Automotive & Powersports

THE FACTS ABOUT YOUR INTAKE & AIR

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

Part Number: 75-5101, 75-5101D
Description: Performance Intake Kit & Filter
Vehicle Applications: 2001-2004 Chevy / GMC Duramax LB7 6.6L

Test Date: 02/08/17
Test Report #: 3, 4, 5, 6, 7, 8, 9, 10

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 44.63% 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 @ 632 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	44.63%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	41.15%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	42.35%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	39.32%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	632 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13099C
Dust Feed Rate (grams/minute)	17.90

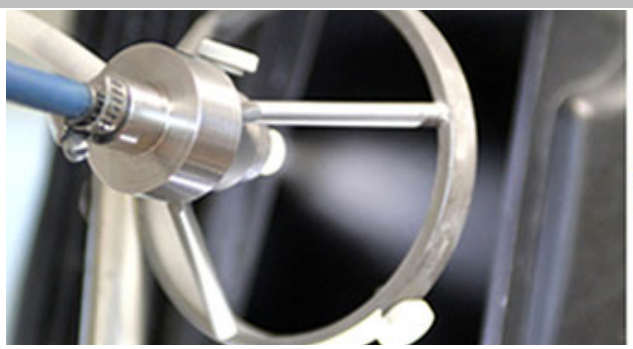
FACT: S&B Protects Your Engine

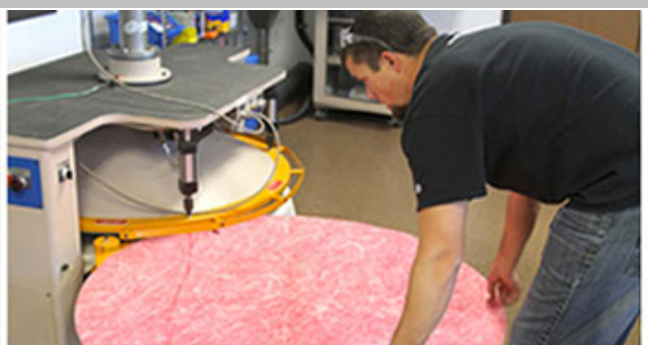
S&B tests at the highest rated CFM for your vehicle when determining the efficiency rate (amount of dust the filter stops), so that we can be sure that your engine will be protected.

