

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

Part Number: 75-5102, 75-5102D

Description: Performance Intake Kit & Filter

Vehicle Applications: 2004-2005 Chevy / GMC Duramax LLY

6.6L

Test Date: 02/08/17

Test Report #: 1, 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 43.69% 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 @ 612 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	43.69%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	40.74%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	41.33%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	38.30%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	612 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13099C
Dust Feed Rate (grams/minute)	17.33

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 @ 612 cfm)
Stock	99.16%
S&B Intake w/ Cleanable Filter	99.52%
S&B Intake w/ Dry Filter	99.78%

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

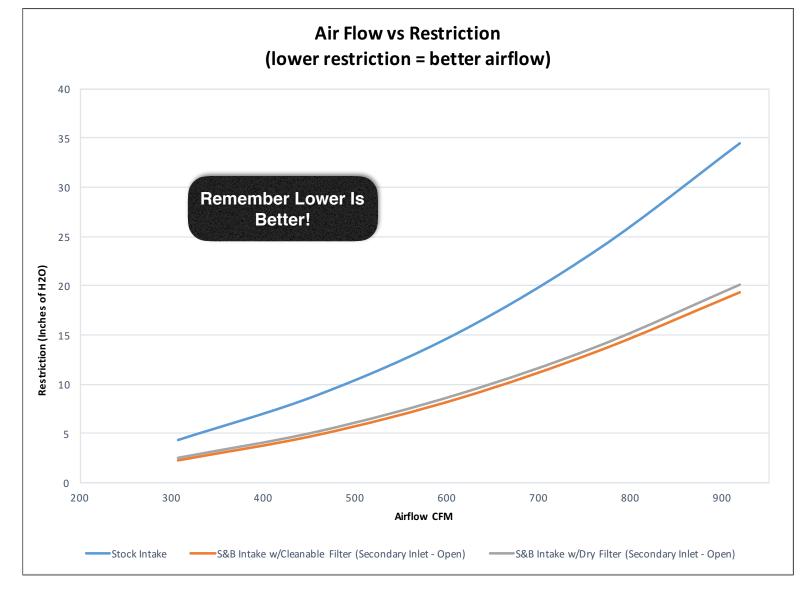
Part Numbers.

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.









Test #: 436 Operator: SD
Sample #: 1 Report Date: 2/8/2017
Filter #: A1618C Filter Mfg.:
Housing #: Housing Mfg.:



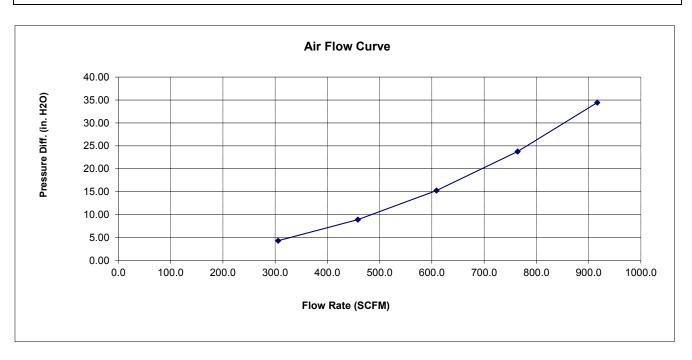
Test Description: STOCK INTAKE AND FILTER, NO SENSORS, NO FILTER MINDER, ACDELCO A1618C

Test Conditions

Barometric Pressure: 28.99944 in. Hg
Air Flow Type: SCFM
Number of Pleats: Pleat Depth: in.

Flow Direction:

Date Code:



Flow Rate	<u>Differential Pressure</u>
306	4.28
459	8.89
609	15.22
764	23.76
917	34.44

Test #: 436 Sample #: 5 Filter #: KF-1035 Housing #: 75-5102 Date Code: Operator: SD Report Date: 2/8/2017 Filter Mfg.: Housing Mfg.:



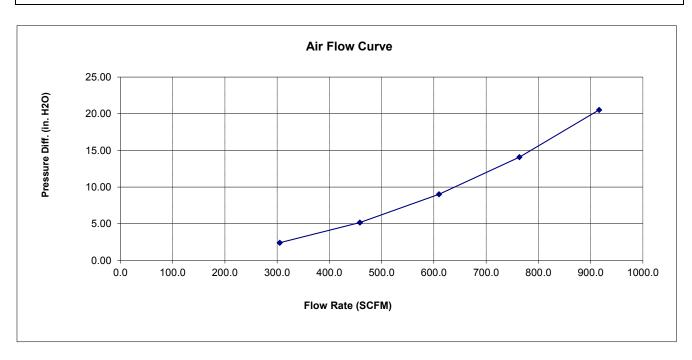
Test Description: 75-5102 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED

PLUG INSTALLED, KF-1035

Test Conditions

Barometric Pressure: 28.97288 in. Hg
Air Flow Type: SCFM
Number of Pleats: Relative Humidity: 49 %
Temperature: 68 deg. F

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
305	2.40
459	5.16
610	9.02
764	14.08
916	20.53

