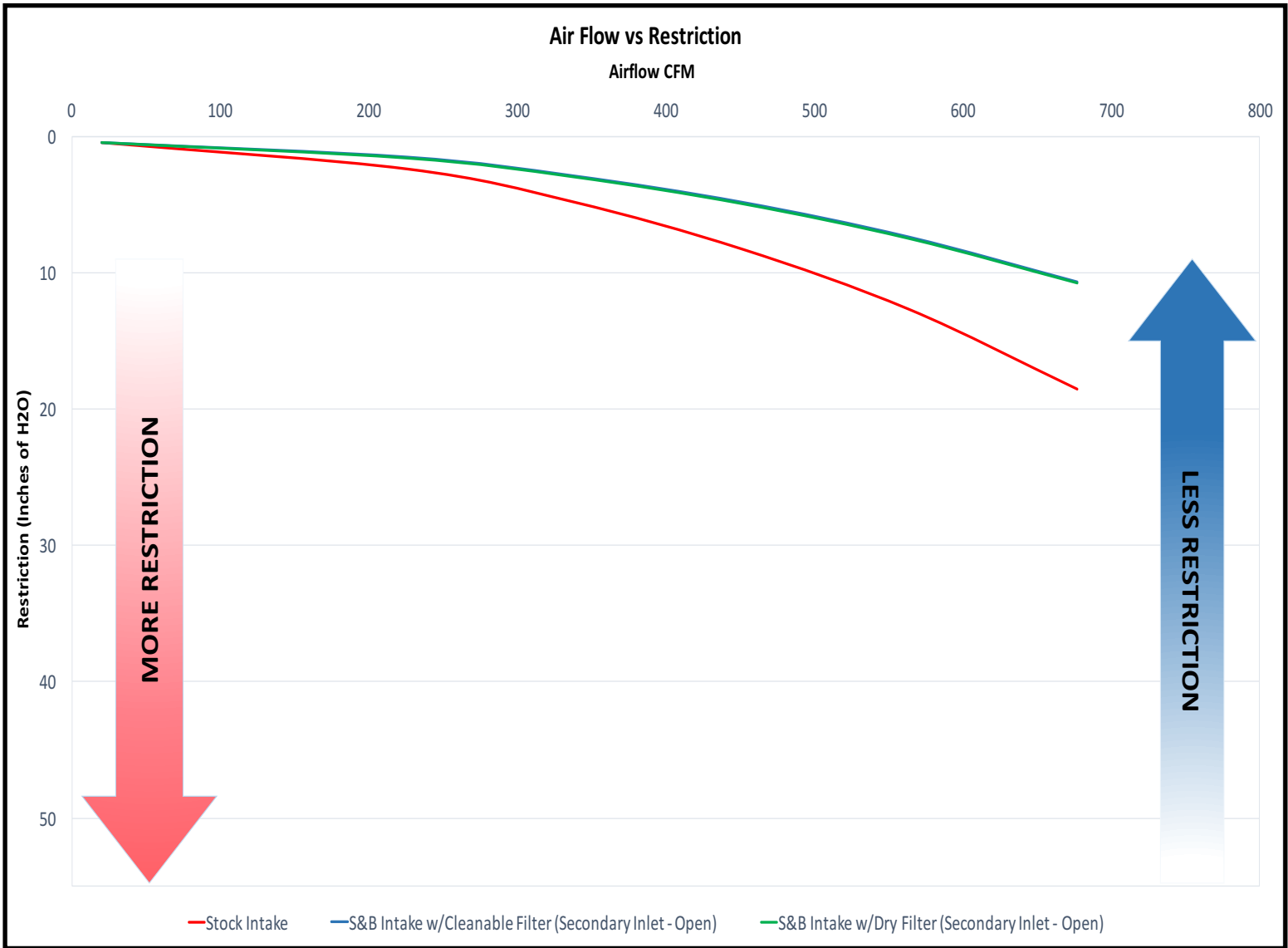
FACT: S&B Protects Your Engine

S&B tests at the highest rated CFM for your vehicle when determining the efficiency rate (amount of dust the filter stops), so that we can be sure that your engine will be protected.

