



Automotive & Powersports

THE FACTS ABOUT YOUR INTAKE & AIR FILTER

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

Part Number:	Test Date:
Description:	Test Report #:
Vehicle Applications:	

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!

<p>FACT: S&B Flows _____ 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.</p>	<p>WATCH OUT: Some competitors overstate airflow. If they state that their filter will flow, let's say 1000 cfm, without stating at what restriction level, they are trying to mislead you.</p>
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Description	% S&B Flowed Better than Stock (tested @ _____ cfm)	Test Conditions
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)		Barometric Pressure
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)		Airflow Setpoint
S&B Intake w/ Dry Filter (Secondary Inlet - Open)		Relative Humidity
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)		Temperature
		Type of Dust
		Batch #
		Dust Feed Rate (grams/minute)

<p>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</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Efficiency Rate (Tested @ _____ cfm)</th> </tr> </thead> <tbody> <tr> <td>Stock</td> <td></td> </tr> <tr> <td>S&B Intake w/ Cleanable Filter</td> <td></td> </tr> <tr> <td>S&B Intake w/ Dry Filter</td> <td></td> </tr> </tbody> </table>	Description	Efficiency Rate (Tested @ _____ cfm)	Stock		S&B Intake w/ Cleanable Filter		S&B Intake w/ Dry Filter		<p>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</p>
Description	Efficiency Rate (Tested @ _____ cfm)									
Stock										
S&B Intake w/ Cleanable Filter										
S&B Intake w/ Dry Filter										

RESET FORM

Air Filter Restriction Test Report

Test #: 886-R75pleat190gNBP
Sample #:
Filter #: KF-1085, 75 pleats, 190g oil
Housing #: 75-5085 with Snap-In Lid
Date Code:

JM
5/31/2023



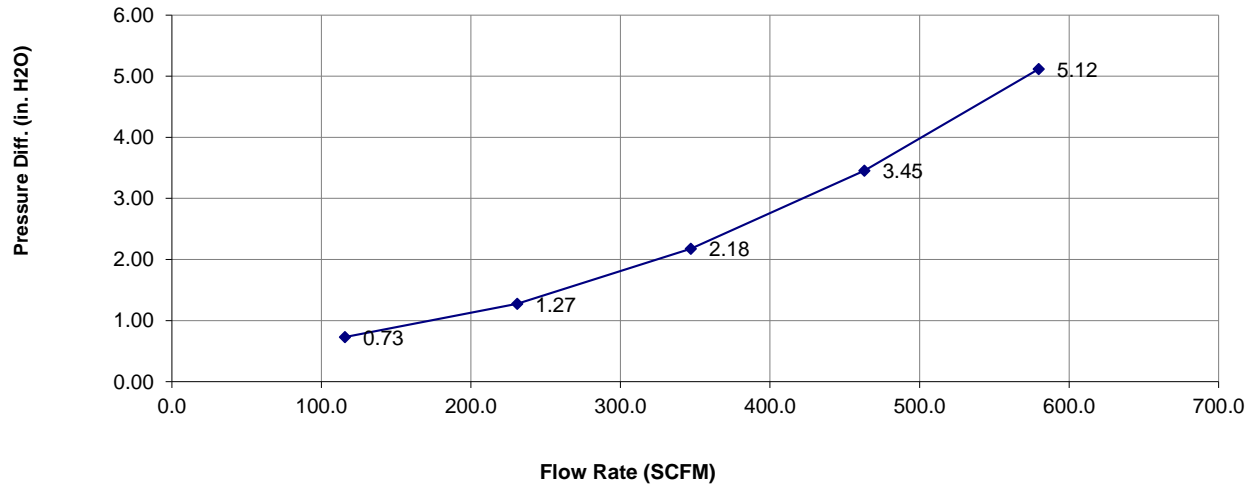
Test Description: 75-5085 with Snap-In Lid, KF-1085 75 pleat 190g oil, MAF Plug, No Box Plug

Test Conditions

Barometric Pressure: 28.79079 in. Hg
Air Flow Type: SCFM
Number of Pleats: 75
Flow Direction:

Relative Humidity: 54 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
116	0.73
231	1.27
347	2.18
463	3.45
580	5.12

Air Filter Restriction Test Report

Test #: 886-R75pleat190g
Sample #:
Filter #: KF-1085, 75 pleats, 190g oil
Housing #: 75-5085 with Snap-In Lid
Date Code:

JM
5/31/2023



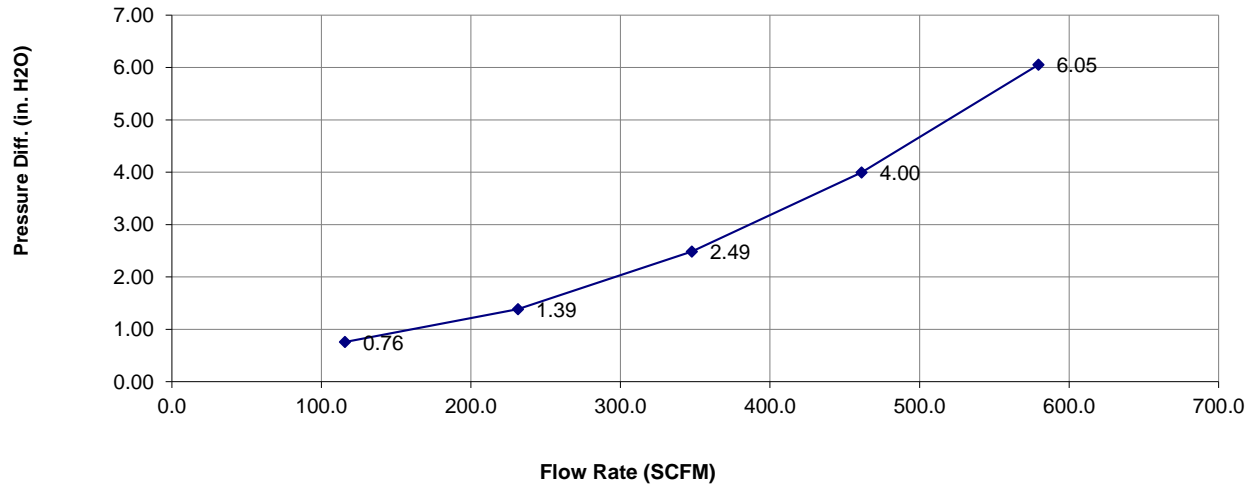
Test Description: 75-5085 with Snap-In Lid, KF-1085 75 pleat 190g oil, MAF Plug, Box Plug

Test Conditions

Barometric Pressure: 28.78773 in. Hg
Air Flow Type: SCFM
Number of Pleats: 75
Flow Direction:

Relative Humidity: 53 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
116	0.76
231	1.39
348	2.49
461	4.00
579	6.05

Air Filter Restriction Test Report

Test #: 886-R115pleat27gNBP
Sample #:
Filter #: KF-1085D, 115 pleats, 27g oil
Housing #: 75-5085 with Snap-In Lid
Date Code:

JM
4/27/2023



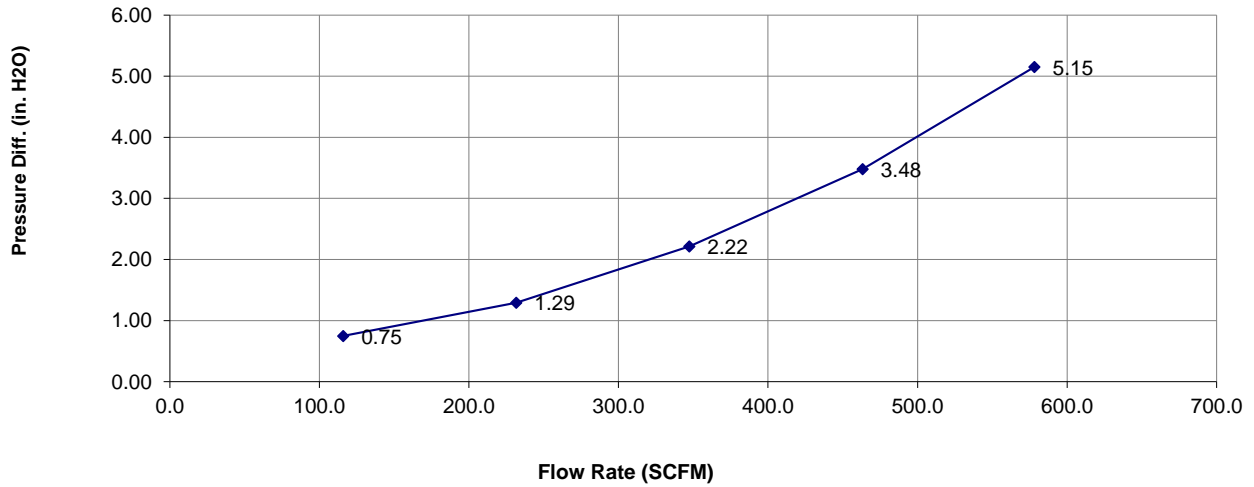
Test Description: 75-5085 with Snap-In Lid, KF-1085D 115 pleat 27g oil, MAF Plug, NO Box Plug

Test Conditions

Barometric Pressure: 28.80624 in. Hg
Air Flow Type: SCFM
Number of Pleats: 115
Flow Direction:

Relative Humidity: 53 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
116	0.75
232	1.29
347	2.22
463	3.48
578	5.15