Test #: 436 Sample #: 6 Filter #: KF-1035 Housing #: 75-5101 Date Code: Operator: SD Report Date: 2/8/2017 Filter Mfg.: Housing Mfg.:



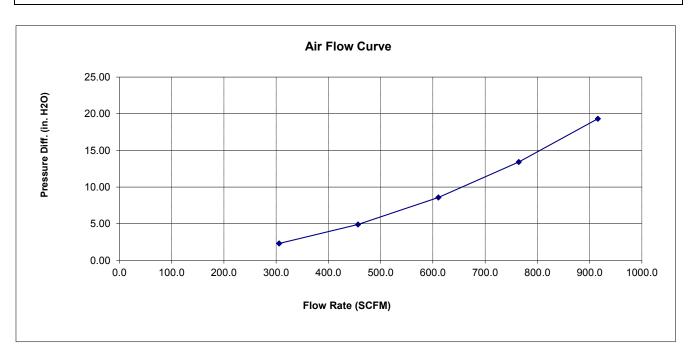
Test Description: 75-5102 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED

PLUG REMOVED, KF-1035

Test Conditions

Barometric Pressure: 28.96473 in. Hg
Air Flow Type: SCFM
Number of Pleats: Relative Humidity: 49 %
Temperature: 68 deg. F

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
306	2.30
457	4.90
611	8.57
764	13.42
916	19.32

Test #: 436
Sample #: 7
Filter #: KF-1035D
Housing #: 75-5102
Date Code:

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



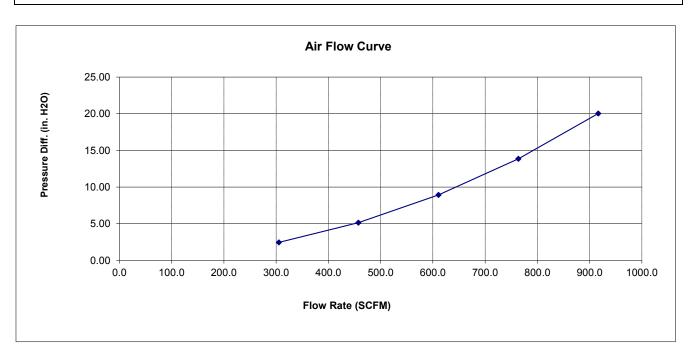
Test Description: 75-5102 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED

PLUG REMOVED, KF-1035D

Test Conditions

Barometric Pressure: 28.97173 in. Hg
Air Flow Type: SCFM
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
305	2.45
458	5.14
611	8.93
764	13.85
917	20.04

Test #: 436
Sample #: 8
Filter #: KF-1035D
Housing #: 75-5102
Date Code:

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



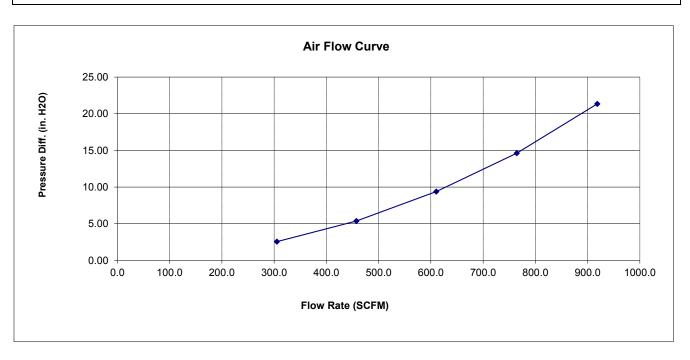
Test Description: 75-5102 PRODUCTION KIT, NO SENSOR, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED

PLUG INSTALLED, KF-1035D

Test Conditions

Barometric Pressure: 28.96577 in. Hg
Air Flow Type: SCFM
Number of Pleats: Pleat Depth: 49 %
Pleat Depth: 49 %
Relative Humidity: 49 %
Temperature: 68 deg. F

Flow Direction:



<u>Differential Pressure</u>
2.55
5.37
9.39
14.61
21.35

Air Filter Full Life Efficiency Test Report

Test #: 436 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 SENSORS, NO FILTER MINDER, ACDELCO A1618C

Test Conditions

Barometric Pressure: 28.985 in. Hg
Air Flow Setpoint: 612 SCFM

Test Procedure:

Air Flow Type: SCFM
Test Endpoint: 10 in. H2O

Number of Pleats: Flow Direction:

Relative Humidity: 49 %
Type of Dust: A4 COARSE
Batch #: 13228C

Temperature: 68 deg. F Initial Add Rate: NaN g/min Accumulative Add Rate: 17.33 g/min

Pleat Depth: in.

