



Automotive & Powersports THE FACTS ABOUT YOUR INTAKE & AIR

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

Part Number: 75-5050, 75-5050D
Description: Performance Intake Kit & Filter
Vehicle Applications: 2009-2010 Ford F-150, Raptor 5.4L

Test Date: 05/17/17
Test Report #: 1, 2, 3, 4, 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 36.84% 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 @ 381 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	36.84%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	11.00%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	34.29%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	7.66%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	381 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13240C
Dust Feed Rate (grams/minute)	10.79

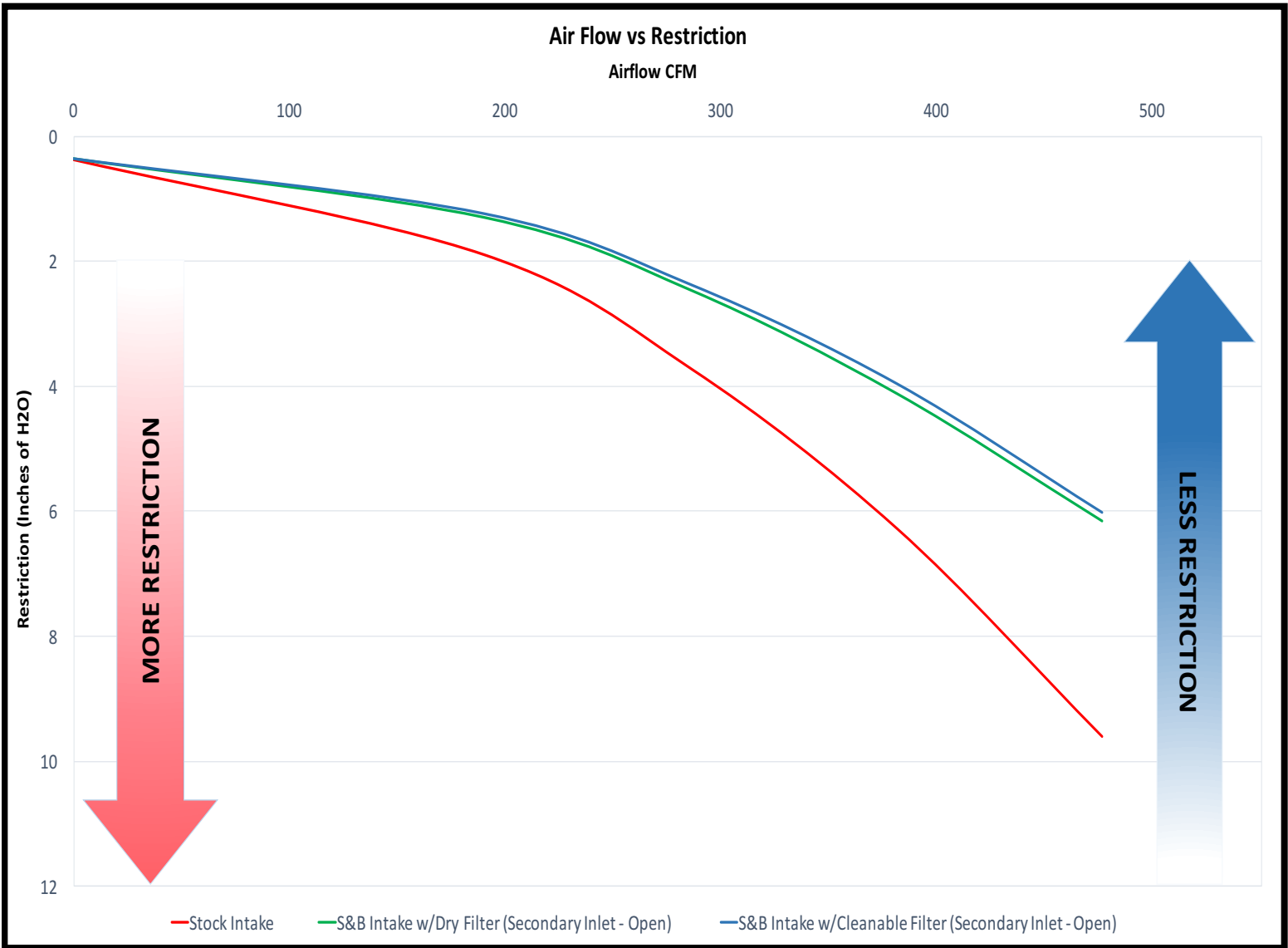
FACT: S&B Protects Your Engine

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 @ 381 cfm)
Stock	99.69%
S&B Intake w/ Cleanable Filter	99.28%
S&B Intake w/ Dry Filter	99.56%