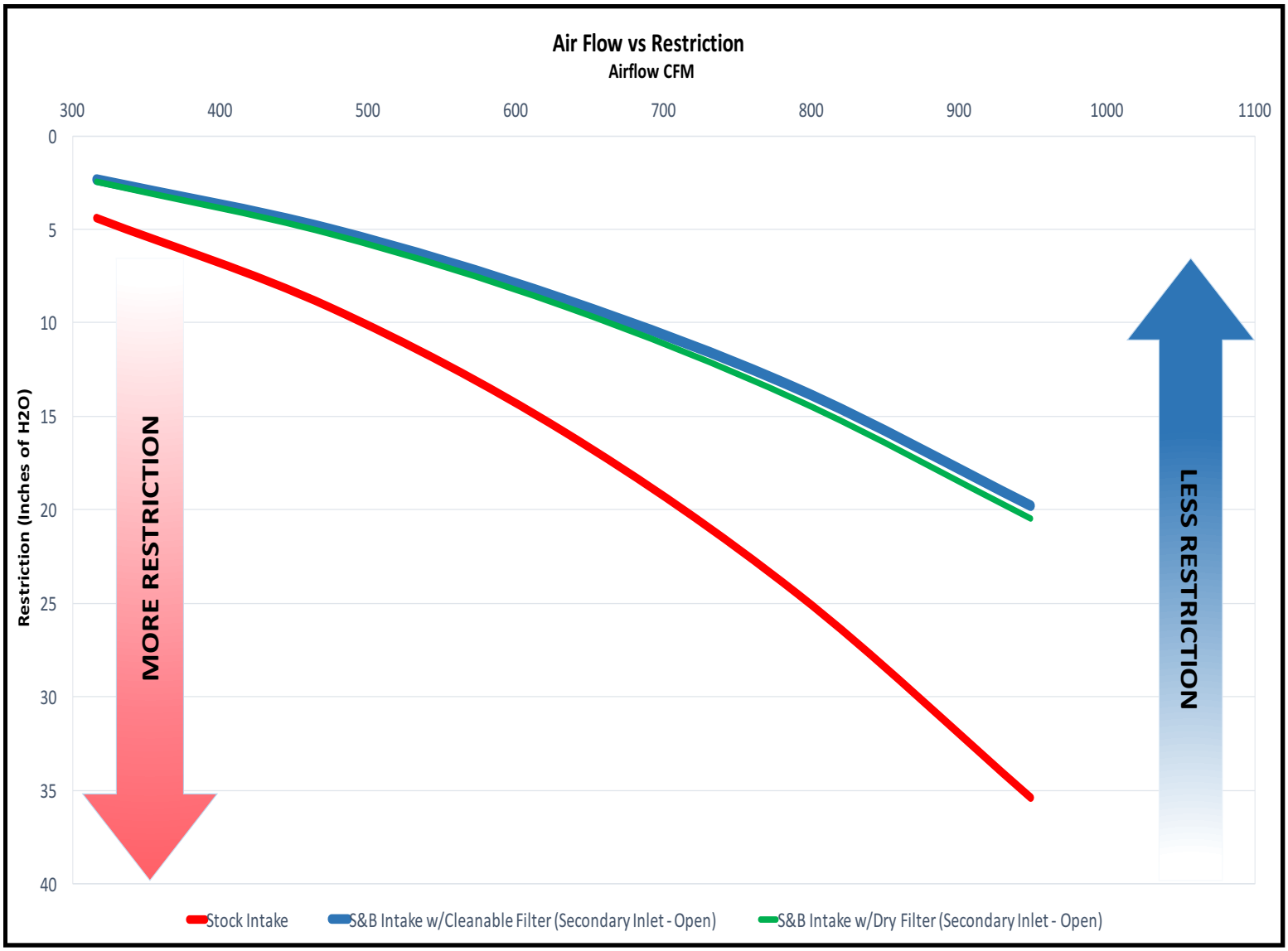
Description	Efficiency Rate (tested @ 632 cfm)
Stock	99.13%
S&B Intake w/ Cleanable Filter	99.25%
S&B Intake w/ Dry Filter	99.74%

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

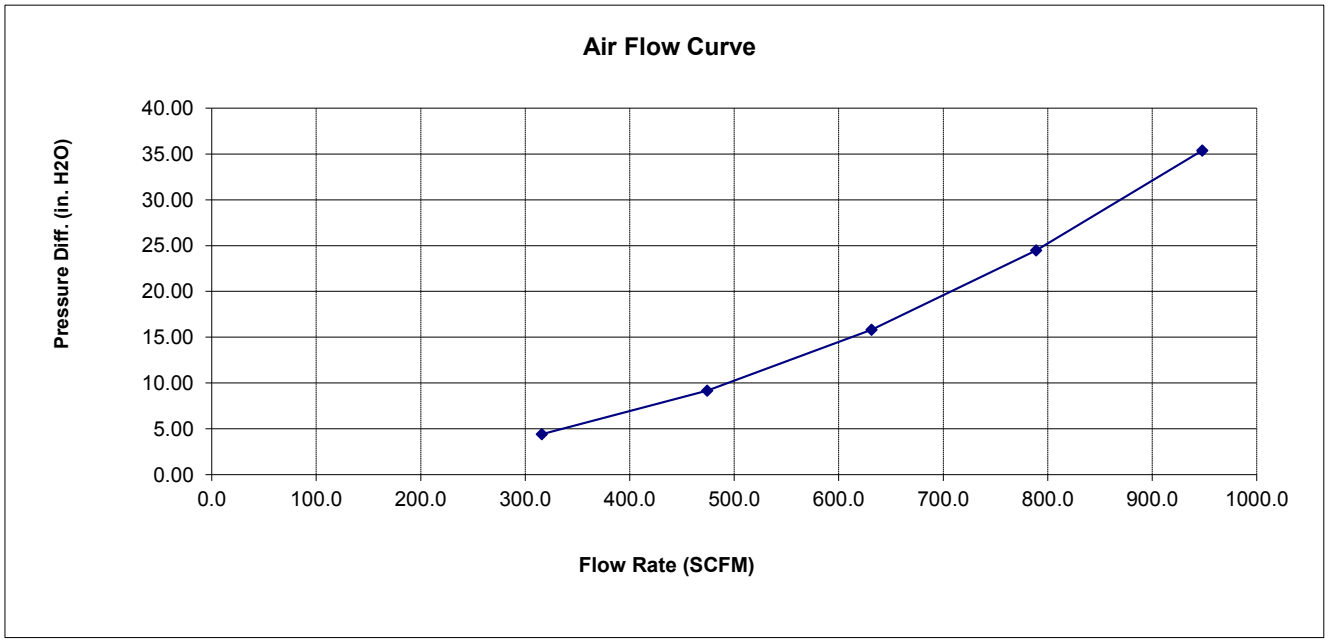
Test #: 435
Sample #: 3
Filter #: A1618C
Housing #:
Date Code:

Operator: SD
Report Date: 2/8/2017
Filter Mfg.:
Housing Mfg.:

Test Description: STOCK INTAKE AND FILTER, NO FILTER MINDER, NO SENSORS, RESONATOR INSTALLED, ACDELCO A1618C

Test Conditions

Barometric Pressure:	28.87979 in. Hg	**Relative Humidity:**	49 %
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
316	4.42
474	9.19
631	15.82
789	24.48
948	35.38

Air Filter Restriction Test Report

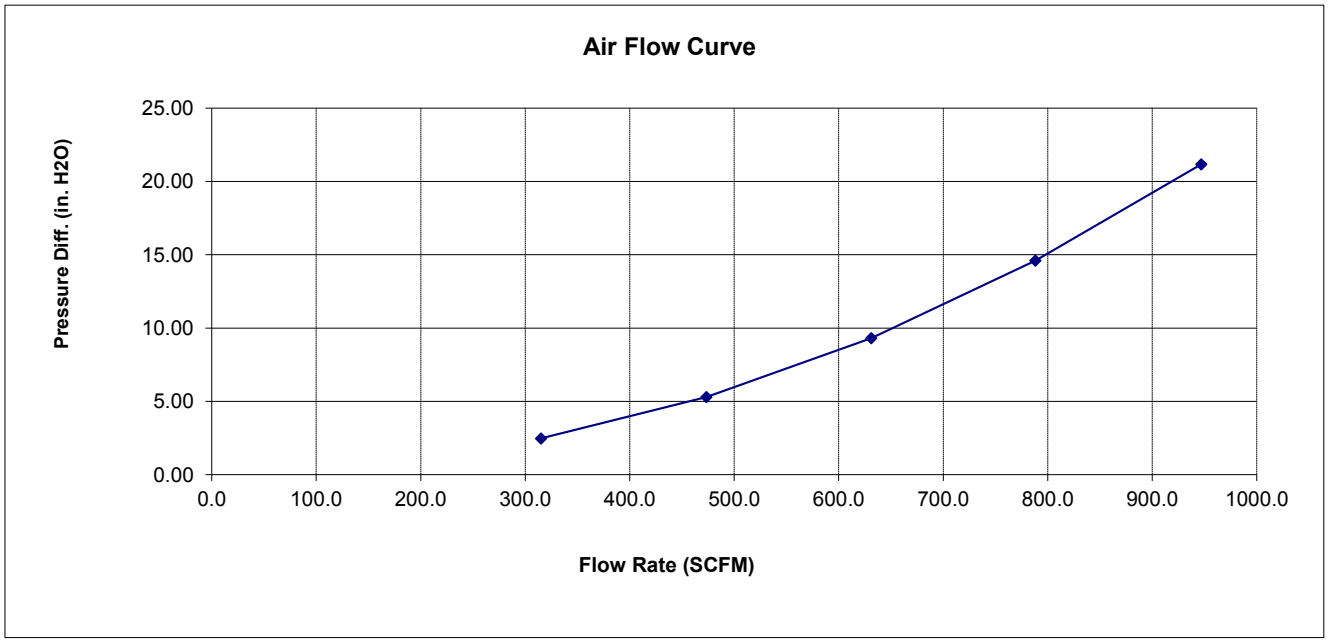
Test #: 435
Sample #: 5
Filter #: KF-1035
Housing #:
Date Code:

Operator: SD
Report Date: 2/8/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5101 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED PLUG INSTALLED, KF-1035

Test Conditions

Barometric Pressure:	28.89617 in. Hg	**Relative Humidity:**	49 %
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
315	2.48
474	5.29
631	9.31
788	14.60
947	21.17

Air Filter Restriction Test Report

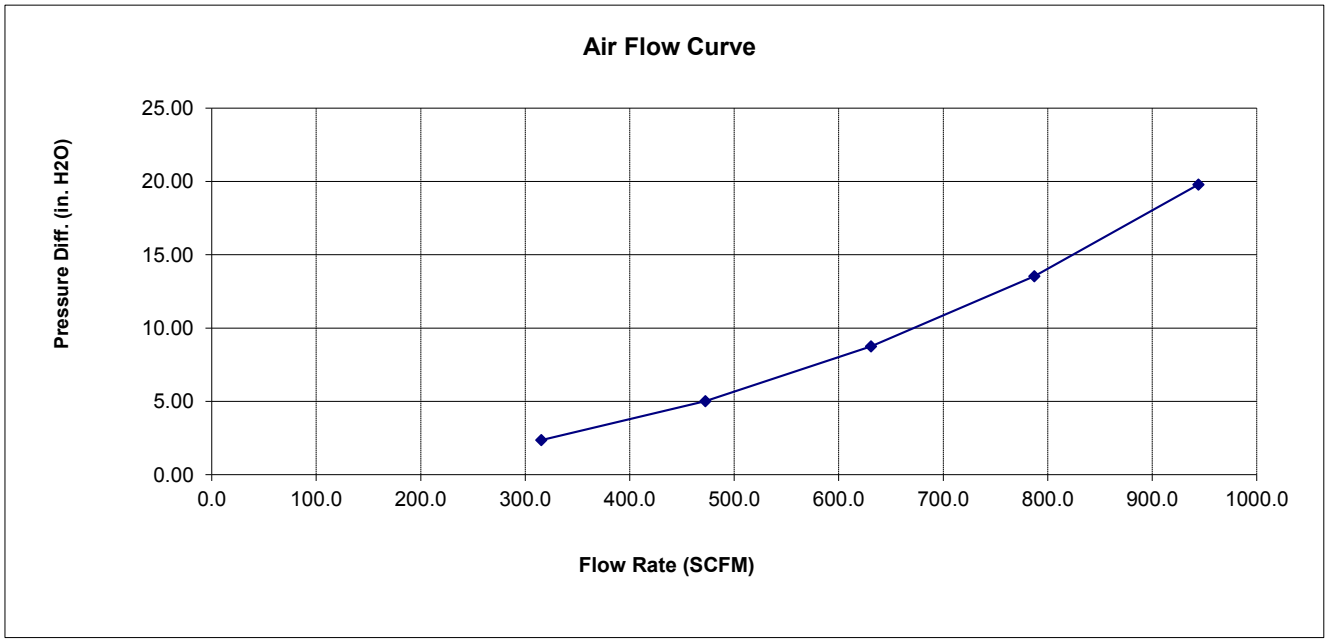
Test #: 435
Sample #: 6
Filter #: KF-1035
Housing #: 75-5101
Date Code:

Operator: SD
Report Date: 2/8/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5101 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED PLUG REMOVED, KF-1035

Test Conditions

Barometric Pressure:	28.9006 in. Hg	**Relative Humidity:**	49 %
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
315	2.36
472	5.01
631	8.76
787	13.54
944	19.80

Air Filter Restriction Test Report

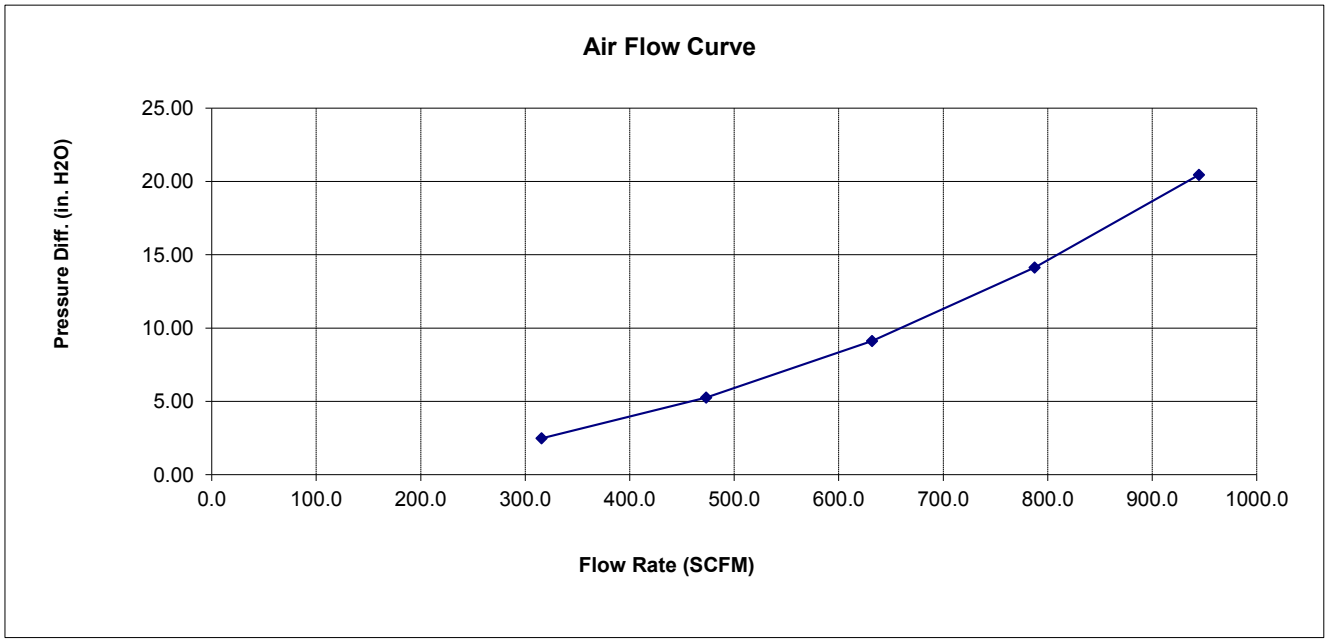
Test #: 435
Sample #: 7
Filter #: KF-1035D
Housing #: 75-5101
Date Code:

Operator: SD
Report Date: 2/8/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5101 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED PLUG REMOVED, KF-1035D

Test Conditions

Barometric Pressure:	28.98047 in. Hg	**Relative Humidity:**	49 %
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
316	2.48
473	5.26
632	9.12
788	14.13
945	20.45