Air Filter Restriction Test Report

Test #: 886-R115pleat27g
Sample #:
Filter #: KF-1085D, 115 pleats, 27g oil
Housing #: 75-5085 with Snap-In Lid
Date Code:

JM
4/27/2023



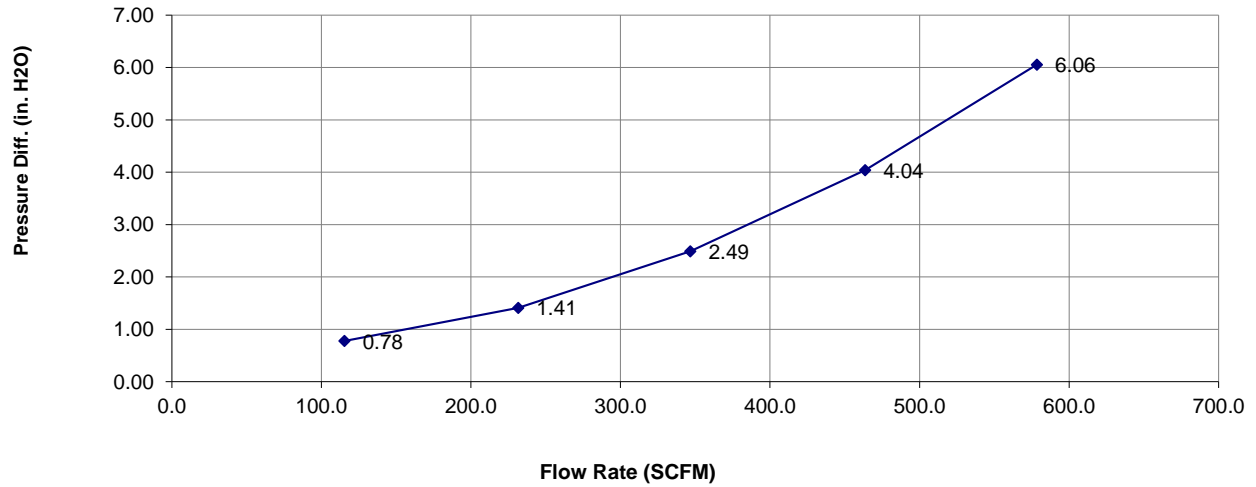
Test Description: 75-5085 with Snap-In Lid, KF-1085D 115 pleat 27g oil, MAF Plug, Box Plug

Test Conditions

Barometric Pressure: 28.81748 in. Hg
Air Flow Type: SCFM
Number of Pleats: 115
Flow Direction:

Relative Humidity: 54 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve

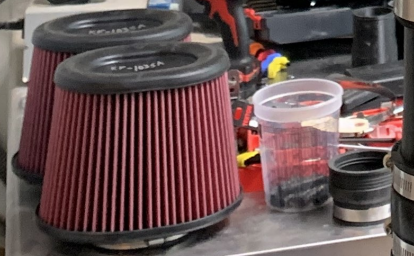
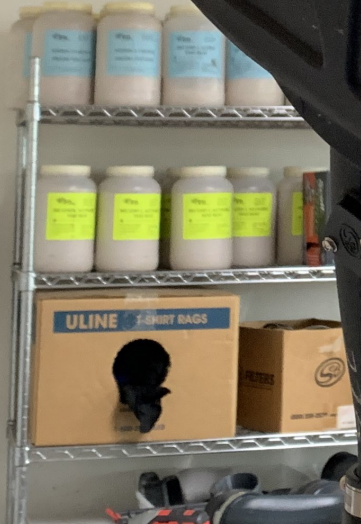


Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
115	0.78
232	1.41
347	2.49
464	4.04
578	6.06









CAUTION

Control Panel

1111 62

1571

Air Filter Restriction Test Report

Test #: 753
Sample #: 15
Filter #: FA-1927
Housing #: 17-19 POWERSTROKE STOCK
Date Code: 43636

