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: 75-5187 **Test Date:** 2023.10.09

Description: Restriction, C&E **Test Report #:** 918

Vehicle Applications: 2020-22 Ford F-250, F350, 6.2L Gas

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 34.79% 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 @ 630 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	34.79%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	12.78%
S&B Intake w/ Dry Filter (Secondary Inlet - Open	32.57%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	11.00%

Test Conditions	
Barometric Pressure	28.7 inHg
Airflow Setpoint	630 CFM
Relative Humidity	51%
Temperature	71 F
Type of Dust	A4 Coarse
Batch #	14996C
Dust Feed Rate (grams/minute)	17.84

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	99.85%
S&B Intake w/ Cleanable Filter	99.34%
S&B Intake w/ Dry Filter	99.42%

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

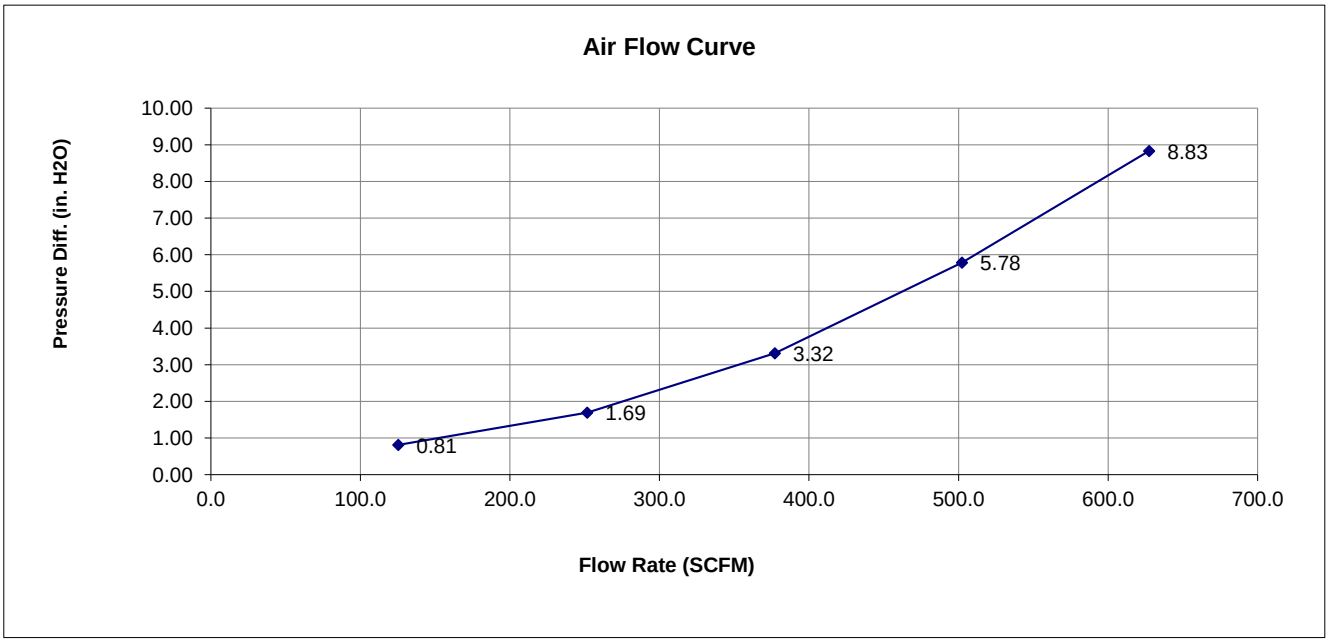
Air Filter Restriction Test Report

Test #:	**918-3R**	EM
Sample #:	3R	10/9/2023
Filter #:	KF-1079	S&B
Housing #:	75-5187	S&B
Date Code:	45208	

Test Description: 75-5187 NO BOX PLUG KF-1079 RESTRICTION TEST

Test Conditions

Barometric Pressure:	28.75463 in. Hg	**Relative Humidity:**	41 %
Air Flow Type:	SCFM	**Temperature:**	71 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
125	0.81
252	1.69
377	3.32
502	5.78
627	8.83

