

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!

FACT: S&B Flows	Better than Stock.	WATCH OUT: Some con

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	1/425	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	Efficiency Rate (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

RESET FORM

Test #: 872-08R Sample #: 08R Filter #: Stock Housing #: Date Code: 44820 CV 9/16/2022

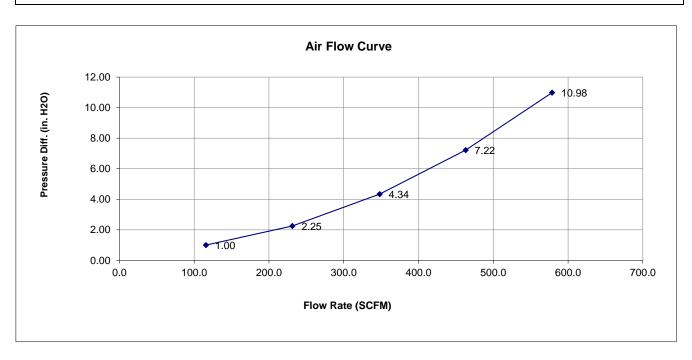


Test Description: Jeep 392 Stock Airbox

Test Conditions

Barometric Pressure: 28.82942 in. Hg **Air Flow Type:** SCFM

Number of Pleats: Flow Direction: Relative Humidity: 52 %
Temperature: 68 deg. F
Pleat Depth: in.



Flow Rate	<u>Differential Pressure</u>
116	1.00
231	2.25
348	4.34
463	7.22
579	10.98

Test #: 872-09R Sample #: 09R Filter #: KF-1083

Housing #: Date Code: 44820 CV 9/16/2022

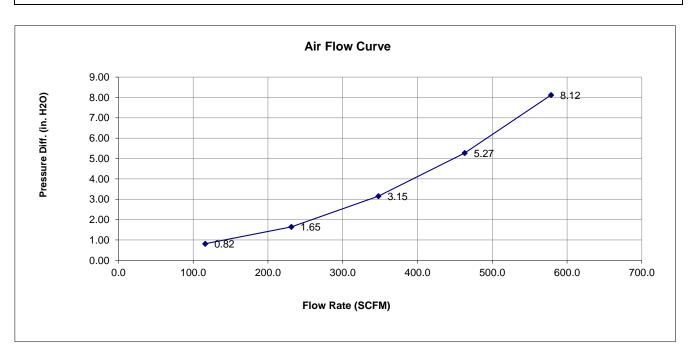


Test Description: 75-5159 Jeep 392 Airbox/ KF-1083 Oiled Filter No Plug/ Restriction Test

Test Conditions

Barometric Pressure: 28.82191 in. Hg Relative Humidity: 53 %
Air Flow Type: SCFM Temperature: 69 deg. F
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
116	0.82
231	1.65
348	3.15
463	5.27
579	8.12

Test #: 872-10R Sample #: 10R Filter #: KF-1083 Housing #: CV 9/16/2022



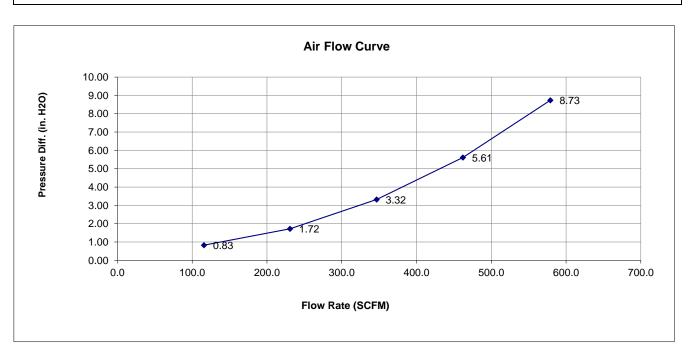
Housing #: Date Code: 44820

Test Description: 75-5159 Jeep 392/ KF-1083 With Plug/ Restriction

Test Conditions

Barometric Pressure: 28.81609 in. Hg Relative Humidity: 51 %
Air Flow Type: SCFM Temperature: 70 deg. F
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>	
116	0.83	
231	1.72	
347	3.32	
462	5.61	
579	8.73	

