

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

Part Number: 75-5080, 75-5080D

**Description:** Performance Intake Kit & Filter

**Vehicle Applications:** 2006–2007 Chevrolet/GMC 6.6L Duramax

LLY-LBZ

**Test Date:** 11/18/16

**Test Report** #: 22, 23, 26, 27,

28, 29, 31, 32

#### **TECHNICAL BULLETIN**

(Secondary Inlet - Closed)

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 50.15% 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 @ 653 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	50.15%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	42.54%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	48.39%
S&B Intake w/ Dry Filter	42.54%

#### **TEST CONDITIONS**

Barometric Pressure	28.98
Airflow Setpoint	653 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13099C
Dust Feed Rate (grams/minute)	18.49

## 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 @ 653 cfm)	
Stock	99.78%	
S&B Intake w/ Cleanable Filter	99.41%	
S&B Intake w/ Dry Filter	99.44%	

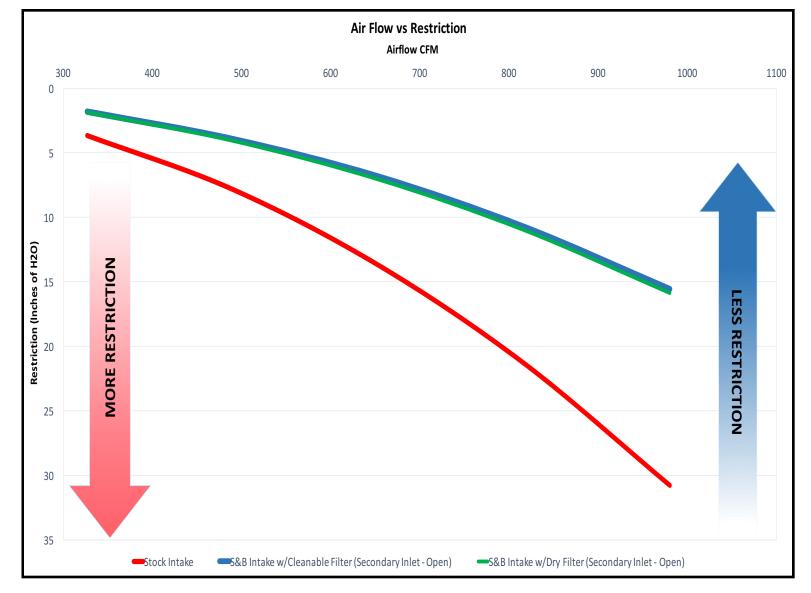
### WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers.

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.









411 Operator: SD Test #: Report Date: 11/18/2016 **Sample #: 22** 

Filter #: ACDELCO A3087C Filter Mfg.: Housing #:

Housing Mfg.: Date Code:

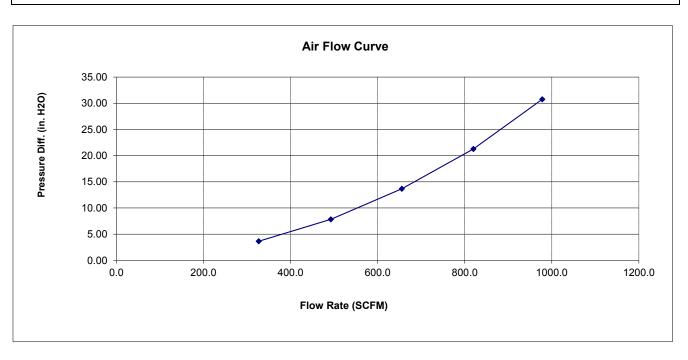


Test Description: STOCK INTAKE & FILTER, NO SENSORS

**Test Conditions** 

Barometric Pressure: 28.85521 in. Hg **Relative Humidity:** 50 % Air Flow Type: Temperature: 70 deg. F SCFM Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
327	3.65
493	7.82
656	13.68
820	21.27
978	30.76

Test #: 411 Sample #: 26 Filter #: KF-1035 Housing #: 75-5080 Date Code: Operator: SD Report Date: 11/18/2016

Filter Mfg.: Housing Mfg.:

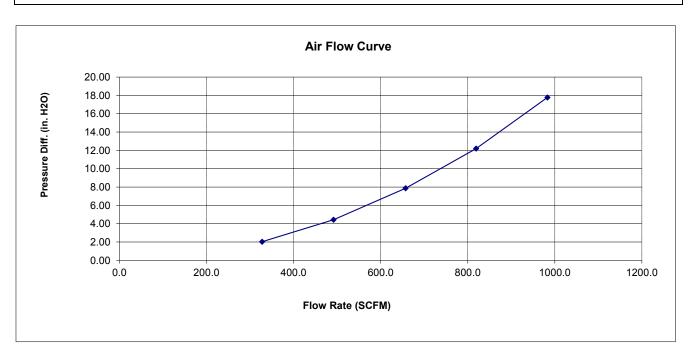


Test Description: 75-5080 PRODUCTION KIT, NO SENSORS, PLUG INSTALLED, LID ON, KF-1035 SILICONE

