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: 75-5160 **Test Date:** 2023.08.16

Description: Restriction, C&E **Test Report #:** 917

Vehicle Applications: 2021 Ford Bronco, 2.3L

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 33.63% 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 Stock (tested @ 538 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	33.63%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	8.18%
S&B Intake w/ Dry Filter (Secondary Inlet - Open	28.51%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	7.43%

Test Conditions	
Barometric Pressure	28.7 inHg
Airflow Setpoint	538 CFM
Relative Humidity	52%
Temperature	73 F
Type of Dust	A4 Coarse
Batch #	14996C
Dust Feed Rate (grams/minute)	15.23

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 @ 580 cfm)
Stock	99.76%
S&B Intake w/ Cleanable Filter	99.55%
S&B Intake w/ Dry Filter	99.73%

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

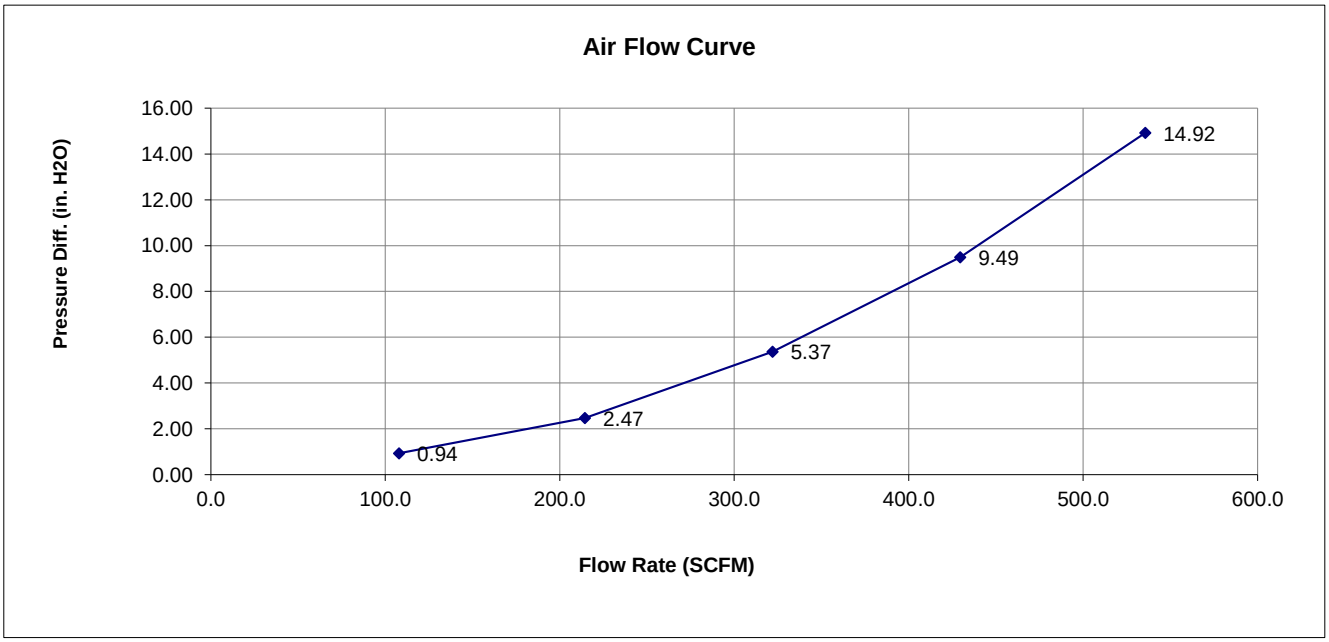
Air Filter Restriction Test Report

Test #:	**917 5R**	JM	
Sample #:		8/22/2023	
Filter #:	KF-1087	S&B	
Housing #:	75-5160	S&B	
Date Code:	2023.08.16		

Test Description: 75-5160 NO Box Plug, Proto Scoop, 85 PL, 96 grams, Restriction Test