Description	Efficiency Rate (tested @ 451 cfm)
Stock	99.75%
S&B Intake w/ Cleanable Filter	99.30%
S&B Intake w/ Dry Filter	99.46%

WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers.

Many send one filter off to a lab to be tested at a low cfm and then publish this efficiency rate for all of their part numbers.



Air Filter Restriction Test Report

Test #: 464
Sample #: 1
Filter #: 53032404AB
Housing #:
Date Code:

Operator: SD
Report Date: 9/21/2017
Filter Mfg.:
Housing Mfg.:



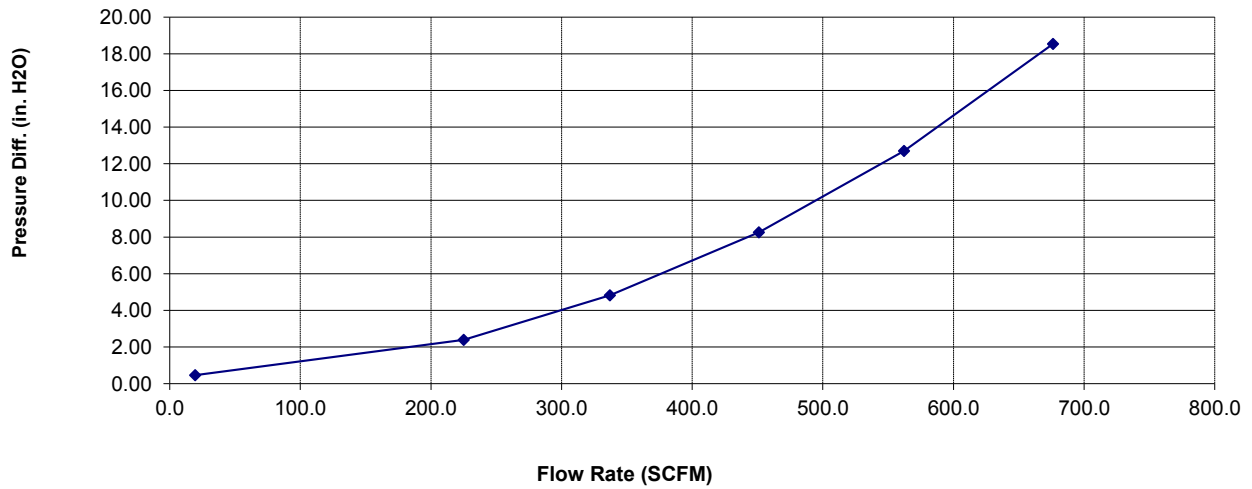
Test Description: STOCK INTAKE AND FILTER, NO CCV, MOPAR# 53032404AB

Test Conditions

Barometric Pressure: 28.73777 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 46 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
20	0.46
225	2.40
337	4.82
451	8.26
562	12.70
676	18.54

Air Filter Restriction Test Report

Test #: 464
Sample #: 4
Filter #: KF-1056
Housing #: 75-5106
Date Code:

Operator: SD
Report Date: 9/21/2017
Filter Mfg.:
Housing Mfg.:



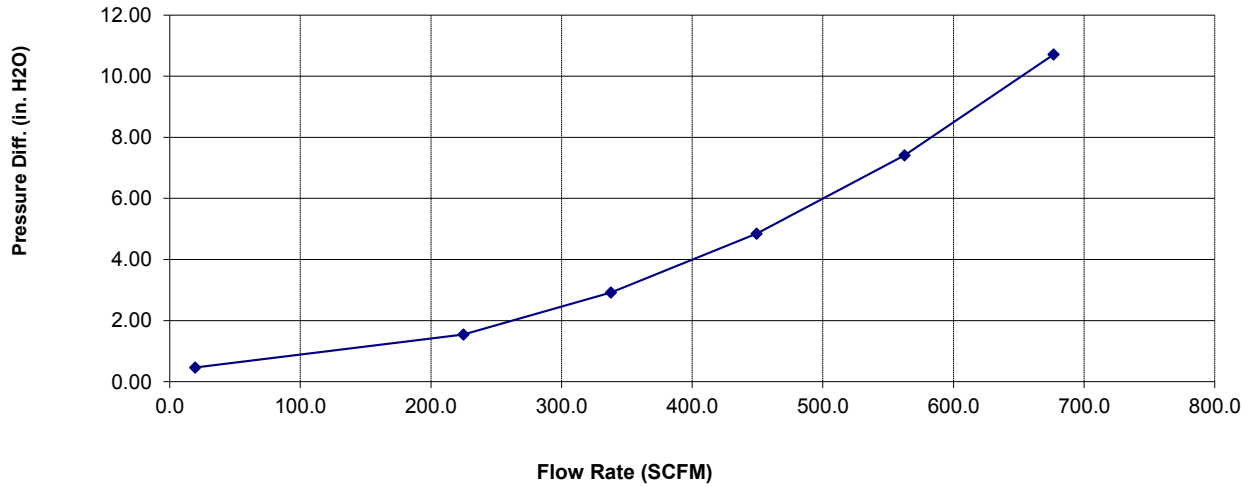
Test Description: 75-5106 PRODUCTION KIT, NO CCV, PLUG REMOVED, KF-1056

Test Conditions

Barometric Pressure: 28.69524 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 46 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
20	0.47
225	1.54
338	2.92
449	4.85
563	7.42
677	10.71

Air Filter Restriction Test Report

Test #: 464
Sample #: 5
Filter #: KF-1056
Housing #: 75-5106
Date Code:

Operator: SD
Report Date: 9/21/2017
Filter Mfg.:
Housing Mfg.:



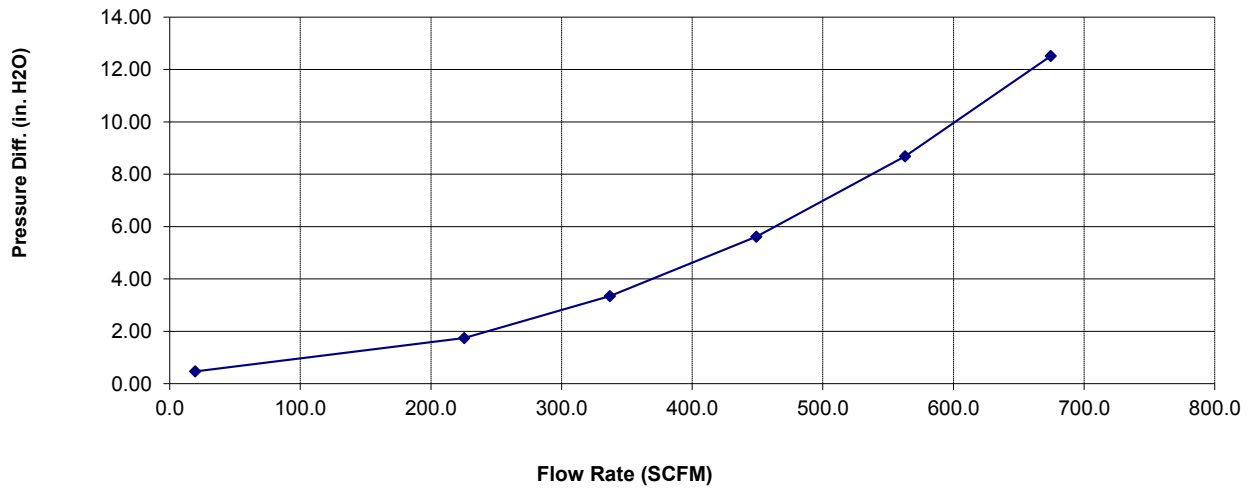
Test Description: 75-5106 PRODUCTION KIT, NO CCV, PLUG INSTALLED, KF-1056