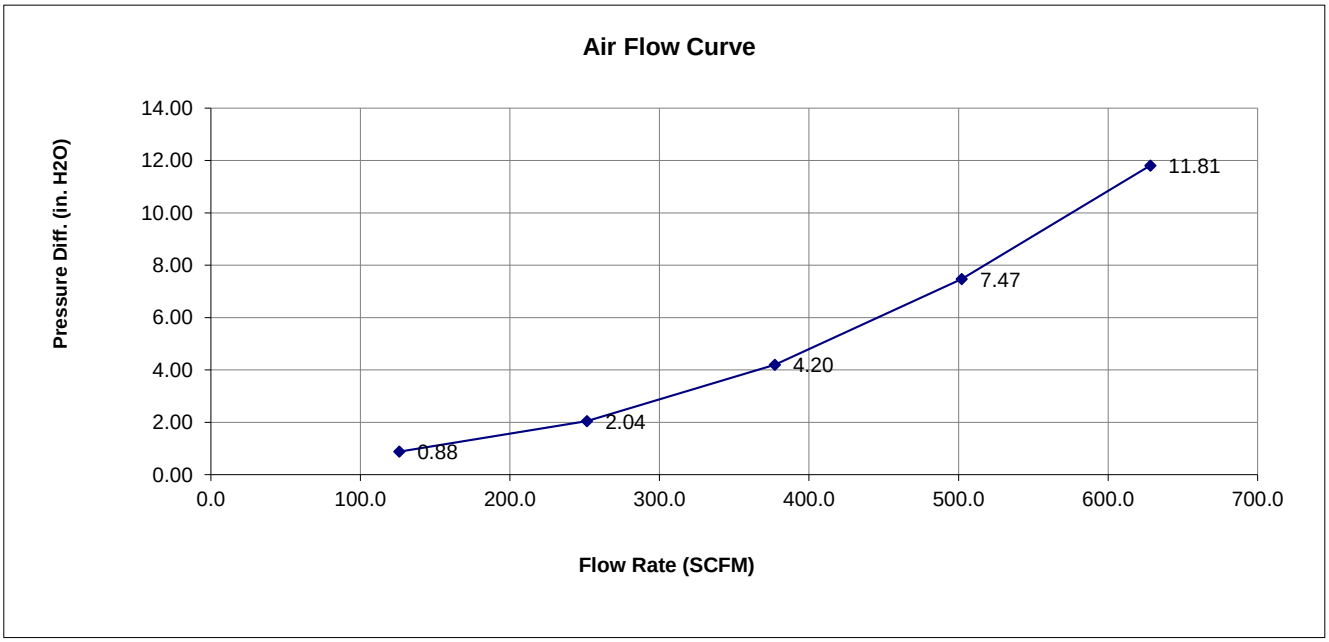
Air Filter Restriction Test Report

Test #:	**918-4R**	EM	
Sample #:	4R	10/9/2023	
Filter #:	KF-1079	S&B	
Housing #:	75-5187	S&B	
Date Code:	45208		

Test Description: 75-5187 WITH BOX PLUG, KF-1079 RESTRICTION TEST

Test Conditions

Barometric Pressure:	28.75431 in. Hg	**Relative Humidity:**	41 %
Air Flow Type:	SCFM	**Temperature:**	70 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
126	0.88
252	2.04
377	4.20
502	7.47
628	11.81

Air Filter Full Life Efficiency Test Report

Test #: 918-5CE
Sample #: 5CE
Filter #: KF-1079
Housing #: 75-5187
Date Code: 45208

Operator: EM
Report Date: 10/9/2023
Filter Mfg.: S&B
Housing Mfg.: S&B

Test Description: 75-5187 WITH BOX PLUG KF-1079 CE TEST

Test Conditions

Barometric Pressure:	28.755 in. Hg	**Relative Humidity:**	41 %
Air Flow Setpoint:	630 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	CE	**Batch #:**	14996C
Air Flow Type:	SCFM	**Temperature:**	72 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	17.84 g/min
Flow Direction:		**Pleat Depth:**	in.