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 #: 455
Sample #: 1
Filter #: FA-1883
Housing #:
Date Code:

Operator: SD
Report Date: 5/17/2017
Filter Mfg.:
Housing Mfg.:



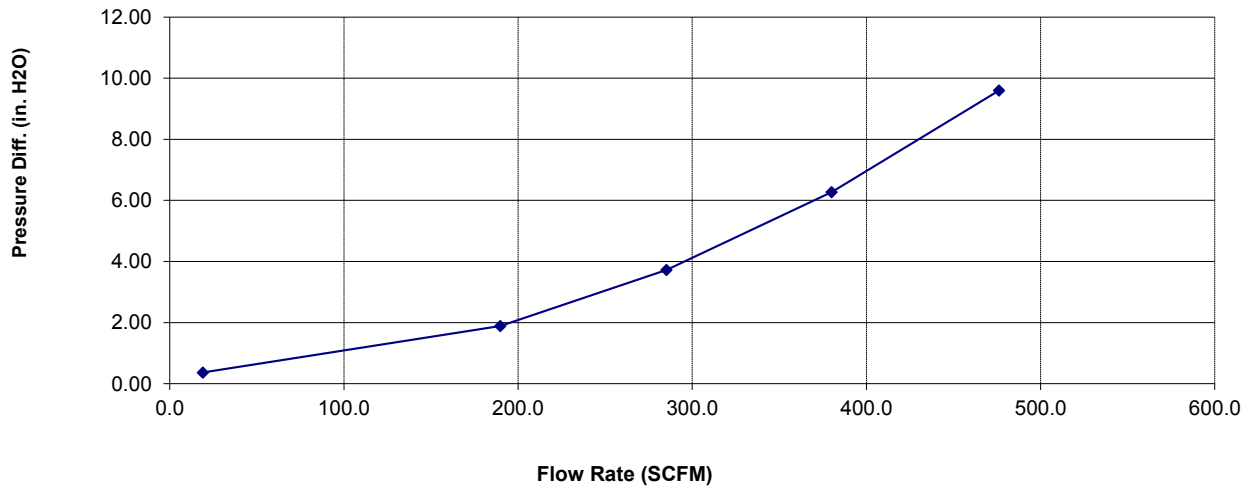
Test Description: STOCK INTAKE AND FILTER, NO SENSORS, FILTER# FA-1883

Test Conditions

Barometric Pressure: 28.8833 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 49 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
19	0.37
190	1.89
285	3.72
380	6.27
476	9.60

Air Filter Restriction Test Report

Test #: 455
Sample #: 3
Filter #: KF-1035
Housing #: 75-5050
Date Code:

Operator: SD
Report Date: 5/17/2017
Filter Mfg.:
Housing Mfg.:



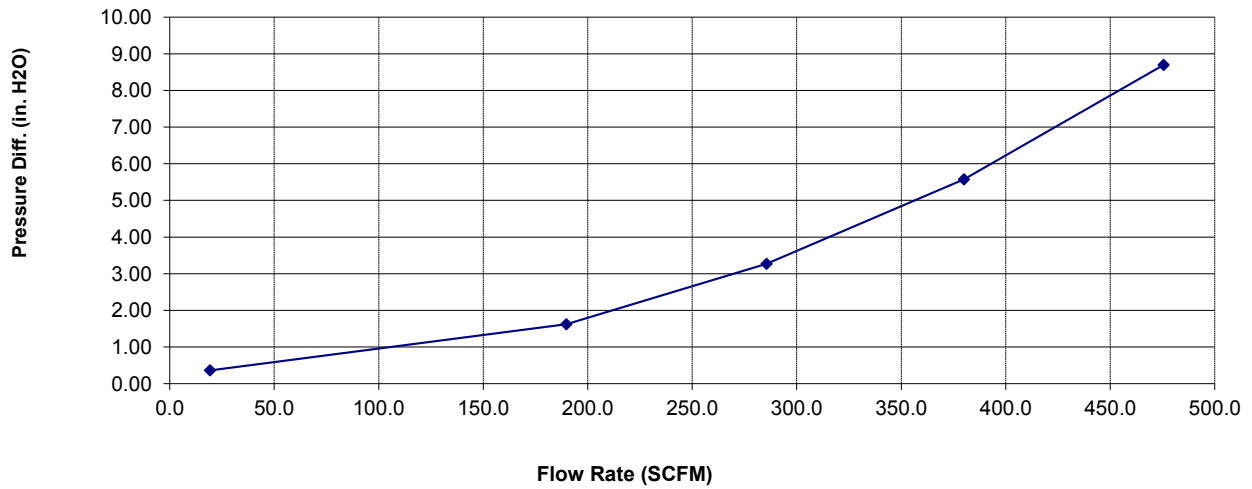
Test Description: 75-5050 PRODUCTION KIT, NO SENSOR, PLUG INSTALLED, KF-1035