Test Conditions

Barometric Pressure: 28.68965 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 47 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
20	0.47
225	1.74
337	3.35
449	5.62
563	8.68
675	12.52

Air Filter Restriction Test Report

Test #: 464
Sample #: 7
Filter #: KF-1056D
Housing #: 75-5106
Date Code:

Operator: SD
Report Date: 9/21/2017
Filter Mfg.:
Housing Mfg.:



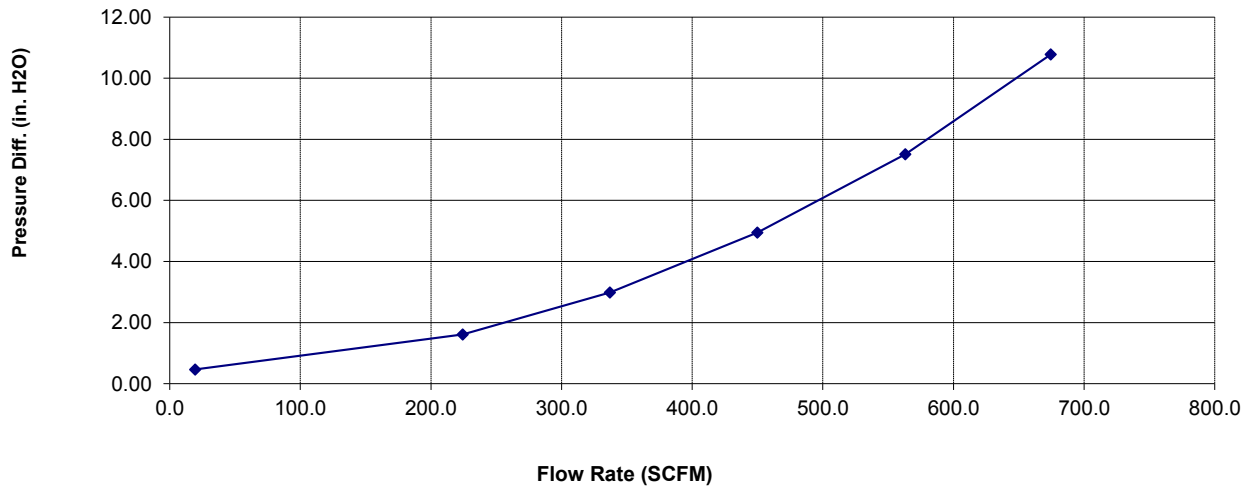
Test Description: 75-5106 PRODUCTION KIT, NO CCV, PLUG REMOVED, KF-1056D

Test Conditions

Barometric Pressure: 28.68271 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 46 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
20	0.47
224	1.61
337	2.99
450	4.95
563	7.52
675	10.78

Air Filter Restriction Test Report

Test #: 464
Sample #: 8
Filter #: KF-1056D
Housing #: 75-5106
Date Code:

Operator: SD
Report Date: 9/21/2017
Filter Mfg.:
Housing Mfg.:



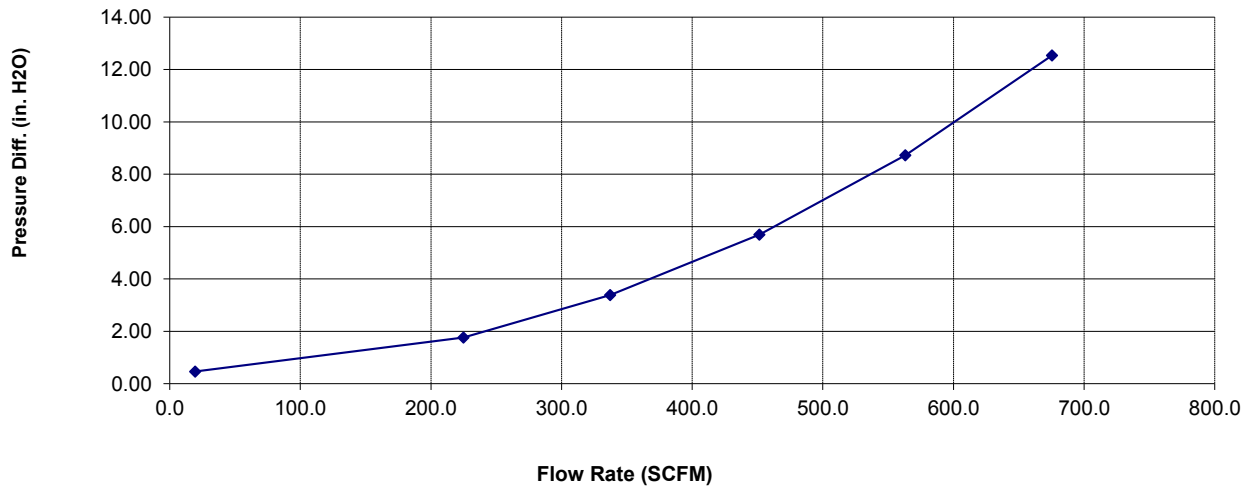
Test Description: 75-5106 PRODUCTION KIT, NO CCV, PLUG INSTALLED, KF-1056D

Test Conditions

Barometric Pressure: 28.68444 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 46 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
20	0.47
225	1.77
337	3.38
451	5.70
563	8.72
675	12.54

Air Filter Full Life Efficiency Test Report

Test #: 464
Sample #: 2
Filter #: 53032404AB
Housing #:
Date Code:

Operator: SD
Report Date: 9/21/2017
Filter Mfg.:
Housing Mfg.:



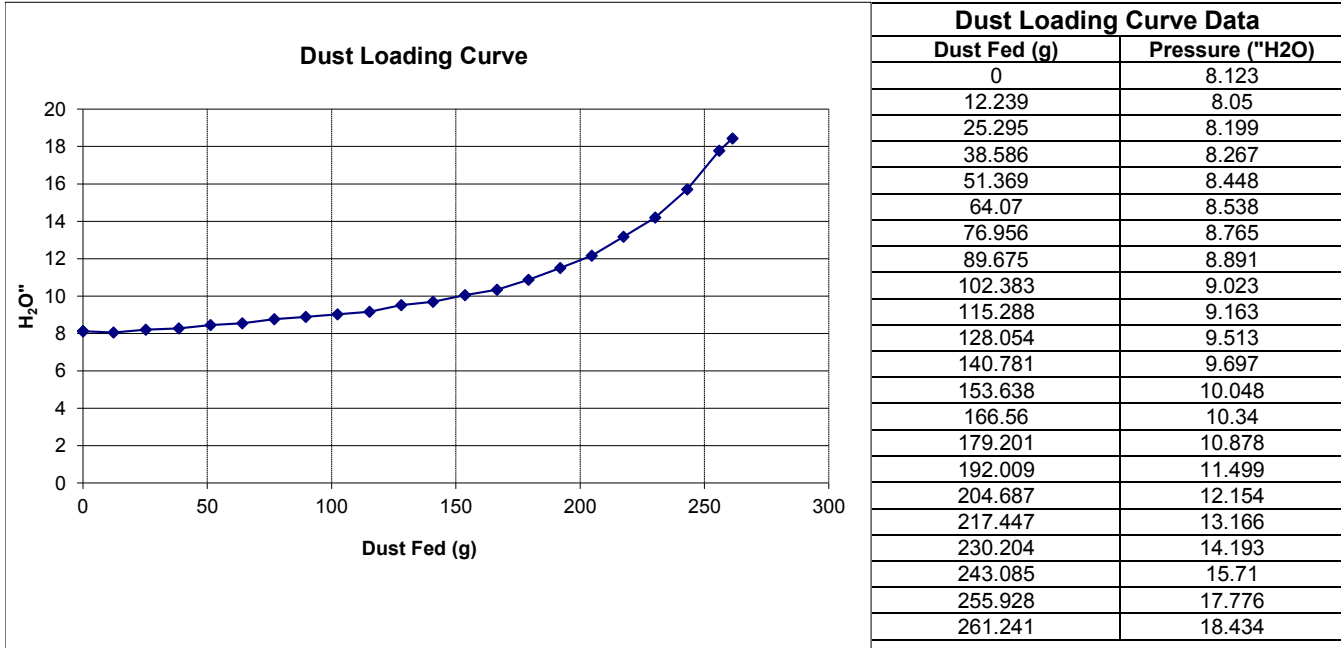
Test Description: STOCK INTAKE AND FILTER, NO CCV, MOPAR# 53032404AB

