

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 #:	
Ve	hicle 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!

FACT: S&B	Flows_	Better	than S	Stock.	WATCH	

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 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.

Description	% S&B Flowed Better than	Test Conditions
	Stock (tested @cfm)	Barometric Pressure
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)		Airflow Setpoint
S&B Intake w/ Cleanable Filter		Relative Humidity
(Secondary Inlet - Closed)		Temperature
S&B Intake w/ Dry Filter	1/4.50	Type of Dust
(Secondary Inlet - Open		Batch #
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)		Dust Feed Rate (grams/minute)

FACT: S&B Protects Your Engine

S&B Tests at the highest rated CFM for your vehicle when determining the efficienty rate (amount of dust the filter stops), so that we can be sure that your engine will be protected

Description	(Tested @cfm,
Stock	
S&B Intake w/ Cleanable Filter	
S&B Intake w/ Dry Filter	

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 Full Life Efficiency Test Report

Test #: 793-01CE Sample #:

Filter #: Housing #: **Date Code: 43899**

Operator: DC Report Date: 3/9/2020 Filter Mfg.: Chrysler Housing Mfg.: Chrysler



Test Description: 19-20 Ram Hemi stock capacity and efficiency

Test Conditions

Barometric Pressure: 28.871 in. Hg 633 SCFM Air Flow Setpoint: **Test Procedure:** CE Air Flow Type: SCFM

Test Endpoint: 10 in. H2O

Number of Pleats: Flow Direction:

Relative Humidity: 37 % Type of Dust: A4 Coarse

Batch #: 14057C 71 deg. F Temperature:

Initial Add Rate: NaN g/min 17.92 g/min Accumulative Add Rate:

Pleat Depth: in.

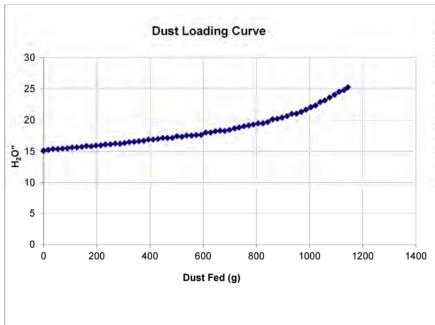
Test Results

14.96 in. H2O Initial Delta P

Accumulative Capacity: 1125.80 g Test Time: 63.79 min

	Initial		Accumulative)
		Blanket		Blanket
Start			2818.30	585.97
End			3944.10	587.82
Gain			1125.80	1.85
Efficiency			99.84%	

 Standard Restriction Pressure Differential



Dust Loading Curve Data		
Pressure ("H2O)		
15.079		
15.276		
15.424		
15.429		
15.485		
15.541		
15.663		
15.675		
15.78		
15.889		
15.859		
15.985		
15.989		
16.151		
16.169		
16.281		
16.251		
16.38		
16.508		
16.565		
16.676		
16.754		
16.93		
16.925		



Air Filter Full Life Efficiency Test Report

Test #: 795-05CE Sample #: 2 Filter #: KF-1078 Housing #: AL1358B-00 Date Code: 43902 Operator: DC Report Date: 3/12/2020 Filter Mfg.: S&B Housing Mfg.: S&B



Test Description: 19-20 RAM HEMI 6.4L 75-5133 KF-1078 85 PLEATS 180 GRAMS OIL

Test Conditions

Barometric Pressure: 28.674 in. Hg Relative Humidity: 46 % 633 SCFM Air Flow Setpoint: Type of Dust: A4 COARSE **Test Procedure:** CE Batch #: 14057C Air Flow Type: SCFM Temperature: 70 deg. F **Test Endpoint:** 10 in. H2O Initial Add Rate: NaN g/min **Number of Pleats:** 85 Accumulative Add Rate: 17.92 g/min Flow Direction: Pleat Depth: 1 in.

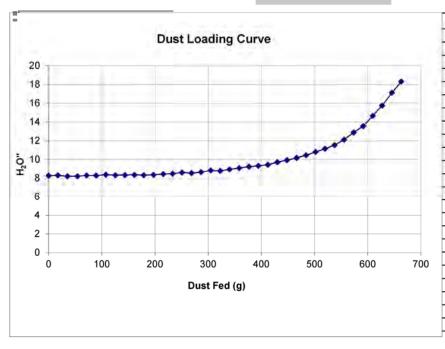
Test Results

Initial Delta P 8.11 in. H2O Accumulative Capacity: 516.30 g

Test Time: 37.03 min

	Initial		Accumulative)
		Blanket		Blanket
Start			6101.10	587.88
End			6617.40	591.66
Gain			516.30	3.78
Efficiency			99.27%	

Standard RestrictionPressure Differential



Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	8.289	
17,376	8.33	
35.496	8.22	
54.076	8.227	
71.323	8.315	
89.398	8.296	
107.429	8.389	
125.367	8.343	
143.171	8.351	
161.302	8.381	
178.973	8.335	
197.102	8.374	
215.374	8.461	
233.083	8.501	
250.687	8.63	
268.414	8.56	
286.563	8.665	
304.915	8.845	
322.648	8.808	
340.148	8.956	
358.391	9.09	
376.599	9.24	
394.473	9.34	
412.127	9.443	