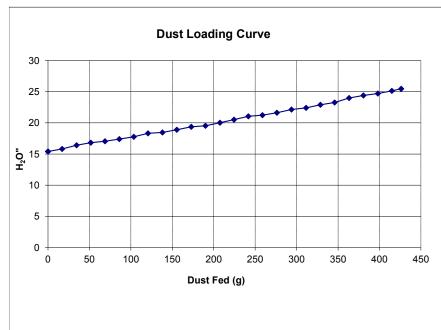
Test Results

Initial Delta P 15.29 in. H2O Accumulative Capacity: 425.00 g

Test Time: 24.64 min

	Initial		Accumulative)
		Blanket		Blanket
Start			3202.90	139.89
End			3627.90	143.47
Gain			425.00	3.58
Efficiency			99 16%	

Standard RestrictionPressure Differential



Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	15.402	
16.982	15.82	
34.482	16.411	
51.595	16.812	
68.736	17.038	
86.164	17.393	
103.612	17.765	
120.659	18.316	
138.07	18.47	
155.375	18.9	
172.828	19.361	
190.112	19.529	
207.526	20.016	
224.483	20.516	
241.792	21.057	
258.722	21.235	
276.197	21.622	
293.857	22.146	
311.512	22.403	
328.705	22.904	
345.865	23.271	
363.395	23.995	
380.686	24.394	
398.043	24.705	

Air Filter Full Life Efficiency Test Report

Test #: 436 Sample #: 9 Filter #: KF-1035D Housing #: 75-5102

Date Code:

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



Test Description: 75-5102 PRODUCTION KIT, NO SENSOR, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED

PLUG INSTALLED, KF-1035D

Test Conditions

Barometric Pressure: 28.945 in. Hg **Relative Humidity:** 48 % 612 SCFM Type of Dust: A4 COARSE Air Flow Setpoint: **Test Procedure:** Batch #: 13228C

Air Flow Type: 68 deg. F SCFM Temperature: **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 17.33 g/min Flow Direction: Pleat Depth: in.

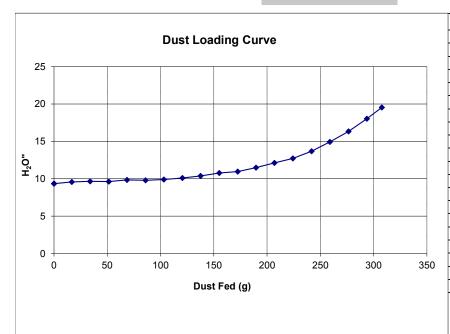
Test Results

Initial Delta P 9.34 in. H2O **Accumulative Capacity:** 307.00 g

Test Time: 17.81 min

	Initial		Accumulative)
		Blanket		Blanket
Start			4593.50	143.47
End			4900.50	144.15
Gain			307.00	0.68
Efficiency			99 78%	

Standard Restriction Pressure Differential



Dust Loading Curve Data			
Dust Fed (g)	Pressure ("H2O)		
0	9.342		
16.706	9.566		
33.958	9.659		
51.409	9.614		
68.483	9.844		
85.924	9.792		
103.073	9.899		
120.524	10.089		
137.578	10.373		
155.202	10.77		
172.427	10.952		
189.672	11.475		
206.961	12.115		
224.222	12.721		
241.775	13.672		
258.978	14.916		
276.469	16.332		
293.622	18.031		
307.716	19.531		
	·		

Air Filter Full Life Efficiency Test Report

Test #: 436 **Sample #:** 10 Filter #: KF-1035 Housing #: 75-5102 Date Code:

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



Test Description: 75-5102 PRODUCTION KIT, NO SENSOR, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED

PLUG INSTALLED, KF-1035

Test Conditions

28.958 in. Hg **Barometric Pressure: Relative Humidity:** 49 % 612 SCFM Type of Dust: A4 COARSE Air Flow Setpoint: **Test Procedure:** Batch #: 13228C

Air Flow Type: 68 deg. F SCFM Temperature: **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 17.33 g/min Flow Direction: Pleat Depth: in.

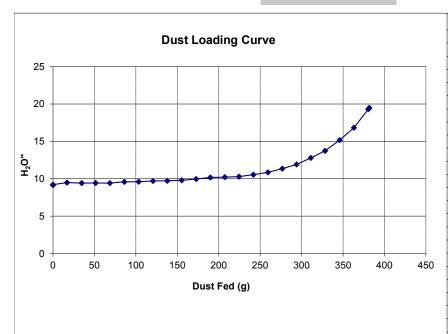
Test Results

Initial Delta P 9.16 in. H2O **Accumulative Capacity:** 377.20 g

Test Time: 22.09 min

	Initial		Accumulative)
		Blanket		Blanket
Start			4635.80	144.15
End			5013.00	145.95
Gain			377.20	1.80
Efficiency			99 52%	

Standard Restriction Pressure Differential



Dust Loading Curve Data			
Dust Fed (g)	Pressure ("H2O)		
0	9.207		
16.932	9.483		
34.594	9.42		
51.526	9.428		
68.604	9.407		
86.148	9.576		
103.315	9.606		
120.679	9.697		
137.906	9.718		
155.312	9.796		
172.73	9.956		
189.956	10.16		
207.313	10.214		
224.43	10.292		
241.805	10.549		
259.339	10.842		
276.752	11.338		
294.021	11.908		
311.185	12.788		
328.335	13.718		
345.909	15.162		
363.241	16.828		
380.484	19.301		
381.772	19.473		