Test Conditions			
Barometric Pressure:	28.732 in. Hg	Relative Humidity:	48 %
Air Flow Setpoint:	451 SCFM	Type of Dust:	A4 COARSE
Test Procedure:		Batch #:	13240C
Air Flow Type:	SCFM	Temperature:	69 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	12.77 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	8.24 in. H2O	Accumulative Capacity:	262.10 g
		Test Time:	20.44 min

	Initial		Accumulative	
		Blanket		Blanket
Start			3760.50	144.40
End			4022.60	145.05
Gain			262.10	0.65
Efficiency			99.75%	

- Standard Restriction
- Pressure Differential



Air Filter Full Life Efficiency Test Report

Test #: 464
Sample #: 6
Filter #: KF-1056
Housing #: 75-5106
Date Code:

Operator: SD
Report Date: 9/21/2017
Filter Mfg.:
Housing Mfg.:



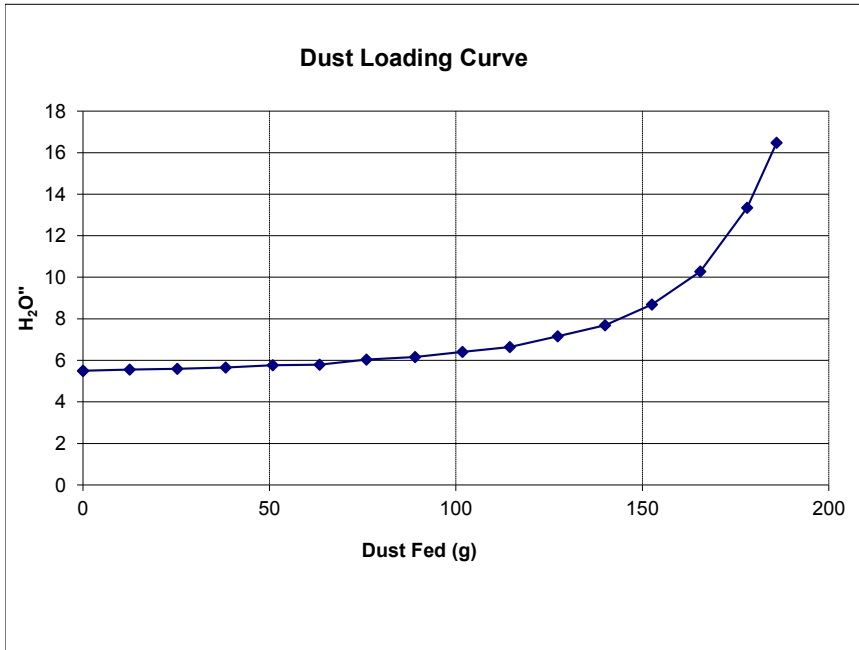
Test Description: 75-5106 PRODUCTION KIT, NO CCV, PLUG INSTALLED, KF-1056