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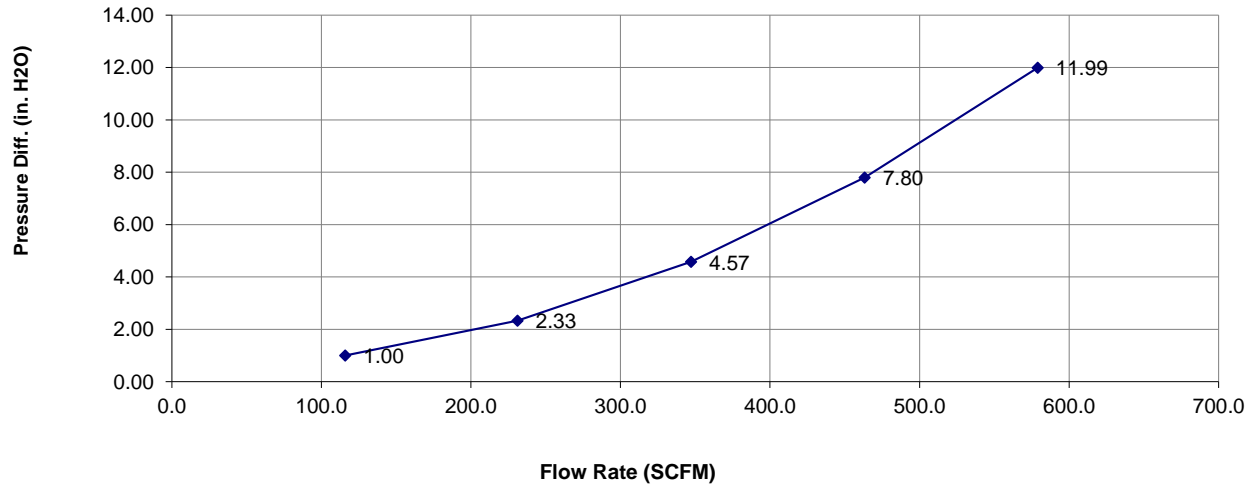
Test Description: STOCK AIRBOX AND FILTER RESTRICTION

Test Conditions

Barometric Pressure: 28.8439 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 50 %
Temperature: 77 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
116	1.00
231	2.33
347	4.57
463	7.80
579	11.99

Air Filter Full Life Efficiency Test Report

Test #: 438
Sample #: 2
Filter #: FA-1927
Housing #:
Date Code:

Operator: SD
Report Date: 8/10/2017
Filter Mfg.:
Housing Mfg.:



Test Description: STOCK INTAKE AND FILTER, NO SENSOR, FILTER MINDER INSTALLED, SNORKEL INSTALLED

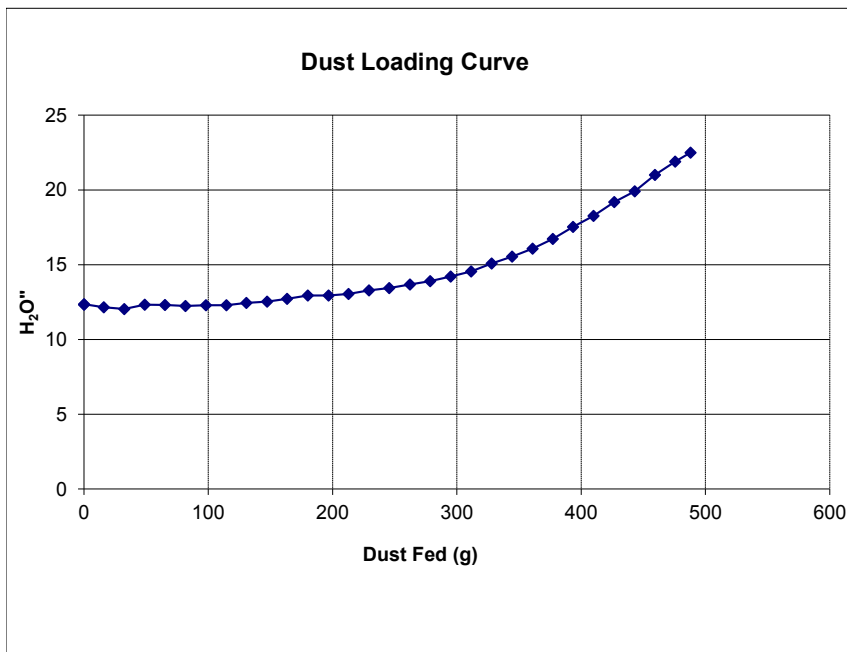
Test Conditions			
Barometric Pressure:	28.761 in. Hg	Relative Humidity:	48 %
Air Flow Setpoint:	580 SCFM	Type of Dust:	A4 COARSE
Test Procedure:		Batch #:	13240C
Air Flow Type:	SCFM	Temperature:	68 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	16.42 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	12.46 in. H2O	Accumulative Capacity:	487.30 g
		Test Time:	29.74 min

	Initial		Accumulative	
		Blanket		Blanket
Start			5467.70	147.67
End			5955.00	148.94
Gain			487.30	1.27
Efficiency			99.74%	

Standard Restriction

Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	12.355
15.986	12.155
32.326	12.036
48.844	12.329
65.125	12.298
81.58	12.236
98.029	12.282
114.551	12.283
130.726	12.436
147.234	12.531
163.49	12.712
180.131	12.931
196.67	12.936
212.895	13.043
229.33	13.276
245.488	13.438
262.295	13.676
278.605	13.903
295.055	14.199
311.379	14.542
327.957	15.085
344.342	15.536
360.887	16.075
377.182	16.73



