Automotive & Powersports

THE FACTS ABOUT YOUR INTAKE & AIR

ISO 5011 Tested to Make Sure You Maximize Airflow While Still Protecting Your Engine.

Part Number: 75-5077, 75-5077D
Description: Performance Intake Kit & Filter
Vehicle Applications: 2010-2015 Ford F-150, Raptor 6.2L

Test Date: 01/06/17
Test Report #: 1, 3, 5, 6, 7, 8

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 20.80% 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 over state airflow.
If they state that their filter will flow, lets say 1000 cfm, without stating at what restriction level, they are trying to mislead you.

Description	% S&B Flowed Better than Stock (tested @ 482 cfm)
S&B Intake w/ Cleanable Filter	20.80%
S&B Intake w/ Dry Filter	17.69%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	482 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13099C
Dust Feed Rate (grams/minute)	13.65

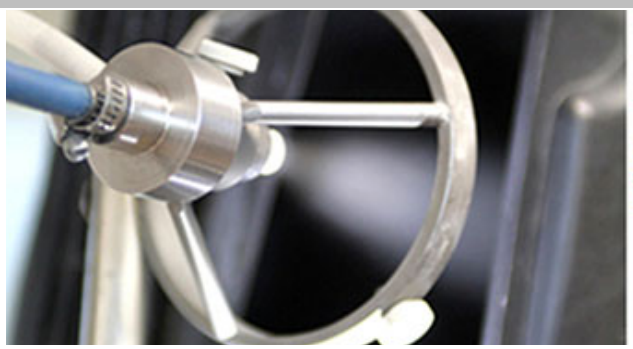
FACT: S&B Protects Your Engine

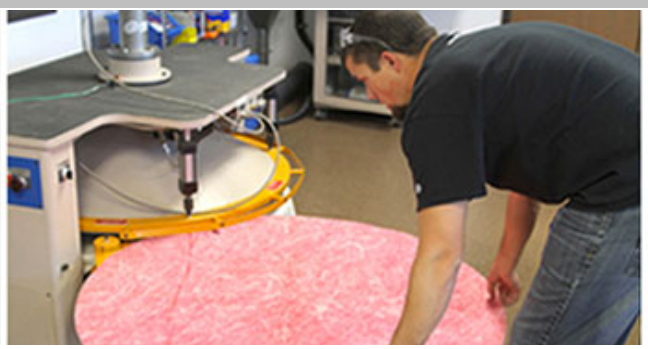
S&B tests at the highest rated CFM for your vehicle when determining the efficiency rate (amount of dust the filter stops), so that we can be sure that your engine will be protected.

