

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.

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	17.000	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

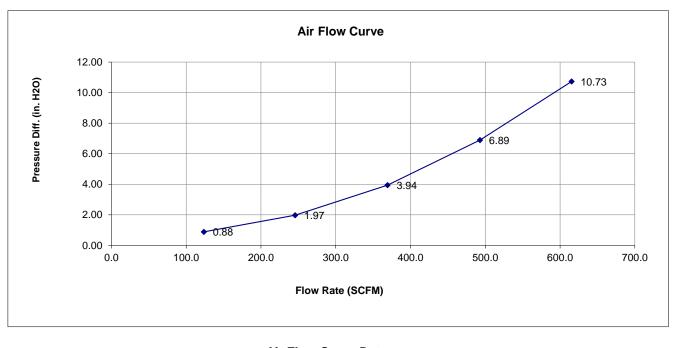
Test #: 916 9R Sample #: Filter #: KF-1087 Housing #: 75-5162 Date Code:

8/15/2023 S&B S&B



Test Description: 75-5162 NO Box Plug, Proto Scoop, 85 PL, 96 grams, Restriction Test

	Test Conditions				
Barometric Pressure: Air Flow Type: Number of Pleats: Flow Direction:	0	Relative Humidity: Temperature: Pleat Depth:	66 % 70 deg. F in.		



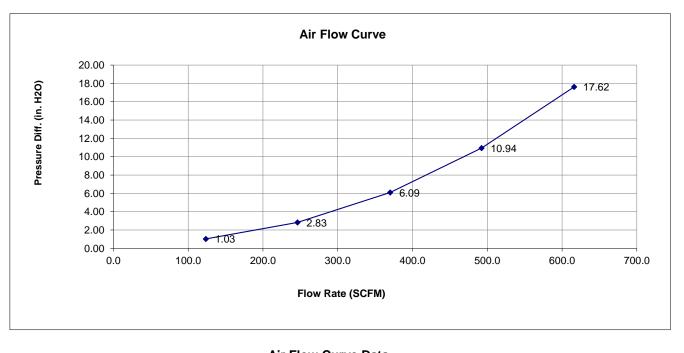
Air Flow Curve Data				
Flow Rate	Differential Pressure			
124	0.88			
246	1.97			
369	3.94			
493	6.89			
615	10.73			

Test #: 916 8R Sample #: Filter #: KF-1087, 85pl, 96g Housing #: 75-5162 Date Code: 2023.08.15 JM 8/15/2023 S&B S&B



Test Description: 75-5162 with Box Plug, Proto Scoop, 85 PL, 96 grams, Restriction Test

Test Conditions				
Barometric Pressure:	28.86491 in. Hg	Relative Humidity:	66 %	
Air Flow Type:	SCFM	Temperature:	70 deg. F	
Number of Pleats: Flow Direction:	85	Pleat Depth:	in.	



Air Flow Curve Data			
Flow Rate	Differential Pressure		
124	1.03		
246	2.83		
370	6.09		
492	10.94		
616	17.62		

Air Filter Full Life Efficiency Test Report

Test #: 916 11CE Sample #: Filter #: KF-1087 Housing #: 75-5162 Date Code: 2023.08.15 Operator: JM Report Date: 8/15/2023 Filter Mfg.: S&B Housing Mfg.: S&B

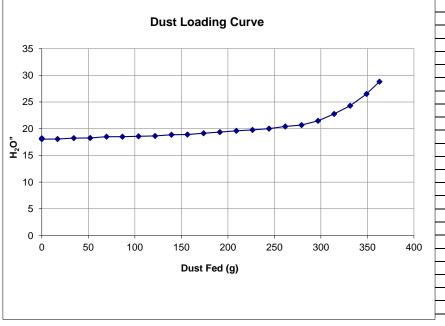


Test Description: 75-5162 with Box Plug, Proto Scoop, 85 PL, 96 grams, CE Test

		Test Co	nditions		
Barometric Pressure:	28.766 in. Hg		Relative	Humidity:	53 %
Air Flow Setpoint:	617 SCFM			pe of Dust:	
Test Procedure:	CE			Batch #:	
Air Flow Type:	SCFM		Tei	mperature:	73 deg. F
Test Endpoint:	10 in. H2O		Initial	Add Rate:	NaN g/min
Number of Pleats:	85		Accumulative	Add Rate:	17.47 g/min
Flow Direction:			P	leat Depth:	in.
Initial Delta P	17.94 in. H2O	10011	Results Accumulative	e Capacity:	351.00 g
Initial Delta P	17.94 in. H2O		Accumulative	e Capacity: Test Time:	351.00 g 20.80 min
		-			
		Initial	Accumulative		
			Kit	Blanket	
	Start		4670.00		
	End		5021.00		
	Gain		351.00	1.62	
	Efficiency		99.54%		