Air Filter Restriction Test Report

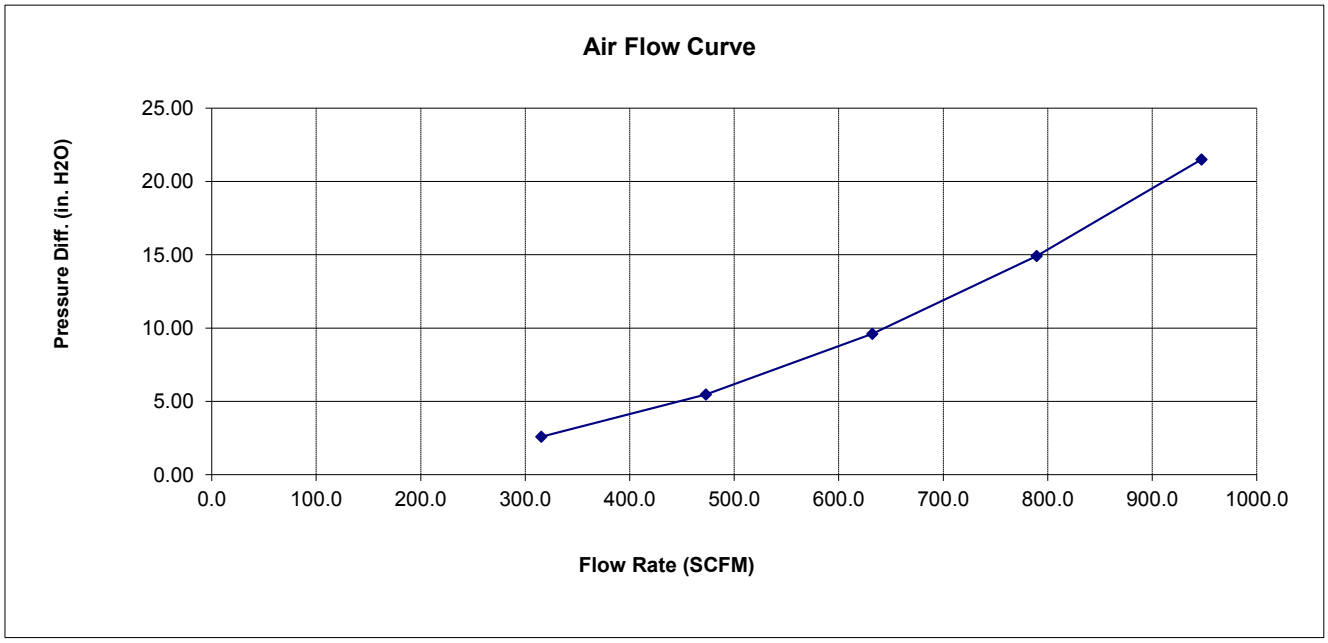
Test #: 435
Sample #: 8
Filter #: KF-1035D
Housing #: 75-5101
Date Code:

Operator: SD
Report Date: 2/8/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5101 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL PLUG INSTALLED, KF-1035D

Test Conditions

Barometric Pressure:	28.97469 in. Hg	**Relative Humidity:**	48 %
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
315	2.59
473	5.47
632	9.60
790	14.93
947	21.51

Air Filter Full Life Efficiency Test Report

Test #: 435
Sample #: 4
Filter #: A1618C
Housing #:
Date Code:

Operator: SD
Report Date: 2/8/2017
Filter Mfg.:
Housing Mfg.:

Test Description: STOCK INTAKE AND FILTER, NO FILTER MINDER, NO SENSORS, RESONATOR INSTALLED, ACDELCO A1618C

Test Conditions

Barometric Pressure:	28.885 in. Hg	**Relative Humidity:**	48 %
Air Flow Setpoint:	632 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13228C
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:**	17.9 g/min
Flow Direction:		**Pleat Depth:**	in.