Test Conditions

Barometric Pressure:	28.70907 in. Hg	**Relative Humidity:**	51 %
Air Flow Type:	SCFM	**Temperature:**	73 deg. F
Number of Pleats:	85	**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
108	0.94
214	2.47
322	5.37
429	9.49
536	14.92

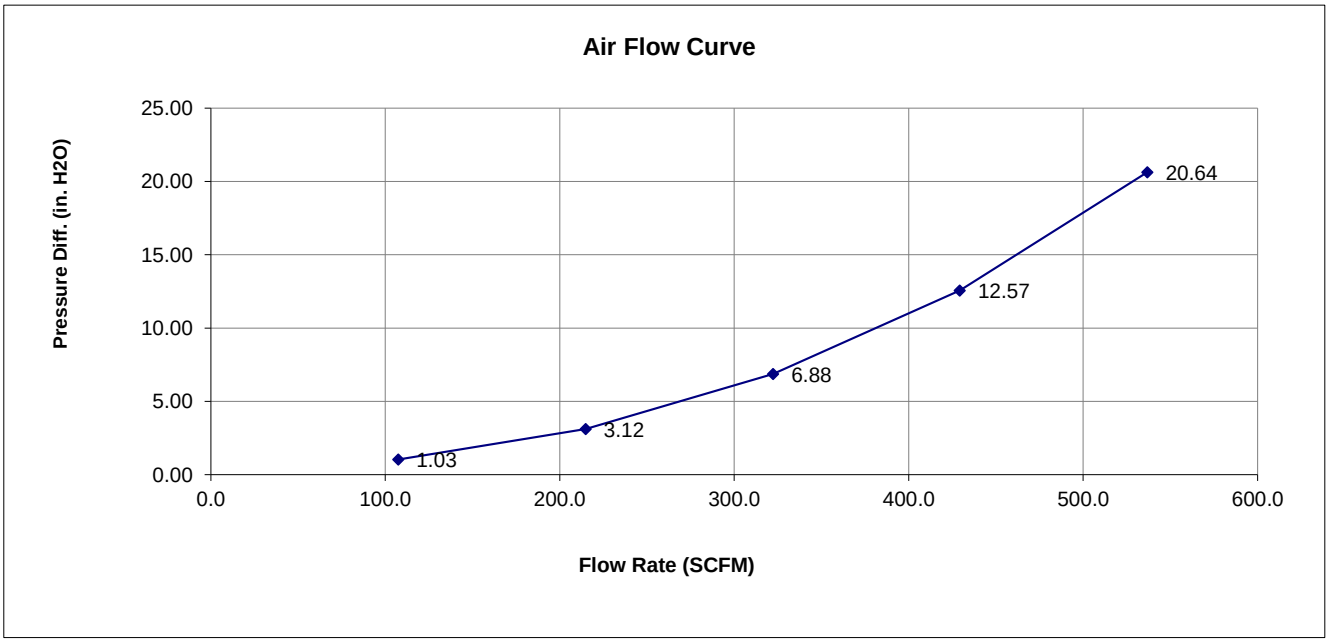
Air Filter Restriction Test Report

Test #:	**917 6R**	JM	
Sample #:		8/22/2023	
Filter #:	KF-1087	S&B	
Housing #:	75-5160	S&b	
Date Code:	2023.08.16		

Test Description: 75-5160 with Box Plug, Proto Scoop, 85 PL, 96 grams, Restriction Test

Test Conditions

Barometric Pressure:	28.70484 in. Hg	**Relative Humidity:**	51 %
Air Flow Type:	SCFM	**Temperature:**	73 deg. F
Number of Pleats:	85	**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
107	1.03
215	3.12
322	6.88
429	12.57
537	20.64

Air Filter Full Life Efficiency Test Report

Test #: 917 7CE
Sample #:
Filter #: KF-1087
Housing #: 75-5160
Date Code: 2023.08.16