Air Filter Full Life Efficiency Test Report

Test #: 798-01CE

Sample #:

Filter #: KF-1078D Housing #: AL1358B-00 Date Code: 43906

Operator: DC **Report Date:** 3/16/2020 Filter Mfg.: S&B Housing Mfg.: S&B



Test Description: 19-20 RAM HEMI 6.4L 75-5133 KF-1078D 100 PLEATS CAPCITY AND RESTRICTION

Test Conditions

Barometric Pressure: 28.912 in. Hg 633 SCFM Air Flow Setpoint: **Test Procedure:** CE Air Flow Type: SCFM

Test Endpoint: 10 in. H2O **Number of Pleats:** 100

Flow Direction:

Relative Humidity: 46 % Type of Dust: A4 COARSE Batch #: 14057C Temperature:

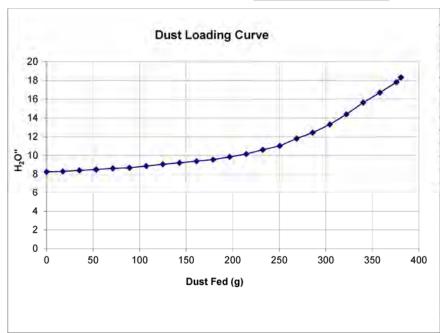
66 deg. F Initial Add Rate: NaN g/min Accumulative Add Rate: 17.92 g/min Pleat Depth: 1 in.

Test Results

Initial Delta P 8.10 in. H2O **Accumulative Capacity:** 365.00 g Test Time: 21.29 min

	Initial		Accumulative)
		Blanket		Blanket
Start			4367.30	587.59
End			4732.30	590.01
Gain			365.00	2.42
Efficiency			99.34%	

 Standard Restriction Pressure Differential



Dust Loadin	Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)		
0	8.271		
17,323	8.305		
35.286	8.425		
53.289	8.522		
71.178	8.637		
89.081	8.696		
107.033	8.891		
124.961	9.074		
142.872	9.229		
161.028	9.408		
178.917	9.576		
196.602	9.851		
214.549	10.166		
232.206	10.621		
250.453	11.04		
268.614	11.817		
285.899	12.445		
304.205	13.319		
322.15	14.411		
340.09	15.651		
357.98	16.722		
375.834	17.825		
380.677	18.339		



Test #: 798-03R

Sample #:
Filter #:
Housing #:
Date Code: 43906

DC 3/16/2020 CHRYSLER CHRYSLER

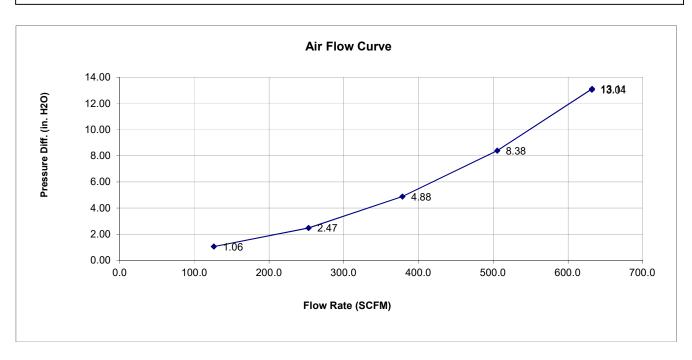


Test Description: 19-20 RAM HEMI 6.4L Stock Restriction

Test Conditions

Barometric Pressure: 28.86203 in. Hg
Air Flow Type: SCFM

Number of Pleats: Flow Direction: Relative Humidity: 36 %
Temperature: 72 deg. F
Pleat Depth: in.



Flow Rate	<u>Differential Pressure</u>
126	1.06
253	2.47
378	4.88
505	8.38
632	13.11
632	13.04

 Test #: 798-04R
 DC

 Sample #:
 3/16/2020

 Filter #: KF-1078D
 S&B

Filter #: KF-1078D S&B Housing #: AL1358B-00 S&B Date Code: 43906

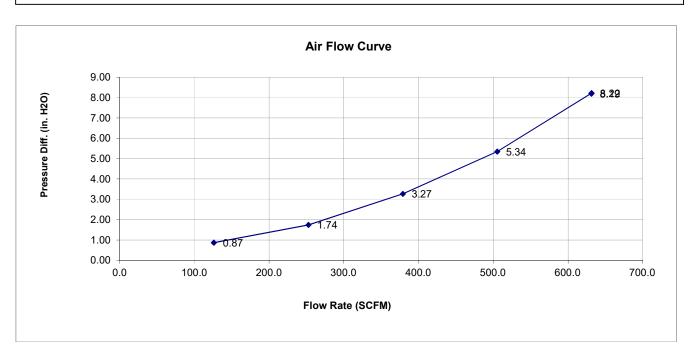


Test Description: 19-20 RAM HEMI 6.4L 75-5133 75-5078D 100 PLEATS RESTRICTION

Test Conditions

Barometric Pressure:28.85326 in. HgRelative Humidity:36 %Air Flow Type:SCFMTemperature:71 deg. FNumber of Pleats:100Pleat Depth:1 in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
126	0.87
253	1.74
379	3.27
505	5.34
631	8.22
631	8.19