Standard Restriction

C Pressure Differential



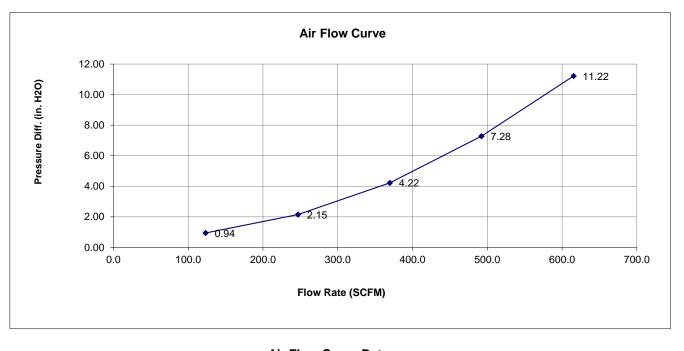
Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	18.034	
16.944	18.07	
34.393	18.226	
51.971	18.265	
69.592	18.495	
86.697	18.497	
104.033	18.565	
121.741	18.636	
139.353	18.865	
156.541	18.916	
173.957	19.149	
191.442	19.37	
209.117	19.606	
226.51	19.774	
244.253	20	
261.74	20.413	
279.138	20.682	
296.873	21.469	
314.276	22.765	
331.418	24.302	
349.03	26.514	
362.917	28.809	

Test #: 916 17R Sample #: 17R Filter #: KF-1087D Housing #: 75-5162 Date Code: 45154 EM 8/16/2023 S&B S&B



Test Description: 75-5162 NO BOX PLUY 135PL 15G

Test Conditions				
Barometric Pressure:	0	Relative Humidity:	54 %	
Air Flow Type:		Temperature:	71 deg. F	
Number of Pleats: Flow Direction:	135	Pleat Depth:	in.	



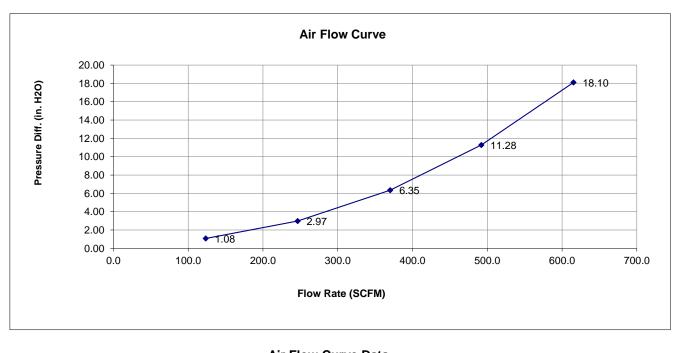
Air Flow Curve Data			
Flow Rate	Differential Pressure		
123	0.94		
247	2.15		
370	4.22		
492	7.28		
616	11.22		

Test #: 916 16R Sample #: 16R Filter #: KF-1087D Housing #: 75-5162 Date Code: 45154 EM 8/16/2023 S&B S&B



Test Description: 75-5162 WITH BOX PLUY 135PL 15G

Test Conditions			
Barometric Pressure:	28.81705 in. Hg	Relative Humidity:	55 %
Air Flow Type:	SCFM	Temperature:	71 deg. F
Number of Pleats: Flow Direction:	135	Pleat Depth:	in.



Air Flow Curve Data			
Flow Rate	Differential Pressure		
123	1.08		
246	2.97		
370	6.35		
492	11.28		
615	18.10		

Air Filter Full Life Efficiency Test Report

Test #: 916 20CE Sample #: 20CE Filter #: KF-1087D Housing #: 75-5162 Date Code: 2023.08.16 Operator: EM Report Date: 8/24/2023 Filter Mfg.: S&B Housing Mfg.: S&B



Test Description: 75-5162 with Box Plug, KF-1087D, 135pl, 15g, CE Test

		Test Co	nditions			
Barometric Pressure:	28.793 in. Hg		Relative	Humidity:	53	%
Air Flow Setpoint:	617 SCFM		Ту	A4 COARSE		
Test Procedure:	20CE			14996C		
Air Flow Type:	SCFM		Ter	72	deg. F	
Test Endpoint:	10 in. H2O		Initial	Add Rate:	NaN	g/min
Number of Pleats:	135		Accumulative	Add Rate:	17.47	g/min
Flow Direction:	ow Direction: Pleat Depth:					in.
		Test R	esults			
Initial Delta P	Initial Delta P 17.92 in. H2O Accumulative Capacity:			148.10	q	
				Test Time:		min
		Initial	Accumulative	Accumulative		
			Kit	Blanket		
	Start		4514.00	594.62		
	End		4662.10	595.24		
	Gain		148.10	0.62		
	Efficiency		99.58%			