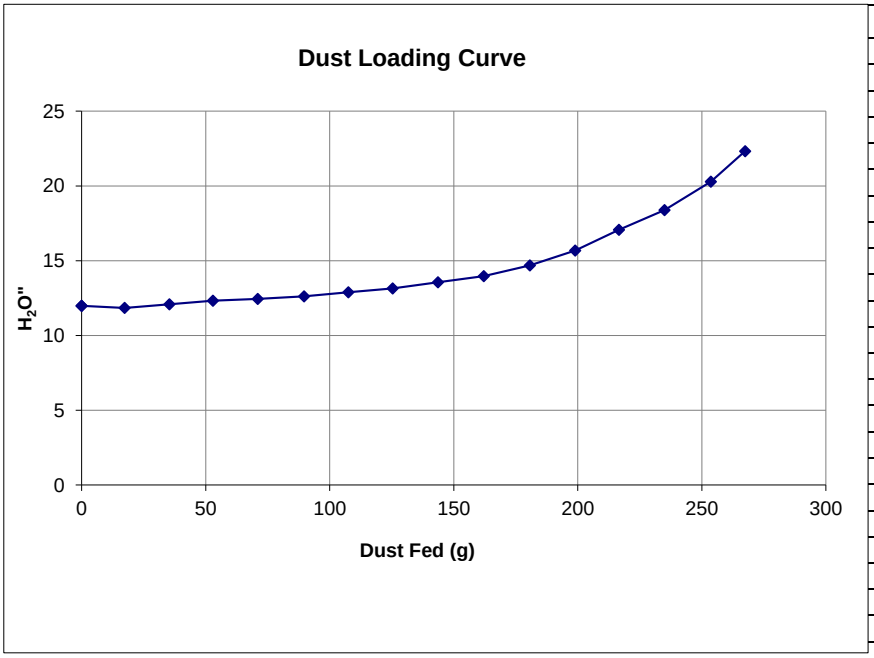
Test Results

Initial Delta P 11.78 in. H2O

Accumulative Capacity: 268.60 g
Test Time: 14.82 min

	Initial		Accumulative	
			Kit	Blanket
Start			6419.60	592.62
End			6688.20	594.41
Gain			268.60	1.79
Efficiency			99.34%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	11.975
17.322	11.836
35.417	12.088
52.948	12.32
70.949	12.448
89.702	12.606
107.493	12.879
125.4	13.138
143.642	13.562
162.146	13.965
180.677	14.679
198.91	15.681
216.637	17.07
234.978	18.378
253.591	20.288
267.42	22.32

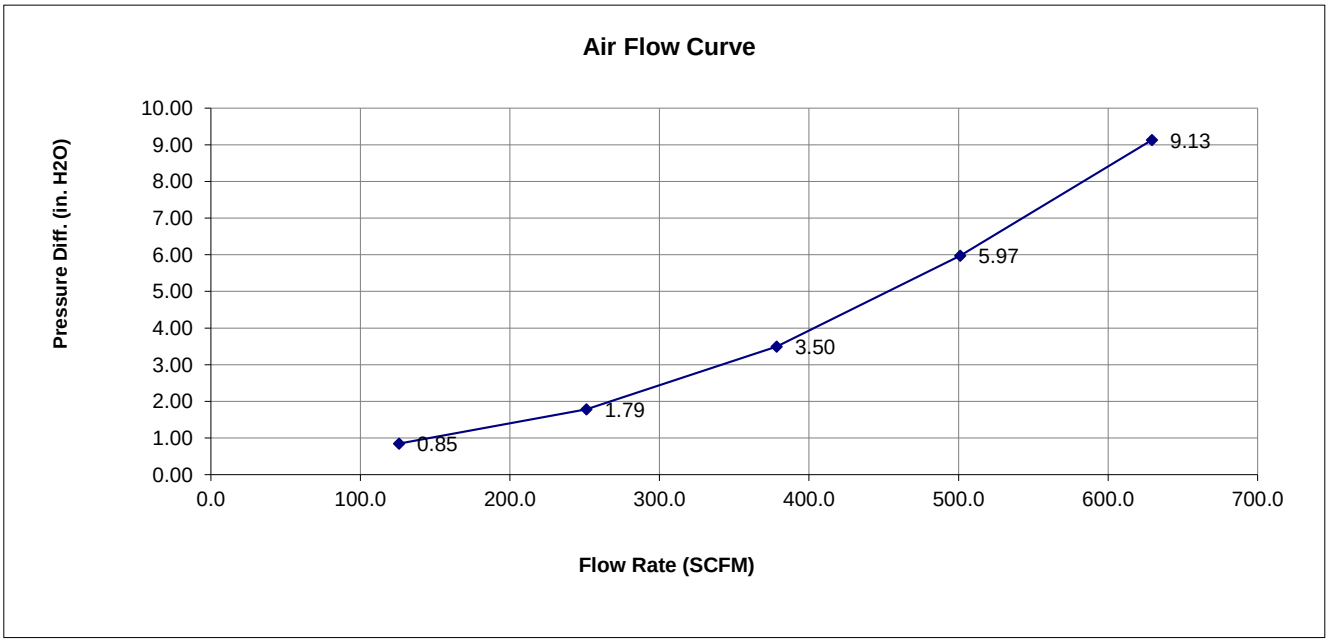
Air Filter Restriction Test Report

Test #:	**918-6R**	EM
Sample #:	6R	10/9/2023
Filter #:	KF-1079D	S&B
Housing #:	75-5187	S&B
Date Code:	45208	