Operator: JM
Report Date: 8/22/2023
Filter Mfg.: S&B
Housing Mfg.: S&B

Test Description: 75-5160 with Box Plug, KF-1087 85pl, 96g

Test Conditions

Barometric Pressure:	28.699 in. Hg	**Relative Humidity:**	52 %
Air Flow Setpoint:	538 SCFM	**Type of Dust:**	A4 Coarse
Test Procedure:	CE	**Batch #:**	14996C
Air Flow Type:	SCFM	**Temperature:**	73 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:	85	**Accumulative Add Rate:**	15.23 g/min
Flow Direction:		**Pleat Depth:**	in.

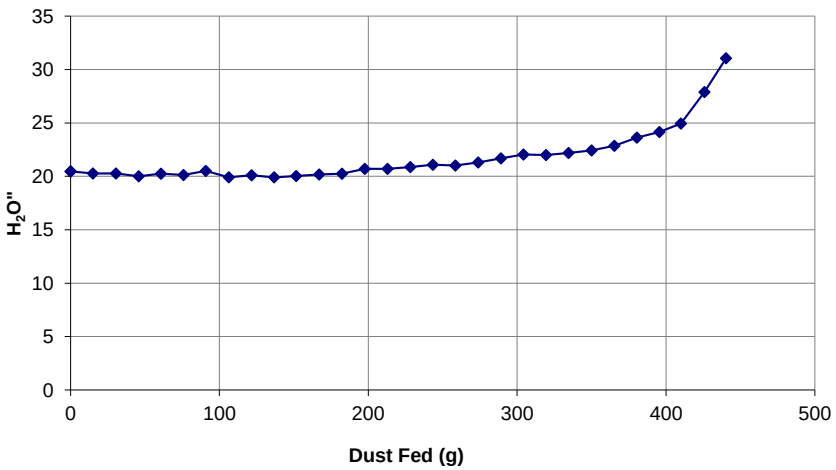
Test Results

Initial Delta P 20.22 in. H2O

Accumulative Capacity: 429.10 g
Test Time: 28.97 min

	Initial		Accumulative	
			Kit	Blanket
Start			4128.00	584.48
End			4557.10	586.42
Gain			429.10	1.94
Efficiency			99.55%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	20.454
14.894	20.266
30.387	20.271
45.693	20.008
60.665	20.257
75.774	20.132
90.883	20.518
106.248	19.905
121.605	20.106
136.65	19.901
151.588	20.034
167.04	20.182
182.266	20.258
197.614	20.695
212.851	20.703
228.152	20.868
243.317	21.084
258.529	21.021
273.841	21.299
289.098	21.683
304.189	22.043
319.424	21.999
334.553	22.185
349.965	22.429