Test Conditions			
Barometric Pressure:	28.685 in. Hg	Relative Humidity:	47 %
Air Flow Setpoint:	451 SCFM	Type of Dust:	A4 COARSE
Test Procedure:		Batch #:	13240C
Air Flow Type:	SCFM	Temperature:	68 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	12.77 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	5.70 in. H2O	Accumulative Capacity:	185.60 g
		Test Time:	14.63 min

	Initial		Accumulative	
		Blanket		Blanket
Start			5653.40	145.05
End			5839.00	146.36
Gain			185.60	1.31
Efficiency			99.30%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	5.5
12.549	5.561
25.279	5.593
38.238	5.651
50.887	5.767
63.447	5.79
76.055	6.035
89.059	6.164
101.737	6.409
114.499	6.642
127.272	7.155
140.018	7.687
152.572	8.684
165.526	10.272
178.128	13.349
186.012	16.475

Air Filter Full Life Efficiency Test Report

Test #: 464
Sample #: 9
Filter #: KF-1056D
Housing #: 75-5106
Date Code:

Operator: SD
Report Date: 9/21/2017
Filter Mfg.:
Housing Mfg.:



Test Description: 75-5106 PRODUCTION KIT, NO CCV, PLUG INSTALLED, KF-1056D

Test Conditions

Barometric Pressure: 28.685 in. Hg
Air Flow Setpoint: 451 SCFM
Test Procedure:
Air Flow Type: SCFM
Test Endpoint: 10 in. H2O
Number of Pleats:
Flow Direction:

Relative Humidity: 47 %
Type of Dust: A4 COARSE
Batch #: 13240C
Temperature: 68 deg. F
Initial Add Rate: NaN g/min
Accumulative Add Rate: 12.77 g/min
Pleat Depth: in.

Test Results

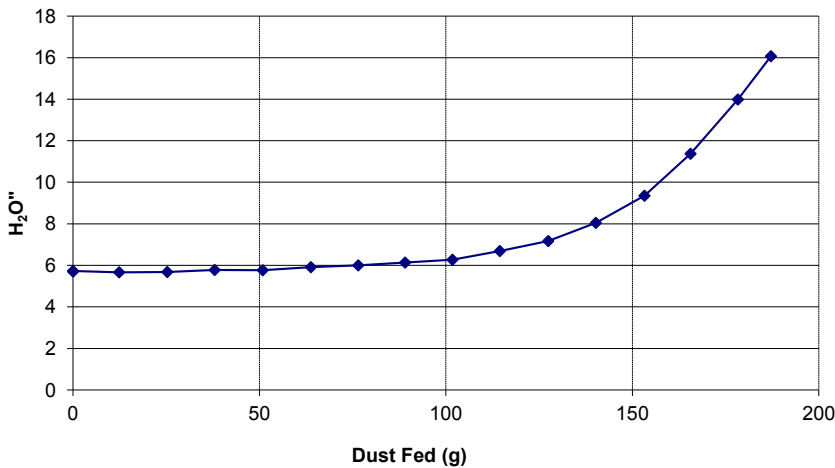
Initial Delta P 5.81 in. H2O

Accumulative Capacity: 186.30 g
Test Time: 14.67 min

	Initial		Accumulative	
		Blanket		Blanket
Start			5563.20	146.36
End			5749.50	147.37
Gain			186.30	1.01
Efficiency			99.46%	

- Standard Restriction
 Pressure Differential

Dust Loading Curve



Dust Loading Curve Data

Dust Fed (g)	Pressure (in. H2O)
0	5.734
12.38	5.663
25.304	5.677
37.993	5.782
50.909	5.76
63.82	5.918
76.51	6.002
89.042	6.131
101.763	6.276
114.456	6.693
127.427	7.167
140.227	8.042
153.249	9.355
165.608	11.372
178.287	13.984
187.155	16.065





GA940

LI-CC-77

16.2V 2.6Ah

12.8V 3.0Ah