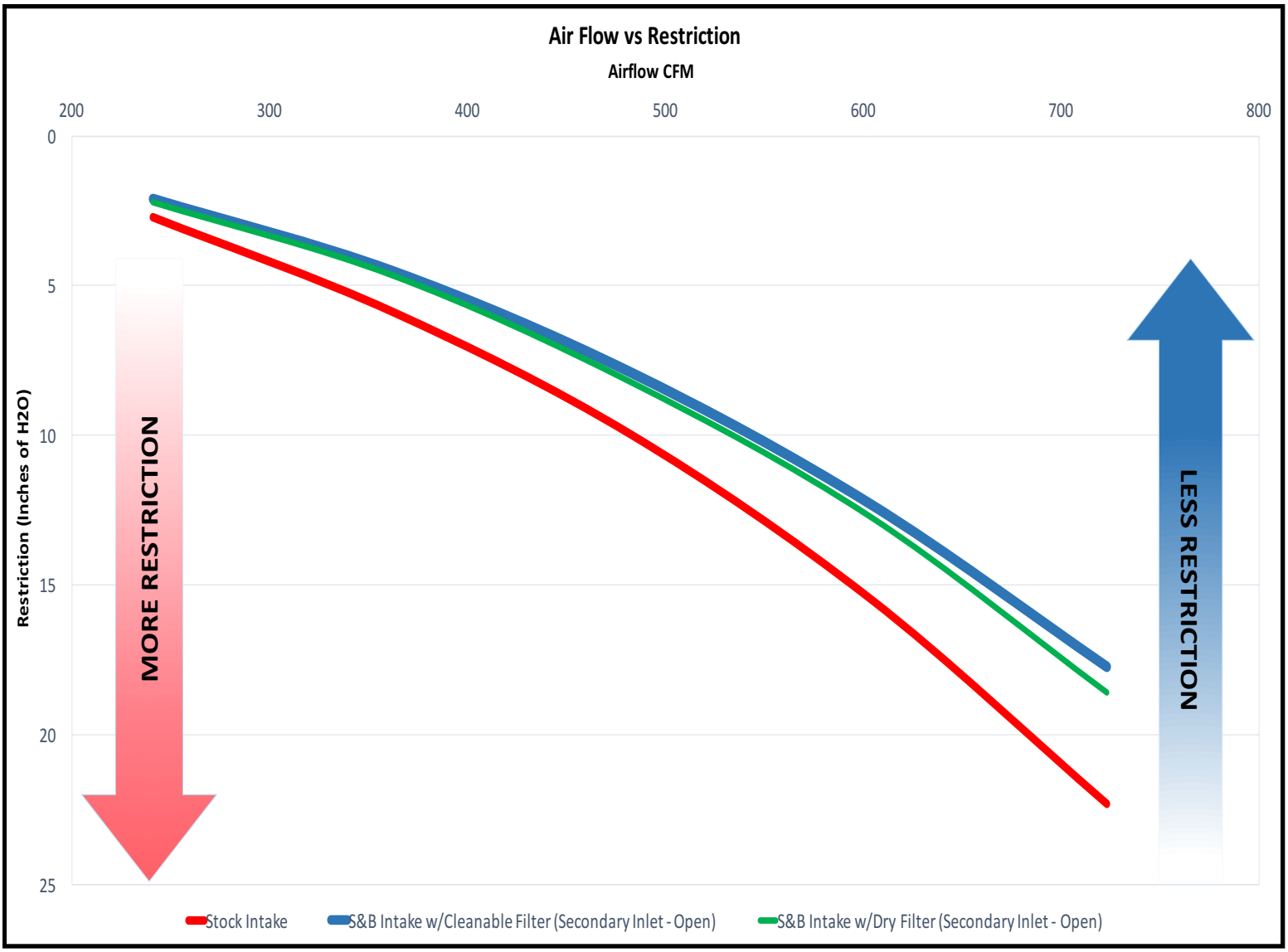
Description	Efficiency Rate (tested @ 482 cfm)
Stock	99.80%
S&B Intake w/ Cleanable Filter	99.28%
S&B Intake w/ Dry Filter	99.69%

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 Restriction Test Report

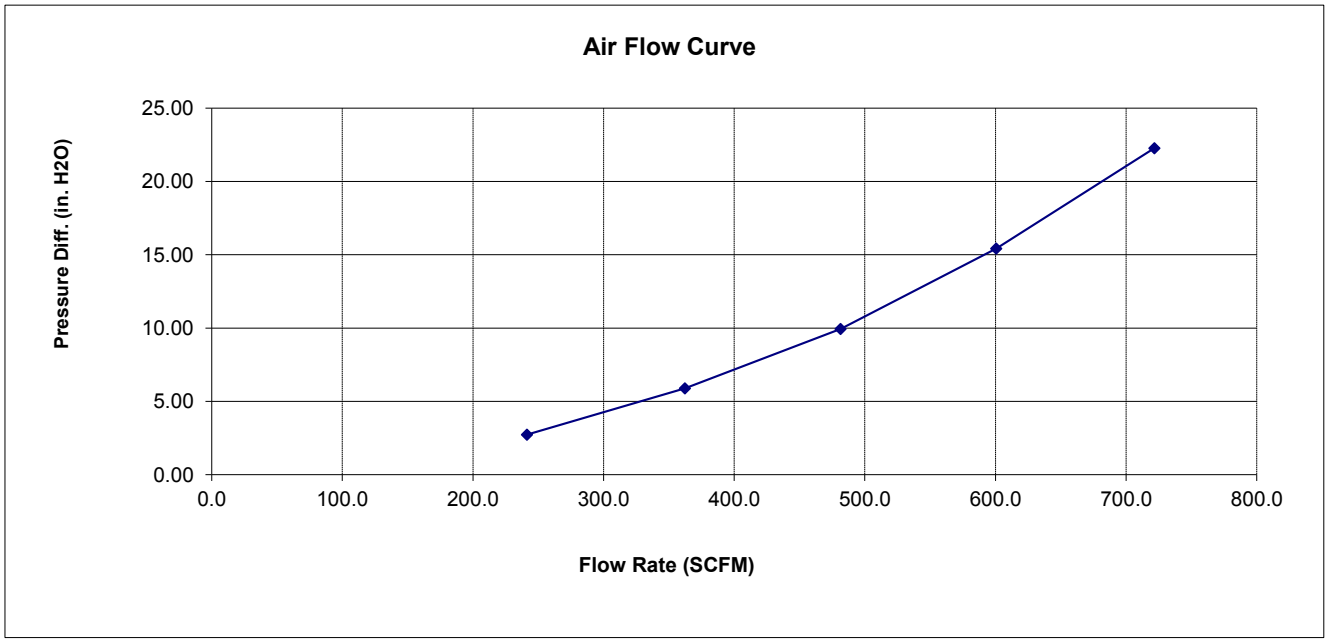
Test #: 419
Sample #: 1
Filter #: FA-1883
Housing #:
Date Code:

Operator: SD
Report Date: 1/6/2017
Filter Mfg.:
Housing Mfg.:

Test Description: STOCK INTAKE, NO SENSOR, NO CCV, RESONATOR, STOCK INLET, STOCK FILTER # FA-1883

Test Conditions

Barometric Pressure:	28.92406 in. Hg	**Relative Humidity:**	49 %
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
241	2.73
362	5.88
482	9.95
601	15.42
722	22.28

Air Filter Restriction Test Report

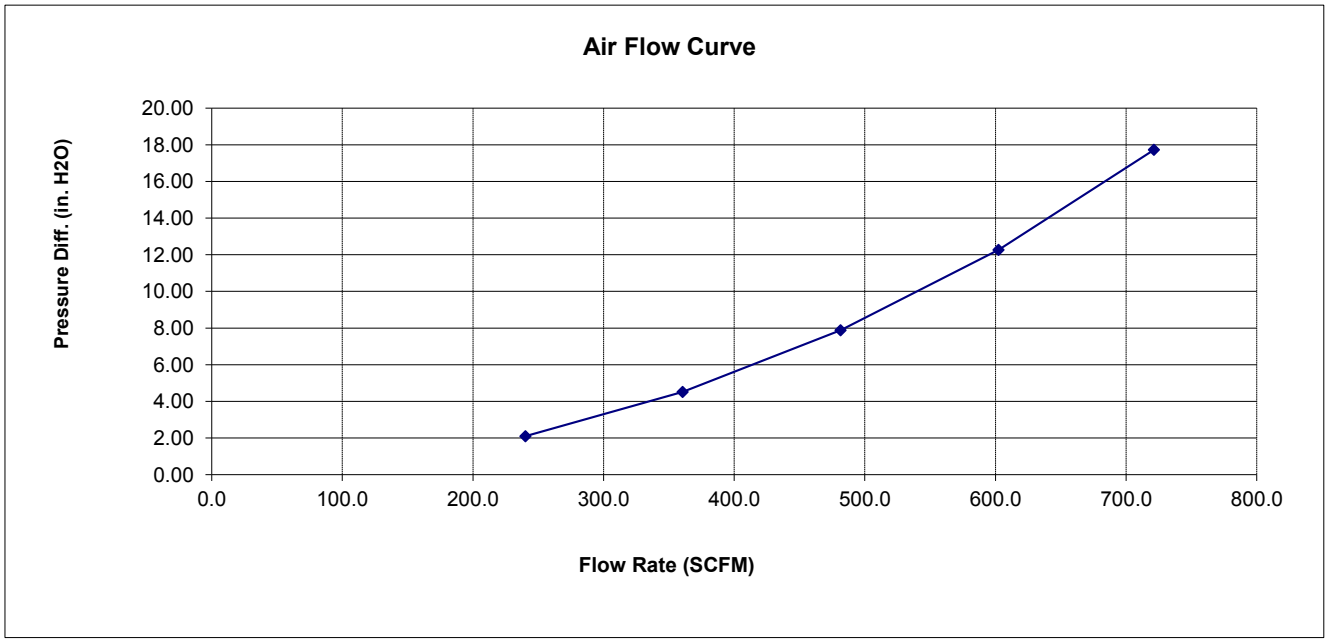
Test #: 419
Sample #: 5
Filter #: KF-1058
Housing #: 75-5077
Date Code:

Operator: SD
Report Date: 1/6/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5077 PRODUCTION KIT, NO SENSOR, NO CCV, S&B INLET, KF-1058

Test Conditions

Barometric Pressure:	28.95366 in. Hg	**Relative Humidity:**	49 %
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
240	2.10
361	4.51
482	7.88
602	12.27
721	17.73

Air Filter Restriction Test Report

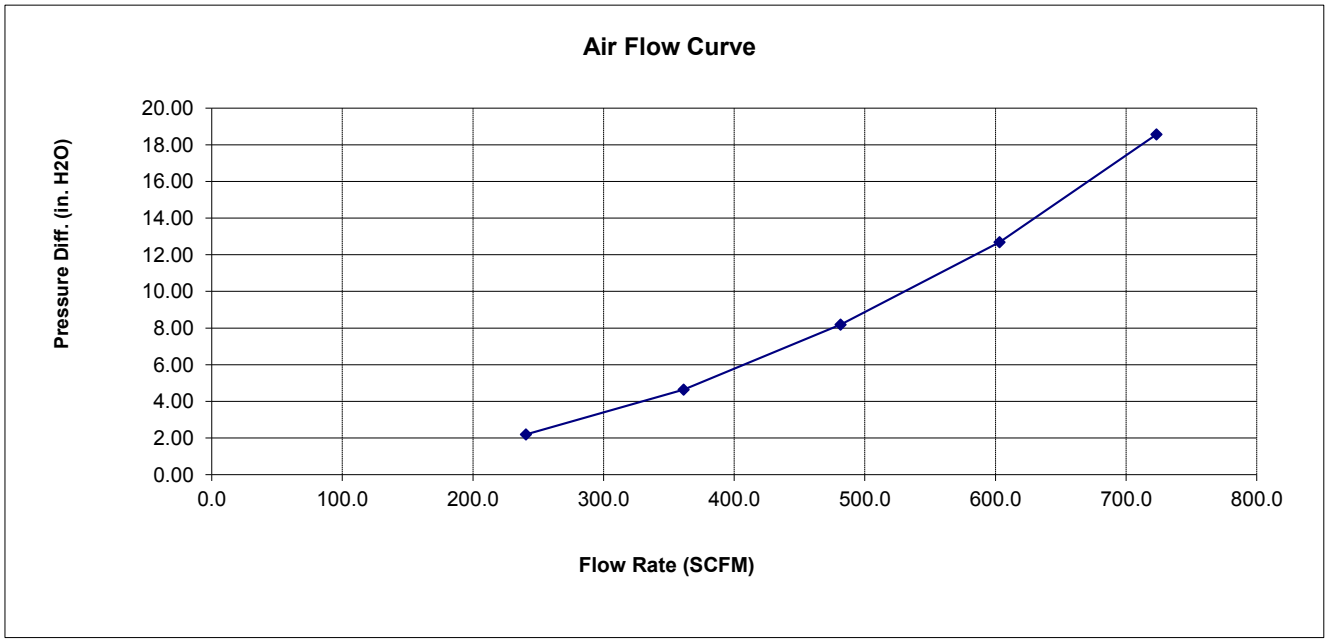
Test #: 419
Sample #: 6
Filter #: KF-1058D
Housing #: 75-5077
Date Code:

Operator: SD
Report Date: 1/6/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5077 PRODUCTION KIT, NO SENSOR, NO CCV, S&B INLET, KF-1058D

Test Conditions

Barometric Pressure:	28.94699 in. Hg	**Relative Humidity:**	49 %
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
241	2.20
361	4.64
481	8.19
603	12.68
723	18.57

Air Filter Full Life Efficiency Test Report

Test #: 419
Sample #: 3
Filter #: FA-1883
Housing #:
Date Code:

Operator: SD
Report Date: 1/6/2017
Filter Mfg.:
Housing Mfg.:

Test Description: STOCK INTAKE, NO SENSOR, NO CCV, RESONATOR, STOCK INLET, STOCK FILTER # FA-1883

Test Conditions

Barometric Pressure:	28.935 in. Hg	**Relative Humidity:**	48 %
Air Flow Setpoint:	482 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13099C
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	13.65 g/min
Flow Direction:		**Pleat Depth:**	in.