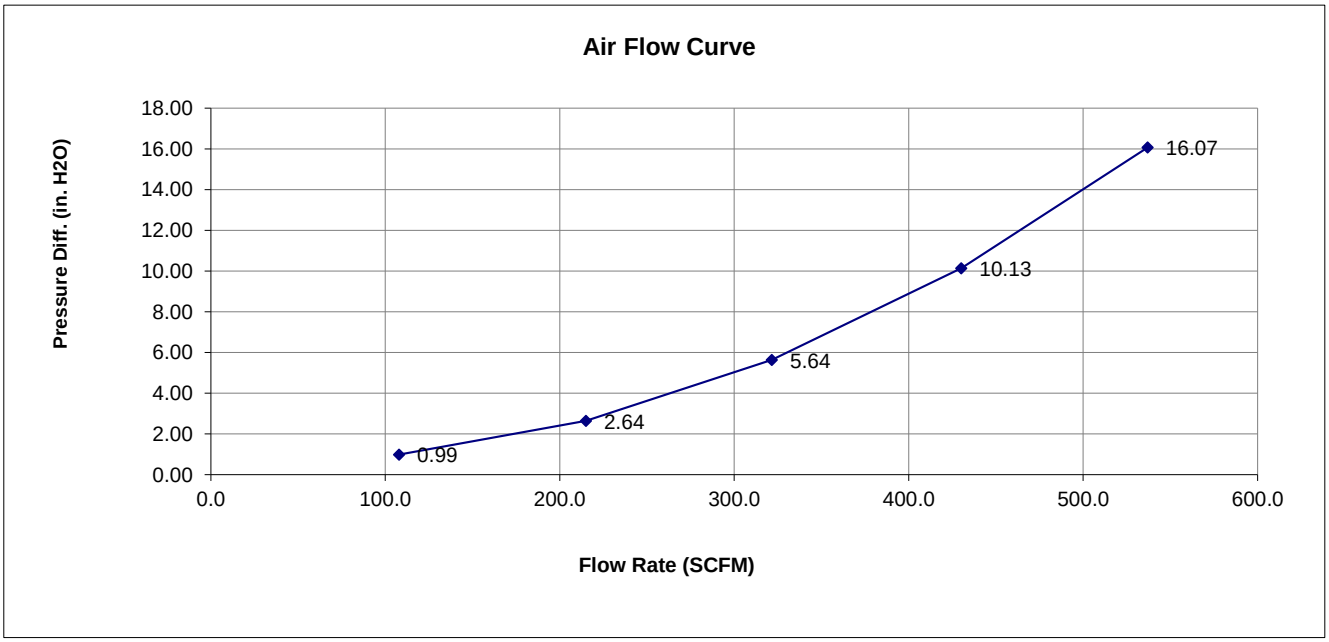
Air Filter Restriction Test Report

Test #:	**917 3R**	JM	
Sample #:		8/23/2023	
Filter #:	KF-1087D	S&B	
Housing #:	75-5160	S&B	
Date Code:	2023.08.16		

Test Description: 75-5160 NO Box Plug, KF-1087D 135pl, 15g Restriction Test

Test Conditions

Barometric Pressure:	28.71679 in. Hg	**Relative Humidity:**	54 %
Air Flow Type:	SCFM	**Temperature:**	74 deg. F
Number of Pleats:	135	**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
108	0.99
215	2.64
322	5.64
430	10.13
537	16.07