**Test Conditions** 

Barometric Pressure: 28.94294 in. Hg Relative Humidity: 50 %
Air Flow Type: SCFM Temperature: 67 deg. F
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
328	2.04		
492	4.44		
658	7.86		
820	12.21		
983	17.78		

Test #: 411
Sample #: 27
Filter #: KF-1035
Housing #: 75-5080
Date Code:

Operator: SD Report Date: 11/18/2016

Filter Mfg.: Housing Mfg.:

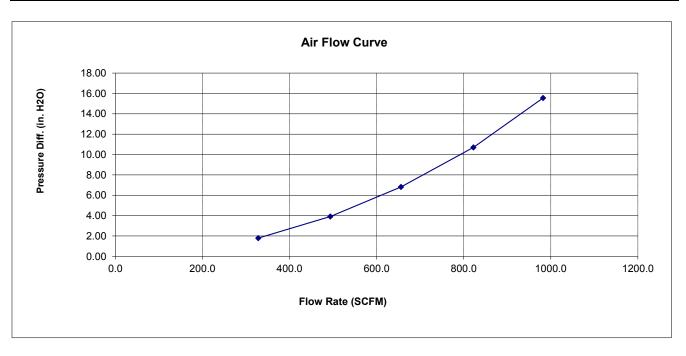


Test Description: 75-5080 PRODUCTION KIT, NO SENSORS, PLUG REMOVED, LID ON, KF-1035 SILICONE

**Test Conditions** 

Barometric Pressure: 28.93618 in. Hg Relative Humidity: 50 %
Air Flow Type: SCFM Temperature: 67 deg. F
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
328	1.79		
494	3.92		
656	6.82		
823	10.71		
982	15.55		

Test #: 411 Sample #: 28 Filter #: KF-1035D Housing #: 75-5080

Date Code:

Operator: SD Report Date: 11/18/2016

Filter Mfg.: Housing Mfg.:

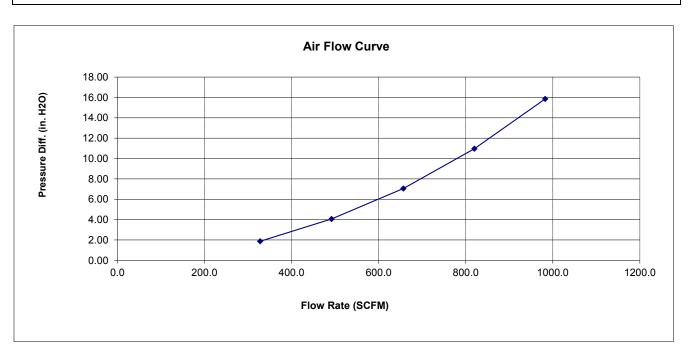


Test Description: 75-5080 PRODUCTION KIT, NO SENSORS, PLUG REMOVED, LID ON, KF-1035D SILICONE

**Test Conditions** 

Barometric Pressure: 28.90779 in. Hg
Air Flow Type: SCFM
Number of Pleats: Fleat Depth: 53 %
Pleat Depth: 53 %
Temperature: 68 deg. F

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
328	1.87		
492	4.07		
657	7.06		
820	10.97		
983	15.86		

Test #: 411 Sample #: 29 Filter #: KF-1035D Housing #: 75-5080

Date Code:

Operator: SD Report Date: 11/18/2016

Filter Mfg.: Housing Mfg.:

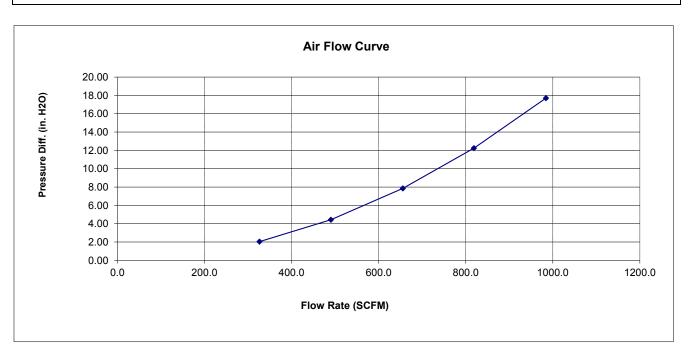


Test Description: 75-5080 PRODUCTION KIT, NO SENSORS, PLUG IN, LID ON, KF-1035D SILICONE

**Test Conditions** 

Barometric Pressure: 28.90309 in. Hg Relative Humidity: 50 %
Air Flow Type: SCFM Temperature: 68 deg. F
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
327	2.04		
491	4.43		
656	7.86		
819	12.25		
984	17.71		

## Air Filter Full Life Efficiency Test Report

Operator: SD Test #: 411 Sample #: 23 **Report Date:** 11/18/2016

Filter Mfg.: Filter #: ACDELCO A3087C Housing #: Housing Mfg.:

Date Code:



Test Description: STOCK INTAKE AND FILTER, NO SENSORS

Test Conditions

**Barometric Pressure:** 28.878 in. Hg **Relative Humidity:** 50 % Type of Dust: A4 COARSE 653 SCFM Air Flow Setpoint:

**Test Procedure:** Batch #: 13099C

Air Flow Type: SCFM Temperature: 67 deg. F **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 18.49 g/min Flow Direction:

Pleat Depth: in.