Test Conditions

Barometric Pressure: 28.87263 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 49 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
19	0.36
190	1.63
286	3.27
380	5.58
476	8.70

Air Filter Restriction Test Report

Test #: 455
Sample #: 4
Filter #: KF-1035
Housing #: 75-5050
Date Code:

Operator: SD
Report Date: 5/17/2017
Filter Mfg.:
Housing Mfg.:



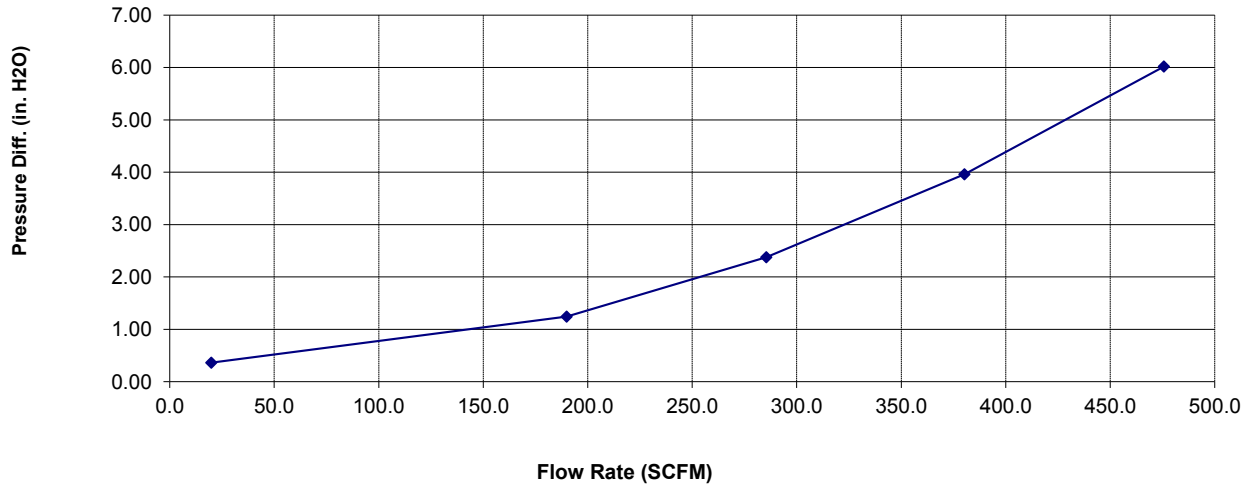
Test Description: 75-5050 PRODUCTION KIT, NO SENSOR, PLUG REMOVED, KF-1035

Test Conditions

Barometric Pressure: 28.86879 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 49 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
20	0.36
190	1.24
285	2.38
380	3.96
476	6.02

Air Filter Restriction Test Report

Test #: 455
Sample #: 6
Filter #: KF-1035D
Housing #: 75-5050
Date Code:

Operator: SD
Report Date: 5/17/2017
Filter Mfg.:
Housing Mfg.:



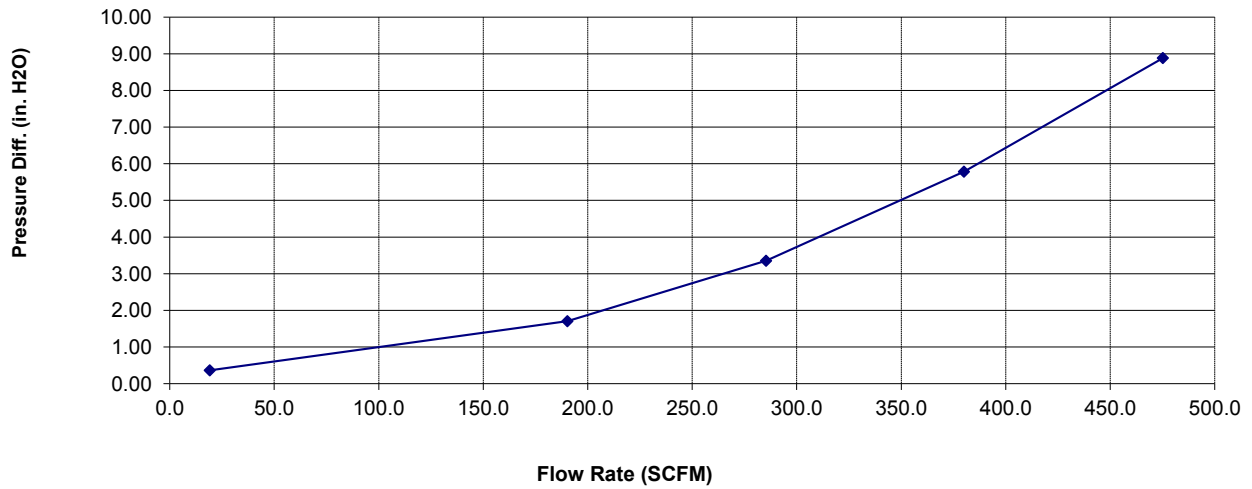
Test Description: 75-5050 PRODUCTION KIT, NO SENSOR, PLUG INSTALLED, KF-1035D

Test Conditions

Barometric Pressure: 28.81397 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 48 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
19	0.36
190	1.70
285	3.35
380	5.79
475	8.88

Air Filter Restriction Test Report

Test #: 455
Sample #: 7
Filter #: KF-1035D
Housing #: 75-5050
Date Code:

Operator: SD
Report Date: 5/17/2017
Filter Mfg.:
Housing Mfg.:



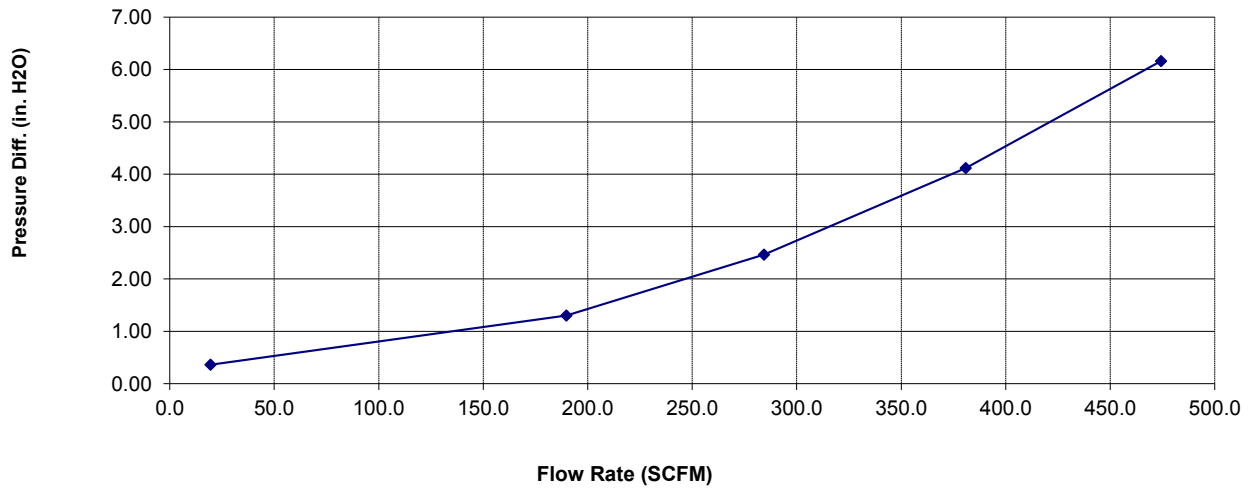
Test Description: 75-5050 PRODUCTION KIT, NO SENSOR, PLUG REMOVED, KF-1035D

Test Conditions

Barometric Pressure: 28.80711 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 48 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
20	0.36
190	1.30
284	2.47
381	4.12
474	6.16