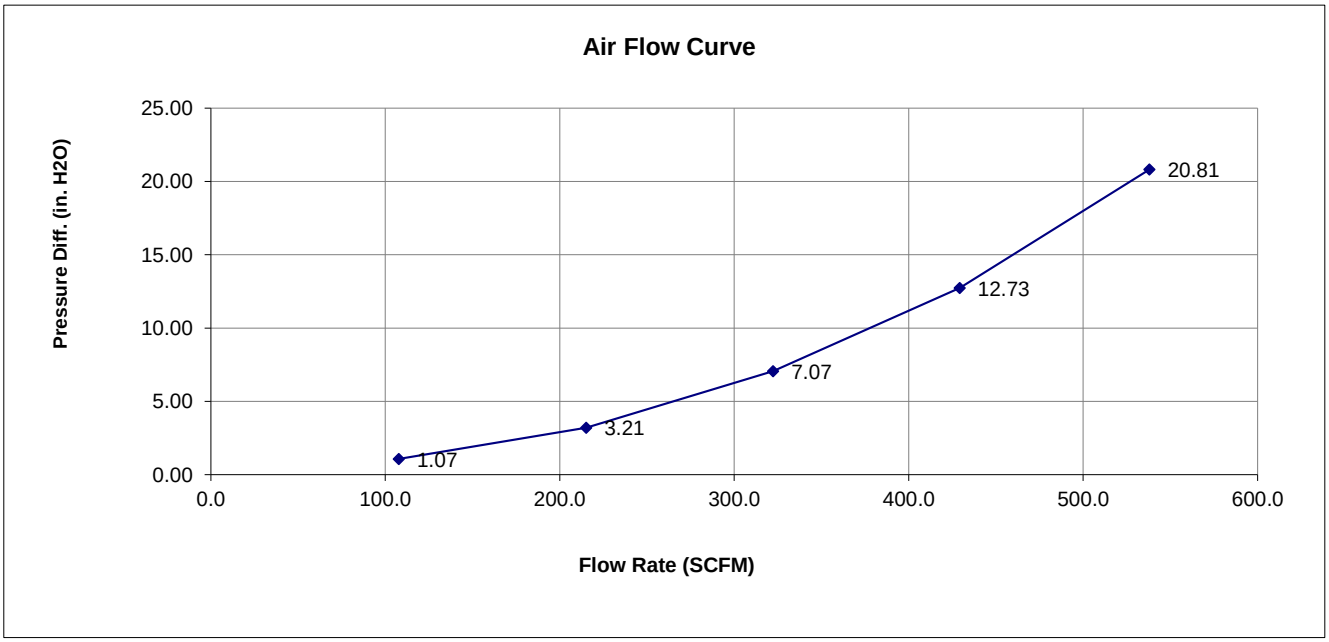
Air Filter Restriction Test Report

Test #:	**917 4R**	JM	
Sample #:		8/23/2023	
Filter #:	KF-1087D	S&B	
Housing #:	75-5160	S&B	
Date Code:	2023.08.16		

Test Description: 75-5160 with Box Plug, KF-1087D 135pl, 15g Restriction Test

Test Conditions

Barometric Pressure:	28.71099 in. Hg	**Relative Humidity:**	53 %
Air Flow Type:	SCFM	**Temperature:**	73 deg. F
Number of Pleats:	135	**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
108	1.07
215	3.21
322	7.07
429	12.73
538	20.81

Air Filter Full Life Efficiency Test Report

Test #: 917 10CE
Sample #: 10CE
Filter #: KF-1087D
Housing #: 75-5160
Date Code: 45156

Operator: EM
Report Date: 8/22/2023
Filter Mfg.: S&B
Housing Mfg.: S&B

Test Description: 75-5160 WITH BOX PLUG KF-1087D 135PL 15G

Test Conditions

Barometric Pressure:	28.765 in. Hg	**Relative Humidity:**	53 %
Air Flow Setpoint:	538 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	CE	**Batch #:**	14996C
Air Flow Type:	SCFM	**Temperature:**	75 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:	135	**Accumulative Add Rate:**	15.23 g/min
Flow Direction:		**Pleat Depth:**	in.