Test Results

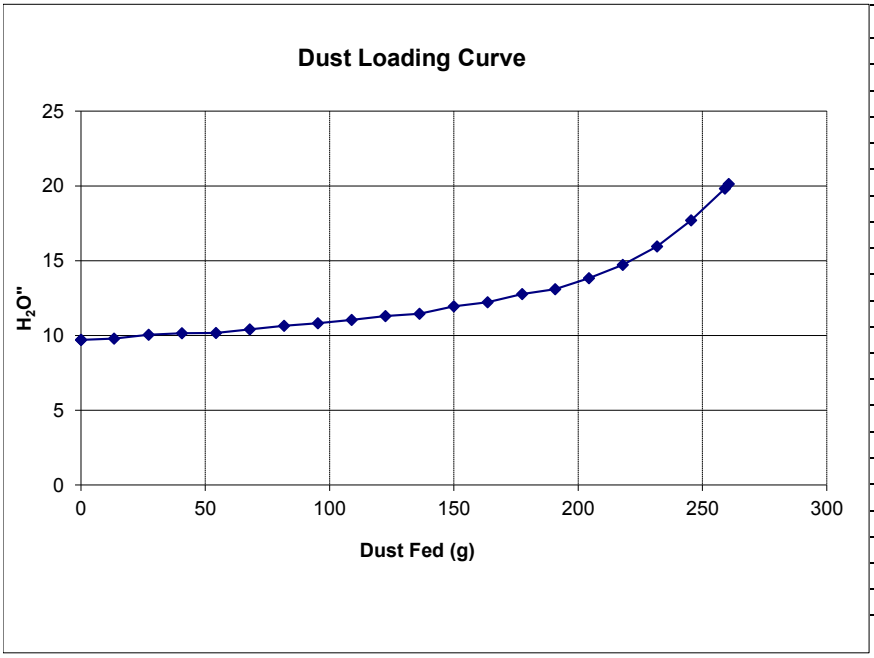
Initial Delta P 9.75 in. H2O

Accumulative Capacity: 260.60 g
Test Time: 19.12 min

	Initial		Accumulative	
		Blanket		Blanket
Start			5939.40	139.44
End			6200.00	139.96
Gain			260.60	0.52
Efficiency			99.80%	

Standard Restriction

Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	9.702
13.347	9.795
27.244	10.047
40.561	10.152
54.343	10.157
67.946	10.412
81.67	10.64
95.299	10.824
108.852	11.034
122.471	11.288
136.221	11.448
149.959	11.938
163.561	12.218
177.494	12.769
190.742	13.096
204.363	13.826
217.932	14.722
231.783	15.948
245.392	17.703
259.035	19.815
260.529	20.131

Air Filter Full Life Efficiency Test Report

Test #: 419
Sample #: 7
Filter #: KF-1058D
Housing #: 75-5077
Date Code:

Operator: SD
Report Date: 1/6/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5077 PRODUCTION KIT, NO SENSOR, NO CCV, S&B INLET, KF-1058D

Test Conditions

Barometric Pressure:	28.914 in. Hg	**Relative Humidity:**	51 %
Air Flow Setpoint:	482 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13099C
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	13.65 g/min
Flow Direction:		**Pleat Depth:**	in.