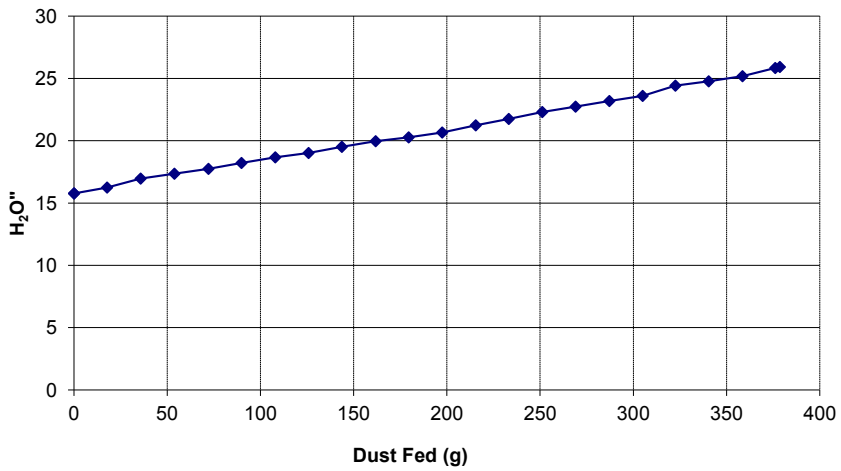
Test Results

Initial Delta P 15.78 in. H2O

Accumulative Capacity: 374.20 g
Test Time: 21.13 min

	Initial		Accumulative	
		Blanket		Blanket
Start			3853.90	148.26
End			4228.10	151.53
Gain			374.20	3.27
Efficiency			99.13%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	15.77
17.73	16.244
35.805	16.956
53.925	17.345
72.19	17.752
89.868	18.208
107.95	18.673
125.767	19.021
143.65	19.513
161.807	19.957
179.509	20.274
197.508	20.658
215.484	21.228
233.155	21.757
251.128	22.309
268.972	22.733
287.108	23.189
304.977	23.602
322.566	24.417
340.443	24.77
358.479	25.179
376.161	25.829
378.609	25.917

Air Filter Full Life Efficiency Test Report

Test #: 435
Sample #: 9
Filter #: KF-1035D
Housing #: 75-5101
Date Code:

Operator: SD
Report Date: 2/8/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5101 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED PLUG INSTALLED, KF-1035D

Test Conditions

Barometric Pressure:	28.991 in. Hg	**Relative Humidity:**	47 %
Air Flow Setpoint:	632 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13228C
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:**	17.9 g/min
Flow Direction:		**Pleat Depth:**	in.