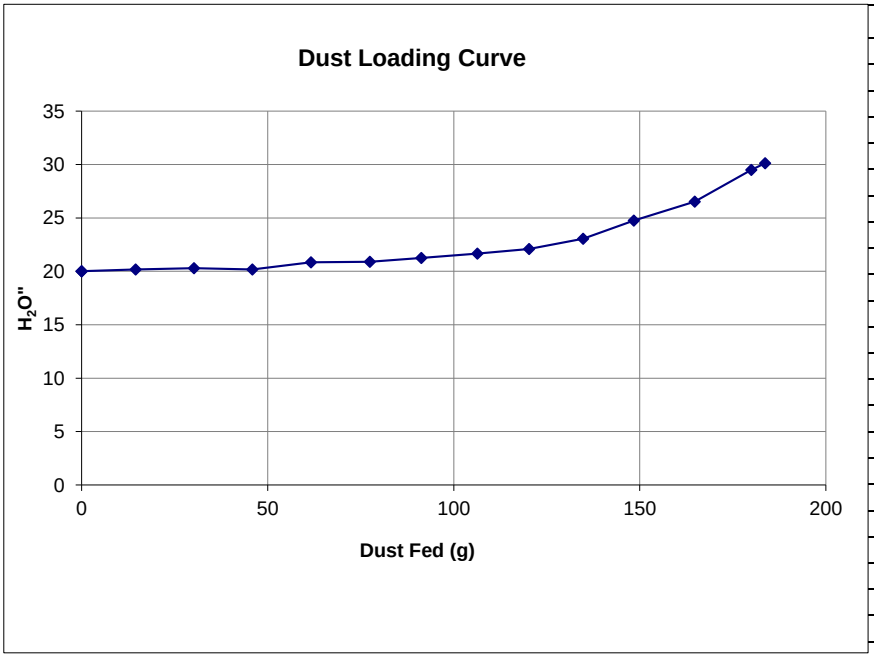
Test Results

Initial Delta P 20.07 in. H2O

Accumulative Capacity: 180.30 g
Test Time: 12.22 min

	Initial		Accumulative	
			Kit	Blanket
Start			4004.20	591.82
End			4184.50	592.30
Gain			180.30	0.48
Efficiency			99.73%	

Standard Restriction
Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	20.012
14.498	20.178
30.187	20.295
45.865	20.164
61.63	20.857
77.452	20.893
91.266	21.242
106.341	21.658
120.222	22.094
134.733	23.055
148.372	24.751
164.759	26.534
179.967	29.499
183.681	30.125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Air Filter Restriction Test Report

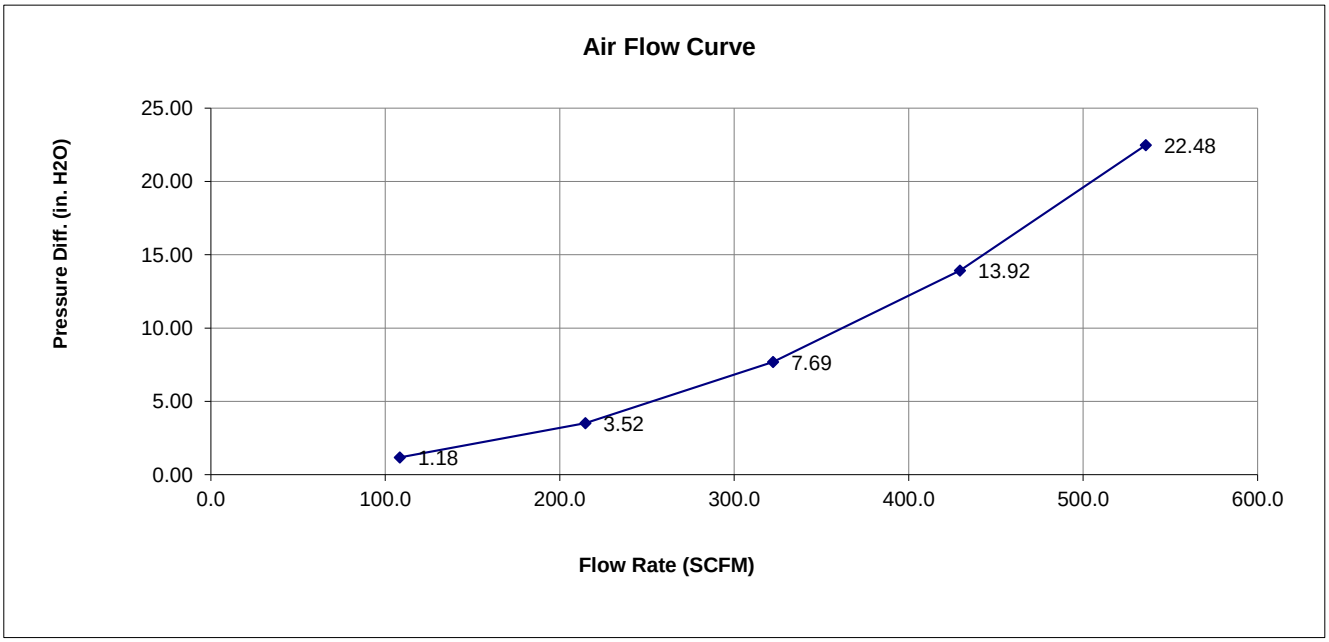
Test #: 917 1R
Sample #: 1R
Filter #: FORD BRONCO
Housing #: 2021 FORD BRONCO, 2.3L
Date Code: 45154