Test #: 872-12R Sample #: 12R

Filter #: KF-1083D

Housing #: Date Code: 44820 CV 9/16/2022

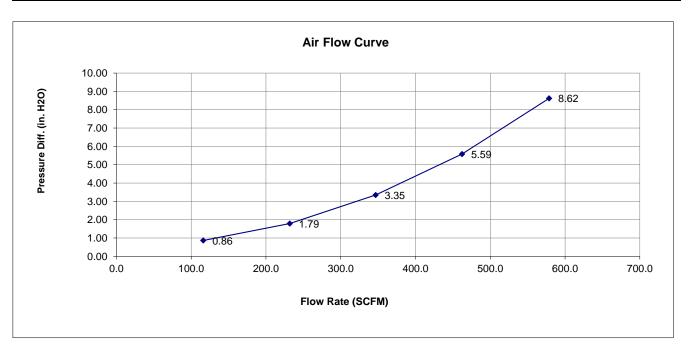


Test Description: 75-5159 Jeep 392/ KF-1083D With 100 Pleats No Plug/ Restriction

Test Conditions

Barometric Pressure: 28.75723 in. Hg **Relative Humidity:** 52 % Air Flow Type: Temperature: 70 deg. F SCFM Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
116	0.86
232	1.79
347	3.35
462	5.59
579	8.62

Test #: 872-16R Sample #: 16R

Filter #: KF-1083D

Housing #: Date Code: 44820 CV 9/16/2022

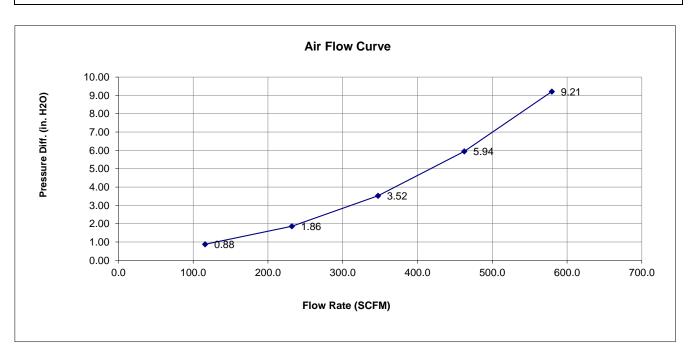


Test Description: 75-5159 Jeep 392/ KF-1083D 100 Pleats With Plug/ Restriction

Test Conditions

Barometric Pressure: 28.72399 in. Hg
Air Flow Type: SCFM
Number of Pleats: Fleat Depth: 55 %
Pleat Depth: 55 %
Temperature: 70 deg. F

Flow Direction:



Flow Rate	<u>Differential Pressure</u>	
116	0.88	
232	1.86	
347	3.52	
462	5.94	
580	9.21	

Air Filter Full Life Efficiency Test Report

Test #: 872-14CE Sample #: 14CE Filter #: Stock Housing #: Date Code: 44820

Operator: CV Report Date: 9/16/2022 Filter Mfg.: **Housing Mfg.:**



Test Description: Jeep 392 Stock Airbox Stock Filter/ Capacity

Test Conditions

Barometric Pressure: 28.723 in. Hg **Relative Humidity:** 54 %

Type of Dust: 580 SCFM Air Flow Setpoint: **Test Procedure:** CE Batch #:

Air Flow Type: SCFM Temperature: 70 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.