Test Description: 75-5187 NO BOX PLUG KF-1079D RESTRICTION TEST

Test Conditions

Barometric Pressure:	28.75121 in. Hg	**Relative Humidity:**	42 %
Air Flow Type:	SCFM	**Temperature:**	72 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
126	0.85
251	1.79
378	3.50
501	5.97
629	9.13

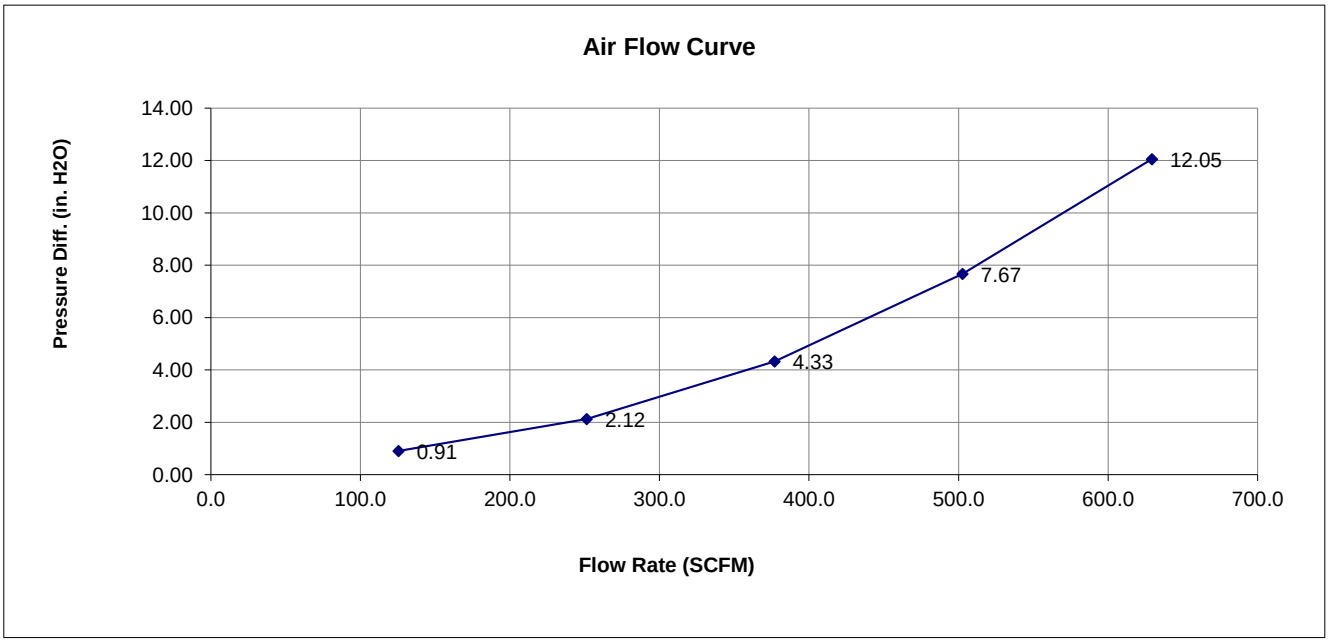
Air Filter Restriction Test Report

Test #:	**918-7R**	EM	
Sample #:	7R	10/9/2023	
Filter #:	KF-1079D	S&B	
Housing #:	75-5187	S&B	
Date Code:	45208		

Test Description: 75-5187 WITH BOX PLUG KF-1079D RESTRICTION TEST

Test Conditions

Barometric Pressure:	28.73084 in. Hg	**Relative Humidity:**	42 %
Air Flow Type:	SCFM	**Temperature:**	73 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
125	0.91
251	2.12
377	4.33
503	7.67
629	12.05

Air Filter Full Life Efficiency Test Report

Test #: 918-8R
Sample #: 8R
Filter #: KF-1079D
Housing #: 75-5187
Date Code: 45208

Operator: EM
Report Date: 10/9/2023
Filter Mfg.: S&S
Housing Mfg.: S&B

Test Description: 75-5187 WITH BOX PLUG KF-1079D CE TEST

Test Conditions

Barometric Pressure:	28.729 in. Hg	**Relative Humidity:**	56 %
Air Flow Setpoint:	630 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	R	**Batch #:**	14996C
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:**	17.84 g/min
Flow Direction:		**Pleat Depth:**	in.