EM
8/22/2023
FORD
FORD

Test Description: 2021 FORD BRONCO 2.3L, RESTRICTION TEST

Test Conditions

Barometric Pressure:	28.74469 in. Hg	**Relative Humidity:**	53 %
Air Flow Type:	SCFM	**Temperature:**	73 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
108	1.18
215	3.52
322	7.69
429	13.92
536	22.48

Air Filter Full Life Efficiency Test Report

Test #: 917 2CE
Sample #:
Filter #: Ford Bronco
Housing #: 2021 Ford Bronco 2.3L
Date Code: 2023.08.16

Operator: JM
Report Date: 8/22/2023
Filter Mfg.: Ford
Housing Mfg.: Ford

Test Description: 2021 Ford Bronco, 2.3L, CE Test

Test Conditions

Barometric Pressure:	28.728 in. Hg	**Relative Humidity:**	52 %
Air Flow Setpoint:	538 SCFM	**Type of Dust:**	A4 Coarse
Test Procedure:	CE	**Batch #:**	14996C
Air Flow Type:	SCFM	**Temperature:**	73 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	15.23 g/min
Flow Direction:		**Pleat Depth:**	in.

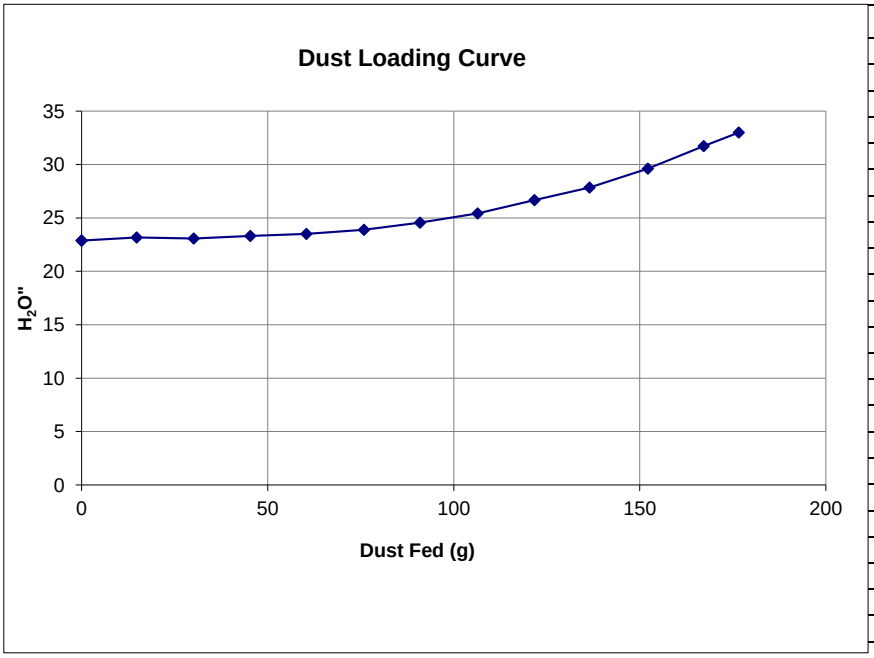
Test Results

Initial Delta P 22.78 in. H2O

Accumulative Capacity: 173.10 g
Test Time: 11.64 min

	Initial		Accumulative	
			Kit	Blanket
Start			3251.90	584.01
End			3425.00	584.43
Gain			173.10	0.42
Efficiency			99.76%	

◉ Standard Restriction
○ Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	22.88
14.777	23.169
30.106	23.069
45.309	23.321
60.404	23.512
75.881	23.887
90.953	24.55
106.409	25.421
121.683	26.662
136.465	27.853
152.148	29.629
167.145	31.738
176.615	32.996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