



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		Barometric Pressure
		Airflow Setpoint
		Relative Humidity
		Temperature
S&B Intake w/ Dry Filter		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										

Air Filter Restriction Test Report

Test #: 881-2R
Sample #: 2R
Filter #: KF-1084
Housing #:
Date Code: 44903

DC
12/8/2022



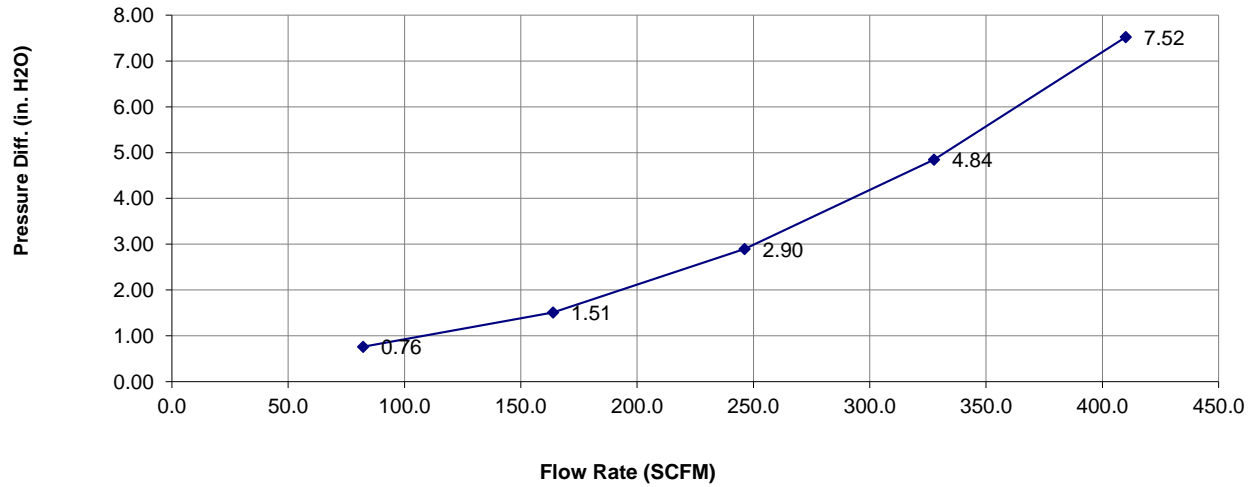
Test Description: 2020-2022 JEEP WRANGLER/GLADIATOR 3.0L DIESEL S&B 75-5145

Test Conditions

Barometric Pressure: 29.07348 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 55 %
Temperature: 70 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
82	0.76
164	1.51
246	2.90
328	4.84
410	7.52

Air Filter Restriction Test Report

Test #: 881-1R
Sample #: 1R
Filter #:
Housing #:
Date Code: 44903

DC
12/8/2022



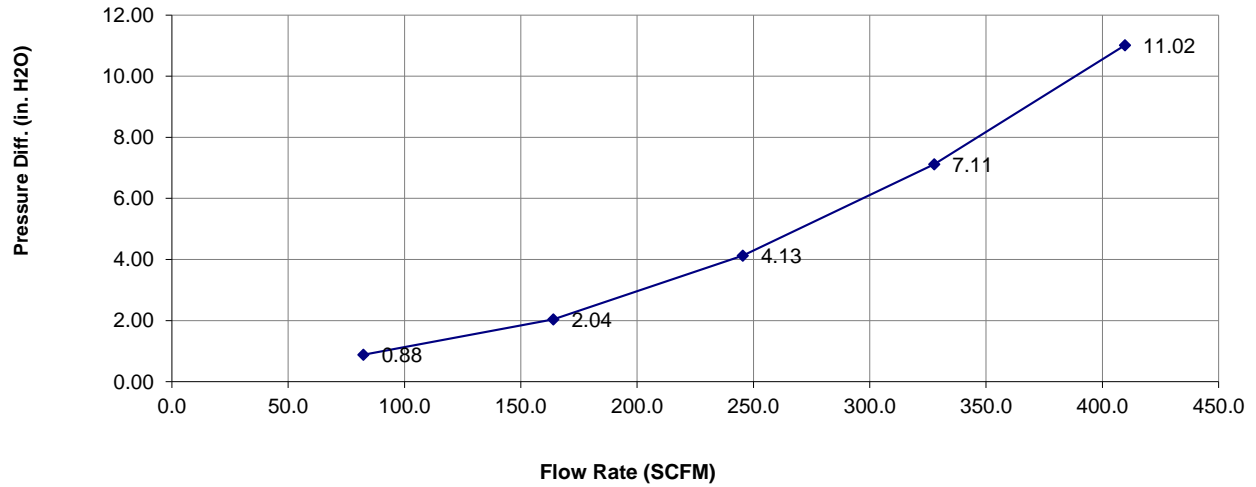
Test Description: 2020-2022 JEEP WRANGLER/GLADIATOR 3.0L DIESEL STOCK RESTRICTION

Test Conditions

Barometric Pressure: 29.10084 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 56 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
82	0.88
164	2.04
245	4.13
328	7.11
410	11.02