 Test #: 798-05R
 DC

 Sample #:
 3/16/2020

 Filter #: KF-1078D
 S&B

Filter #: KF-1078D S&B Housing #: AL1358B-00 S&B

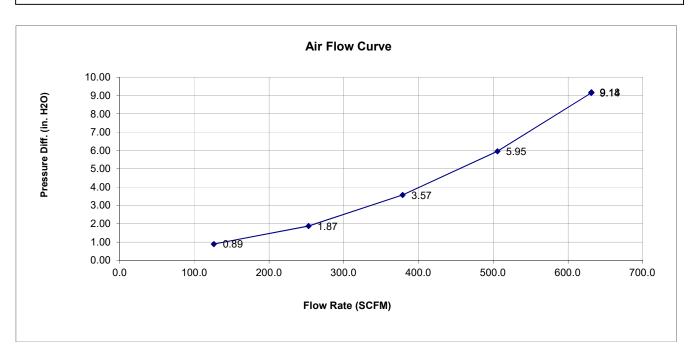
Date Code: 43906

Test Description: 19-20 RAM HEMI 6.4I 75-5133 KF-1078D PLUG ON 100 PLEATS RESTRICTION

Test Conditions

Barometric Pressure:28.84671 in. HgRelative Humidity:35 %Air Flow Type:SCFMTemperature:71 deg. FNumber of Pleats:100Pleat Depth:1 in.

Flow Direction:

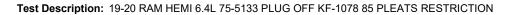


Flow Rate	<u>Differential Pressure</u>
126	0.89
253	1.87
379	3.57
506	5.95
631	9.14
631	9.18

DC Test #: 798-06R Sample #: 3/16/2020 Filter #: KF-1078 S&B S&B

Housing #: AL1358B-00

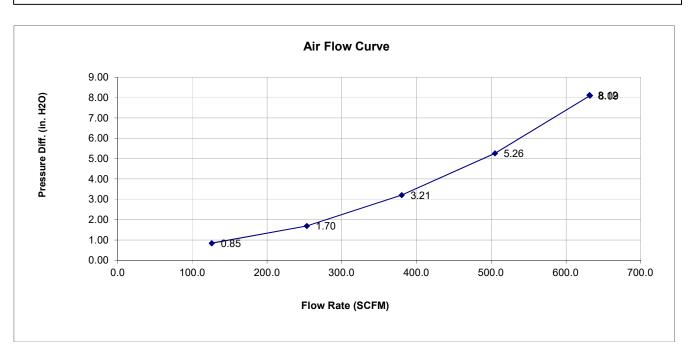
Date Code: 43906



Test Conditions

Barometric Pressure: 28.83882 in. Hg **Relative Humidity:** 35 % Air Flow Type: Temperature: 71 deg. F SCFM Number of Pleats: Pleat Depth: 85 1 in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
126	0.85
253	1.70
380	3.21
505	5.26
632	8.09
631	8.12

 Test #: 798-07R
 DC

 Sample #:
 3/16/2020

 Filter #: KF-1078
 S&B

 Filter #:
 KF-1078
 S&B

 Housing #:
 AL1358B-00
 S&B

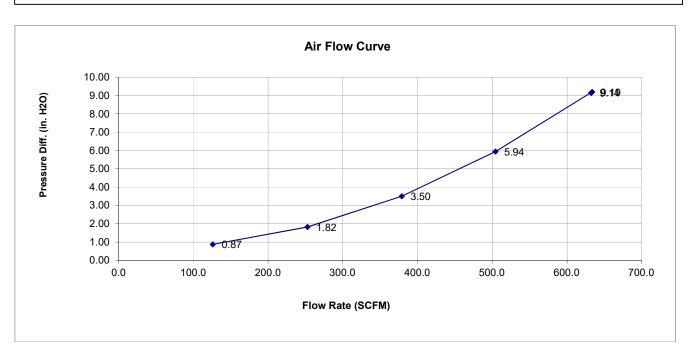
Date Code: 43906

Test Description: 19-20 RAM HEMI 6.4L 75-5133 PLUG ON KF-1078 85 PLEATS RESTRICTION

Test Conditions

Barometric Pressure:28.83711 in. HgRelative Humidity:35 %Air Flow Type:SCFMTemperature:71 deg. FNumber of Pleats:85Pleat Depth:1 in.

Flow Direction:



Differential Pressure
0.87
1.82
3.50
5.94
9.19
9.14