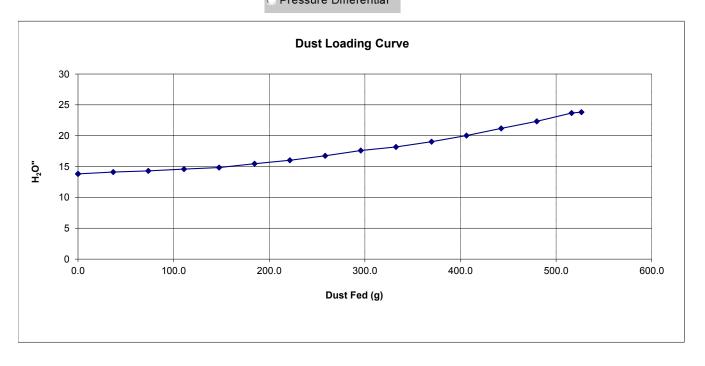
Test Results

Initial Delta P 13.78 in. H2O **Accumulative Capacity:** 528.70 g

**Test Time:** 28.55 min

	Initial		Accumulative	
		Blanket		Blanket
Start			3354.60	137.46
End			3883.30	138.61
Gain			528.70	1.15
Efficiency			99.78%	

Standard Restriction Pressure Differential



## Air Filter Full Life Efficiency Test Report

Test #: 411 Sample #: 31 Filter #: KF-1035D Housing #: 75-5080

Date Code:

Operator: SD **Report Date:** 11/18/2016

Filter Mfg.: Housing Mfg.:



50 %

69 deg. F

NaN g/min

Test Description: 75-5090 PRODUCTION KIT, NO SENSORS, PLUG IN, LID ON, KF-1035D SILICONE

**Test Conditions** 

**Barometric Pressure:** 28.896 in. Hg **Relative Humidity:** 653 SCFM Air Flow Setpoint: Type of Dust: A4 COARSE **Test Procedure:** Batch #: 13099C

SCFM Air Flow Type: Temperature: **Test Endpoint:** 10 in. H2O **Initial Add Rate: Number of Pleats: Accumulative Add Rate:** Flow Direction:

18.49 g/min in.

Pleat Depth:

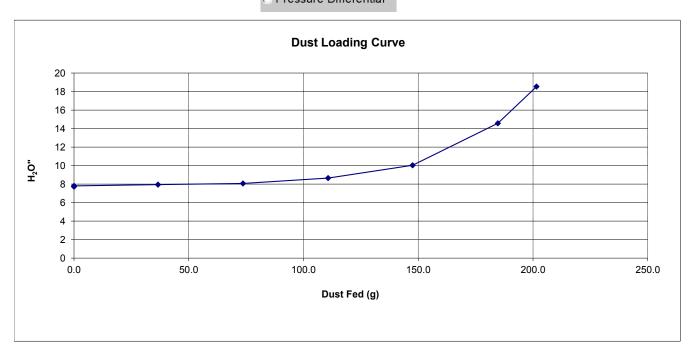
Test Results

Initial Delta P 7.77 in. H2O **Accumulative Capacity:** 202.10 g

**Test Time:** 10.93 min

	Initial	Initial Accumulative		;
		Blanket		Blanket
Start			4310.50	141.50
End			4512.60	142.63
Gain			202.10	1.13
Efficiency			99 44%	

Standard Restriction Pressure Differential



## Air Filter Full Life Efficiency Test Report

Test #: 411 **Sample #:** 32 Filter #: KF-1035 Housing #: 75-5080

Date Code:

Operator: SD **Report Date:** 11/18/2016

Filter Mfg.: Housing Mfg.:



50 %

Test Description: 75-5080 PRODUCTION KIT, NO SENSORS, PLUG IN, LID ON, KF-1035 SILICONE

**Test Conditions** 

**Barometric Pressure:** 28.908 in. Hg 653 SCFM Air Flow Setpoint:

**Test Procedure:** 

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

**Number of Pleats:** Flow Direction:

**Relative Humidity:** Type of Dust: A4 COARSE Batch #: 13099C

69 deg. F Temperature: **Initial Add Rate:** NaN g/min **Accumulative Add Rate:** 18.49 g/min

Pleat Depth: in.

Test Results

Initial Delta P 7.78 in. H2O **Accumulative Capacity:** 268.20 g

**Test Time:** 14.61 min

	Initial		Accumulative	
		Blanket		Blanket
Start			4360.90	142.63
End			4629.10	144.22
Gain			268.20	1.59
Efficiency			99.41%	

Standard Restriction Pressure Differential