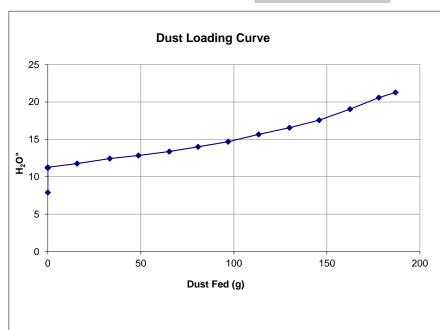
Test Results

Initial Delta P 1.88 in. H2O **Accumulative Capacity:** 190.10 g

Test Time: 11.52 min

	Initial	Initial A)
		Blanket		Blanket
Start			2617.60	569.50
End			2807.70	570.16
Gain			190.10	0.66
Efficiency			99.65%	

Standard Restriction Pressure Differential



Dust Loading Curve Data			
Dust Fed (g)	Pressure ("H2O)		
0	11.233		
0	11.164		
0	11.264		
15.72	11.753		
33.301	12.424		
48.704	12.835		
65.268	13.372		
80.766	14.008		
96.955	14.681		
113.282	15.662		
129.898	16.546		
145.843	17.568		
162.453	19.037		
177.871	20.567		
186.918	21.278		

Air Filter Full Life Efficiency Test Report

Test #: 872-15CE Sample #: 15CE Filter #: KF-1083 Housing #: Date Code: 44820

Operator: CV Report Date: 9/16/2022 Filter Mfg.: **Housing Mfg.:**



Test Description: 75-5159 Jeep 392/ KF-1083/ Capacity

Test Conditions

Barometric Pressure: 28.720 in. Hg **Relative Humidity:** 55 %

Type of Dust: 580 SCFM Air Flow Setpoint: **Test Procedure:** CE Batch #:

Air Flow Type: SCFM Temperature: 70 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.

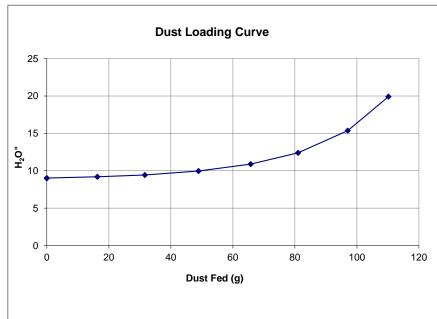
Test Results

Initial Delta P 8.78 in. H2O **Accumulative Capacity:** 108.70 g

Test Time: 6.80 min

	Initial		Accumulative	;
		Blanket		Blanket
Start			4623.70	570.15
End			4732.40	571.09
Gain			108.70	0.94
Efficiency		•	99 14%	

Standard Restriction Pressure Differential



Dust Loading Curve Data				
Pressure ("H2O)				
9.014				
9.181				
9.43				
9.957				
10.892				
12.384				
15.356				
19.902				

Air Filter Full Life Efficiency Test Report

Test #: 872-13CE Sample #: 13CE Filter #: KF-1083D Housing #:

Date Code: 44820

Operator: CV Report Date: 9/16/2022 Filter Mfg.:

Housing Mfg.:



Test Description: 75-5159 Jeep 392/ KF-1083D 100 Pleats/Capacity

Test Conditions

Barometric Pressure: 28.727 in. Hg **Relative Humidity:** 55 %

Type of Dust: 580 SCFM Air Flow Setpoint: **Test Procedure:** CE Batch #:

Air Flow Type: SCFM Temperature: 70 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.

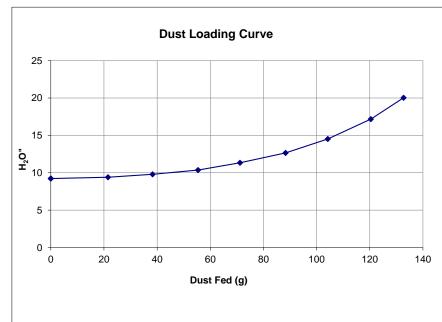
Test Results

Initial Delta P 9.14 in. H2O **Accumulative Capacity:** 130.70 g

Test Time: 7.81 min

	Initial	Initial)
		Blanket		Blanket
Start			4510.90	568.25
End			4641.60	569.51
Gain			130.70	1.26
Efficiency			99.05%	

Standard Restriction Pressure Differential



Dust Loading Curve Data				
Dust Fed (g)	Pressure ("H2O)			
0	9.219			
21.537	9.403			
38.266	9.795			
55.365	10.354			
71.159	11.328			
88.316	12.65			
104.207	14.506			
120.402	17.164			
132.74	20.029			