Air Filter Restriction Test Report

Test #: 881-3R
Sample #: 3R
Filter #: KF-1084
Housing #:
Date Code: 44903

DC
12/8/2022
S&B
S&B



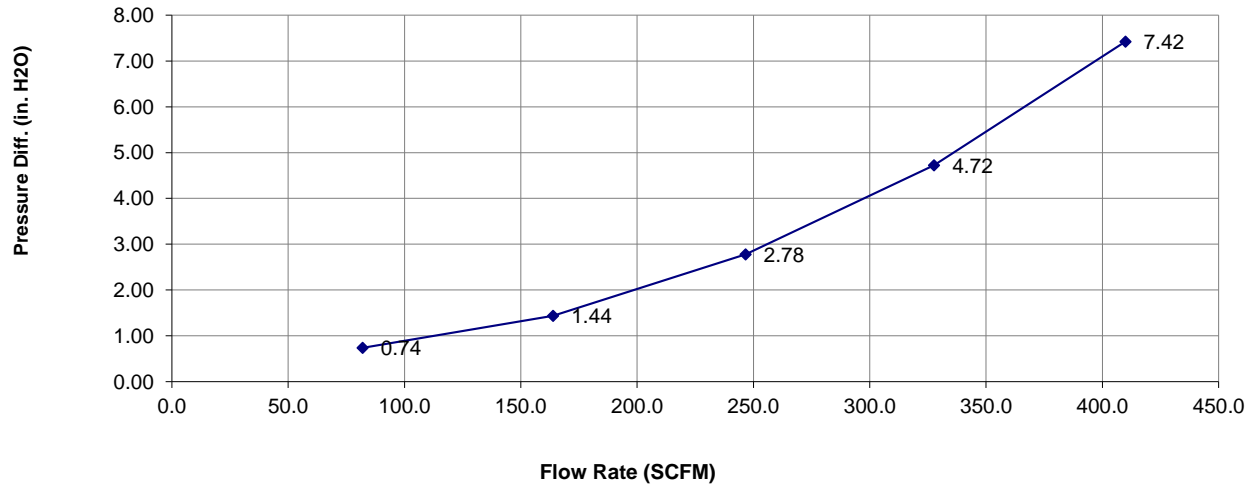
Test Description: 2020-2022 JEEP WRANGLER/GLADIATOR 3.0L DIESEL S&B 75-5145 KF-1084

Test Conditions

Barometric Pressure: 29.04911 in. Hg
Air Flow Type: SCFM
Number of Pleats: 60
Flow Direction:

Relative Humidity: 56 %
Temperature: 69 deg. F
Pleat Depth: 6 in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
82	0.74
164	1.44
247	2.78
328	4.72
410	7.42

Air Filter Full Life Efficiency Test Report

Test #: 881-8CE
Sample #: 8CE
Filter #: 75-5145 (OEM)
Housing #:
Date Code: 44904

Operator: JJ
Report Date: 12/9/2022
Filter Mfg.:
Housing Mfg.:



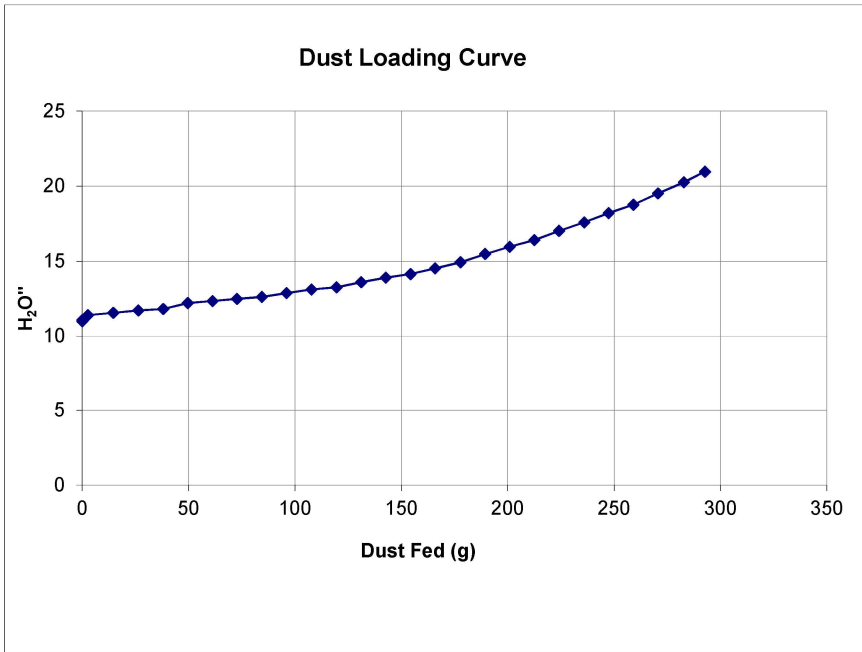
Test Description: 2020-2022 JEEP WRANGLER/GLADIATOR 3.0L DIESEL / 411 CFM / EFFICIENCY AND CAPACITY / OEM

Test Conditions			
Barometric Pressure:	28.951 in. Hg	Relative Humidity:	58 %
Air Flow Setpoint:	411 SCFM	Type of Dust:	A4 COARSE
Test Procedure:	FICIENCY	Batch #:	14057C
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:	11.64 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	2.66 in. H2O	Accumulative Capacity:	289.30 g
		Test Time:	25.20 min

	Initial		Accumulative	
		Blanket		Blanket
Start			3333.00	592.52
End			3622.30	593.16
Gain			289.30	0.64
Efficiency			99.78%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure (in. H2O)
0	11.006
0	11.089
2.639	11.422
14.599	11.566
26.395	11.731
37.995	11.829
49.611	12.226
61.26	12.349
72.753	12.485
84.397	12.626
96.068	12.891
107.709	13.131
119.486	13.256
131.099	13.612
142.694	13.912
154.303	14.153
165.879	14.536
177.802	14.938
189.341	15.497
200.921	15.964
212.544	16.417
224.074	17.029
235.916	17.595
247.44	18.204