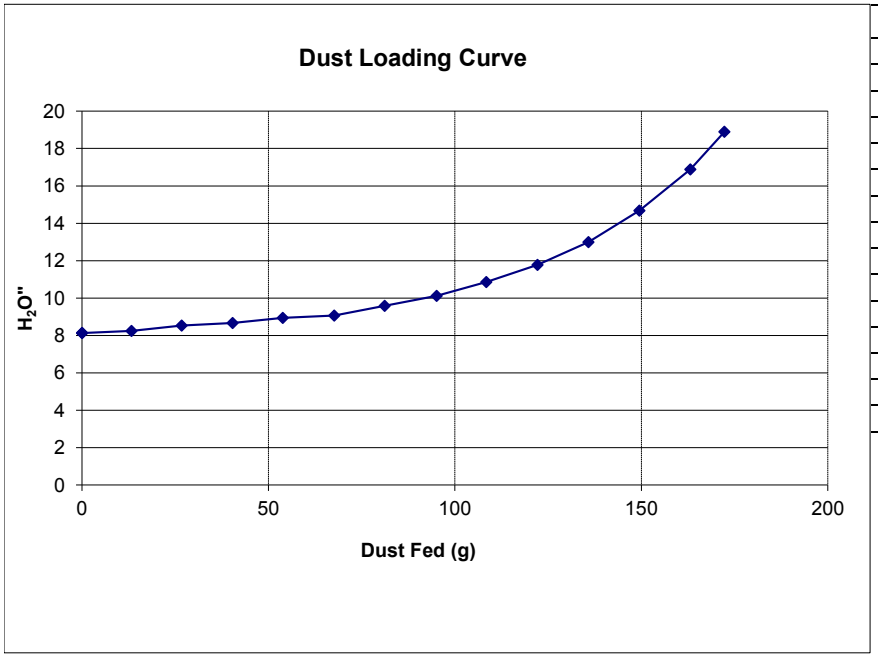
Test Results

Initial Delta P 8.09 in. H2O

Accumulative Capacity: 171.80 g
Test Time: 12.68 min

	Initial		Accumulative	
		Blanket		Blanket
Start			6018.10	143.55
End			6189.90	144.08
Gain			171.80	0.53
Efficiency			99.69%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	8.127
13.257	8.236
26.76	8.526
40.364	8.666
53.871	8.936
67.66	9.069
81.198	9.586
95.13	10.12
108.414	10.851
122.142	11.774
135.851	12.996
149.484	14.672
163.143	16.884
172.291	18.892

Air Filter Full Life Efficiency Test Report

Test #: 419
Sample #: 8
Filter #: KF-1058
Housing #: 75-5077
Date Code:

Operator: SD
Report Date: 1/6/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5077 PRODUCTION KIT, NO SENSOR, NO CCV, S&B INLET, KF-1058

Test Conditions

Barometric Pressure:	28.909 in. Hg	**Relative Humidity:**	50 %
Air Flow Setpoint:	482 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13099C
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	13.65 g/min
Flow Direction:		**Pleat Depth:**	in.

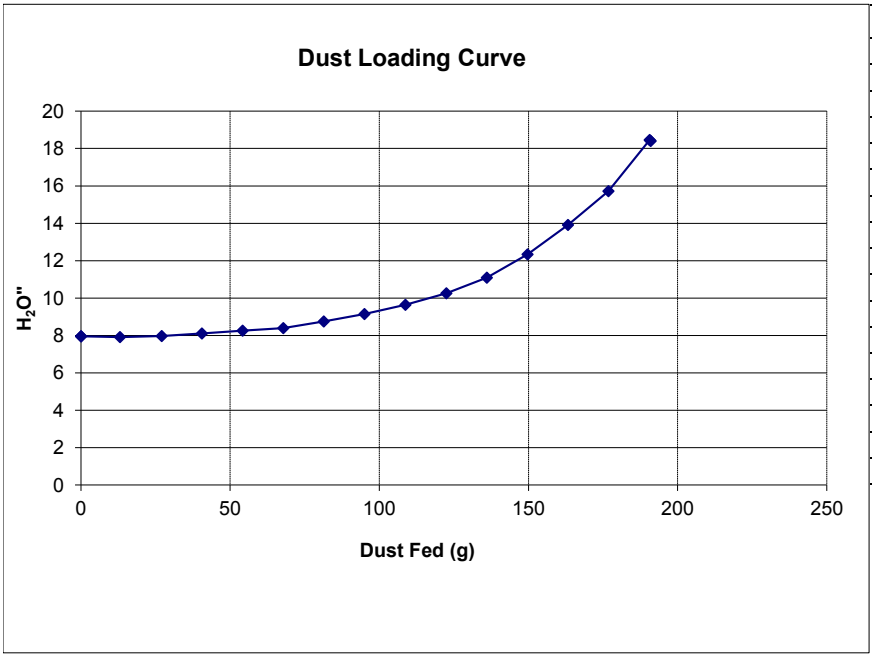
Test Results

Initial Delta P 7.98 in. H2O

Accumulative Capacity: 189.60 g
Test Time: 14.02 min

	Initial		Accumulative	
		Blanket		Blanket
Start			6051.80	144.08
End			6241.40	145.45
Gain			189.60	1.37
Efficiency			99.28%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	7.959
13.083	7.91
27.032	7.964
40.536	8.103
54.158	8.258
67.851	8.392
81.34	8.751
94.985	9.151
108.731	9.644
122.462	10.257
136.008	11.088
149.682	12.332
163.223	13.911
176.782	15.718
190.602	18.458
190.969	18.399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