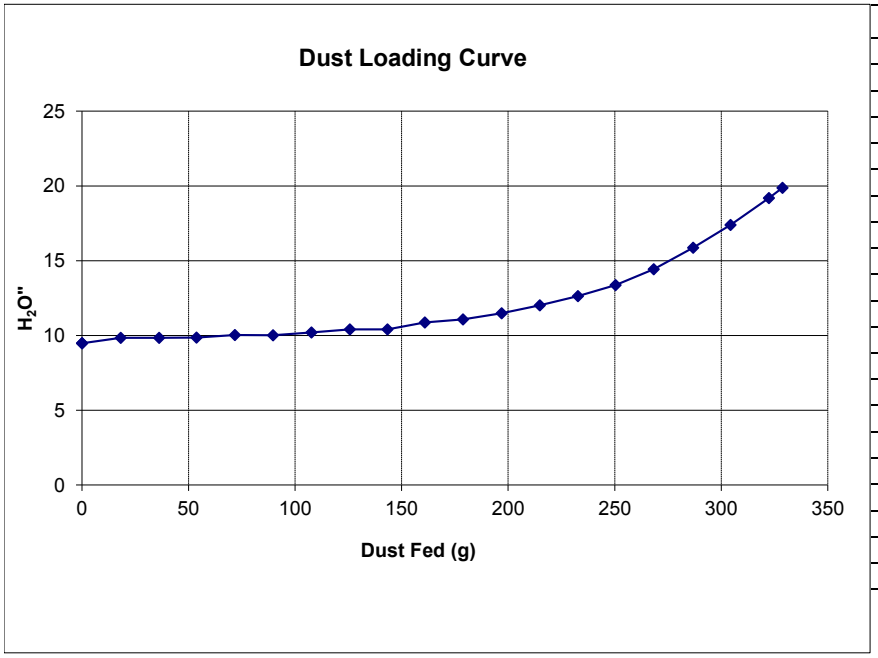
Test Results

Initial Delta P 9.54 in. H2O

Accumulative Capacity: 325.70 g
Test Time: 18.37 min

	Initial		Accumulative	
		Blanket		Blanket
Start			4286.40	136.46
End			4612.10	137.30
Gain			325.70	0.84
Efficiency			99.74%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	9.476
18.21	9.839
36.17	9.837
53.768	9.858
71.739	10.035
89.65	10.011
107.644	10.202
125.66	10.409
143.409	10.401
160.903	10.872
178.773	11.065
196.961	11.484
214.797	12.012
232.759	12.635
250.365	13.374
268.321	14.433
286.789	15.864
304.381	17.393
322.397	19.195
328.724	19.871

Air Filter Full Life Efficiency Test Report

Test #: 435
Sample #: 10
Filter #: KF-1035
Housing #: 75-5101
Date Code:

Operator: SD
Report Date: 2/8/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5101 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED PLUG INSTALLED, KF-1035

Test Conditions

Barometric Pressure:	29.010 in. Hg	**Relative Humidity:**	48 %
Air Flow Setpoint:	632 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13228C
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:**	17.9 g/min
Flow Direction:		**Pleat Depth:**	in.

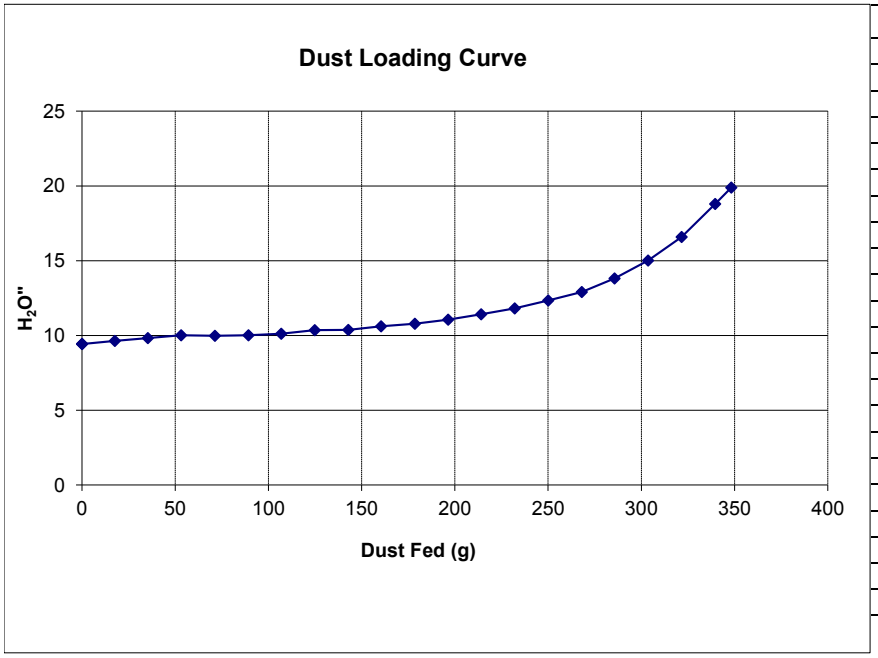
Test Results

Initial Delta P 9.38 in. H2O

Accumulative Capacity: 345.20 g
Test Time: 19.51 min

	Initial		Accumulative	
		Blanket		Blanket
Start			4402.60	137.30
End			4747.80	139.89
Gain			345.20	2.59
Efficiency			99.25%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	9.424
17.569	9.629
35.395	9.823
53.165	10.007
71.285	9.982
89.237	10.012
106.874	10.122
124.814	10.357
142.852	10.369
160.456	10.602
178.513	10.777
196.42	11.056
214.17	11.417
232.079	11.805
250.042	12.337
268.008	12.908
285.614	13.811
303.561	15.007
321.609	16.585
339.621	18.801
348.288	19.89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