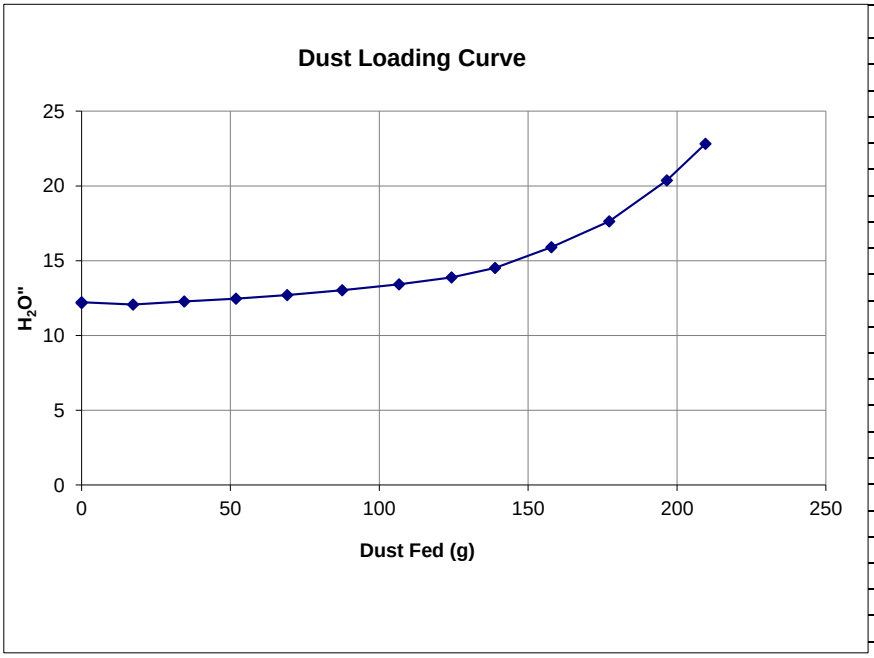
Test Results

Initial Delta P 11.96 in. H2O

Accumulative Capacity: 216.60 g
Test Time: 11.75 min

	Initial		Accumulative	
			Kit	Blanket
Start			6404.10	581.70
End			6620.70	582.96
Gain			216.60	1.26
Efficiency			99.42%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	12.218
17.315	12.066
34.482	12.263
51.869	12.467
69.074	12.696
87.512	13.018
106.628	13.426
124.218	13.882
138.915	14.517
157.792	15.898
177.201	17.637
196.54	20.366
209.553	22.821


PELIGRO

Air Filter Restriction Test Report

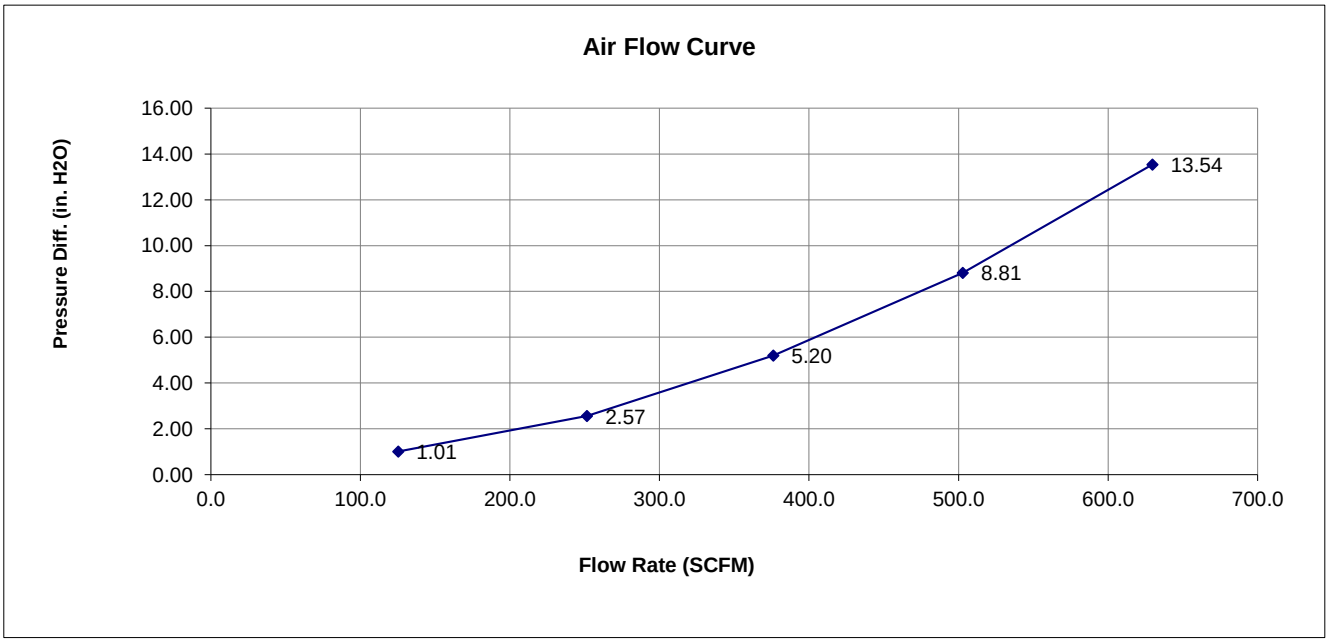
Test #: 918 1R
Sample #: 1R
Filter #: FA-1950
Housing #: 2021 FORD F250/350.6.2L
Date Code: 45169