Standard Restriction

Pressure Differential

Dust Loading Curve 30 25 20 о¹⁵ Н 10 5 0 0 20 40 60 80 100 120 140 160 180 Dust Fed (g)

Dust Loading Curve Data						
Dust Fed (g)	Pressure ("H2O)					
0	18.258					
17.262	18.022					
33.378	18.348					
51.785	18.749					
68.961	19.766					
87.07	20.78					
104.605	22.228					
122.45	23.69					
139.643	26.018					
153.254	28.442					

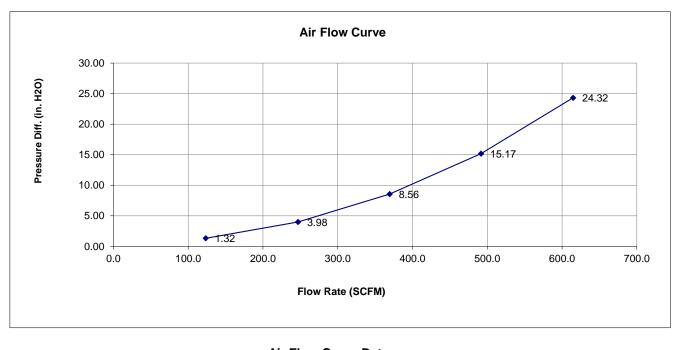


Test #: 916 1R Sample #: 1R Filter #: FORD OE Housing #: 2.7L BRONCO Date Code: 45152 EM 8/14/2023



Test Description: 2021 Ford Bronco, 2.7L, Restriction Test

Test Conditions						
Barometric Pressure:	28.81076 in. Hg	Relative Humidity:	59 %			
Air Flow Type:	SCFM	Temperature:	69 deg. F			
Number of Pleats: Flow Direction:		Pleat Depth:	in.			



Air Flow Curve Data						
Flow Rate	Differential Pressure					
123	1.32					
247	3.98					
369	8.56					
492	15.17					
615	24.32					

Air Filter Full Life Efficiency Test Report

Test #: 916 2CE Sample #: 2CE Filter #: FORD BRONCO Housing #: 2021 FORD BRONCO, 2.7L Date Code: 45152

Operator: EM Report Date: 8/14/2023 Filter Mfg.: Housing Mfg.:



Test Description: 2021 FORD BRONCO, 2.7L CE TEST

		Test Co	onditions				
Barometric Pressure:	28.797 in. Hg		Relative	Humidity:	58	%	
Air Flow Setpoint:	617 SCFM	Type of Dust:) A4 COARSE					
Test Procedure:	CE	Batch #: 14996C					
Air Flow Type:	SCFM		Tei	mperature:	70	deg. F	
Test Endpoint:	10 in. H2O		Initial	Add Rate:	NaN	g/min	
Number of Pleats:			Accumulative	Add Rate:	17.47	g/min	
Flow Direction:			P		in.		
Initial Delta P	24.80 in. H2O	Test Results Accumulative Capacity: Test Time:		170.60 9.66	0		
		Initial	Accumulative	Accumulative			
			Kit	Blanket			
	Start		3223.20	3223.20 584.46			
	End		3393.80	584.66			
	Gain		170.60	170.60 0.20			
	Efficiency		99.88%				

Standard Restriction

Pressure Differential

									Dust Loa
		Dust L	oading	Curve					Dust Fed (g)
			J						0
40									16.98
									35.401
35									53.566
20					-				72.061
30				-					89.406
25	•		•	·					106.882
									124.429
20									142.084
									159.271
15									170.672
10									
10									
5									
								_	
0 ++									
0 20	40	60	80	100	120	140	160	180 —	
		D	ust Fed	(q)					
				(0)					

Dust Loading Curve Data							
Dust Fed (g)	Pressure ("H2O)						
0	24.947						
16.98	24.866						
35.401	25.183						
53.566	25.946						
72.061	26.694						
89.406	27.675						
106.882	28.593						
124.429	30.142						
142.084	31.639						
159.271	33.822						
170.672	35.297						