EM
10/9/2023
FORD
FORD

Test Description: 2021 FORD F250/350.6.2L INTAKE RESTRICION TEST

Test Conditions

Barometric Pressure:	28.69994 in. Hg	**Relative Humidity:**	51 %
Air Flow Type:	SCFM	**Temperature:**	71 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
125	1.01
252	2.57
376	5.20
503	8.81
630	13.54

Air Filter Full Life Efficiency Test Report

Test #: 918 2CE
Sample #: 2CE
Filter #: FA 1950
Housing #: 2021 FORD F250/350. 6.2L
Date Code: 45169

Operator: EM
Report Date: 10/9/2023
Filter Mfg.: FORD
Housing Mfg.: FORD

Test Description: 2021 FORD F250/350. 6.2L CE TEST

Test Conditions

Barometric Pressure:	28.691 in. Hg	**Relative Humidity:**	51 %
Air Flow Setpoint:	630 SCFM	**Type of Dust:**	
Test Procedure:	CE	**Batch #:**	
Air Flow Type:	SCFM	**Temperature:**	71 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	17.84 g/min
Flow Direction:		**Pleat Depth:**	in.

Test Results

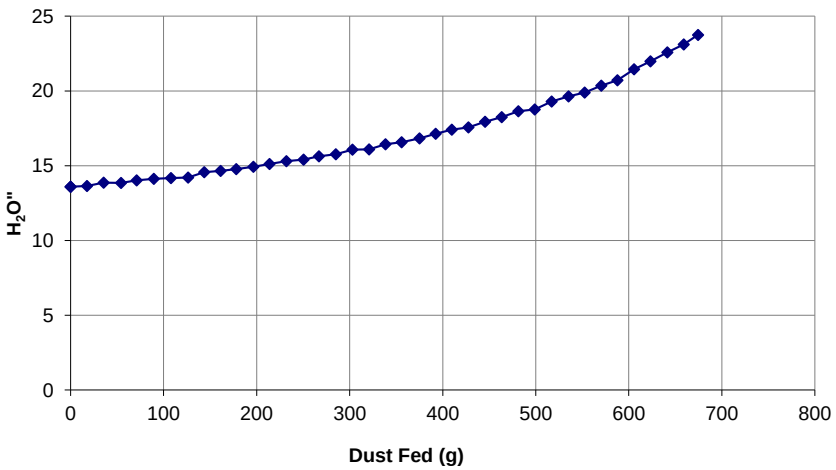
Initial Delta P 13.36 in. H2O

Accumulative Capacity: 681.20 g
Test Time: 37.85 min

	Initial		Accumulative	
			Kit	Blanket
Start			4815.70	580.80
End			5496.90	581.85
Gain			681.20	1.05
Efficiency			99.85%	

Standard Restriction

Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	13.593
17.481	13.644
35.467	13.861
54.263	13.844
71.105	14.02
89.5	14.124
107.849	14.178
126.21	14.208
143.515	14.563
161.379	14.653
177.987	14.772
196.444	14.918
213.922	15.119
232.05	15.309
250.426	15.408
267.012	15.634
285.07	15.763
303.006	16.072
320.787	16.087
338.493	16.439
355.776	16.563
375.086	16.823
392.297	17.135
409.594	17.412