



Automotive & Powersports THE FACTS ABOUT YOUR INTAKE & AIR

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

Part Number: 75-5096, 75-5096D
Description: Performance Intake Kit & Filter
Vehicle Applications: 2016 – 2017 Toyota Tacoma 3.5L

Test Date: 05/05/17
Test Report #: 1, 2, 9, 10, 11, 12, 13, 14

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 43.83% 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 @ 297 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	37.15%
S&B Intake w/ Cleanable Filter (Secondary Inlet Scoop Installed)	43.83%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	36.26%
S&B Intake w/ Dry Filter (Secondary Inlet Scoop Installed)	42.35%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	297 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13240C
Dust Feed Rate (grams/minute)	8.41

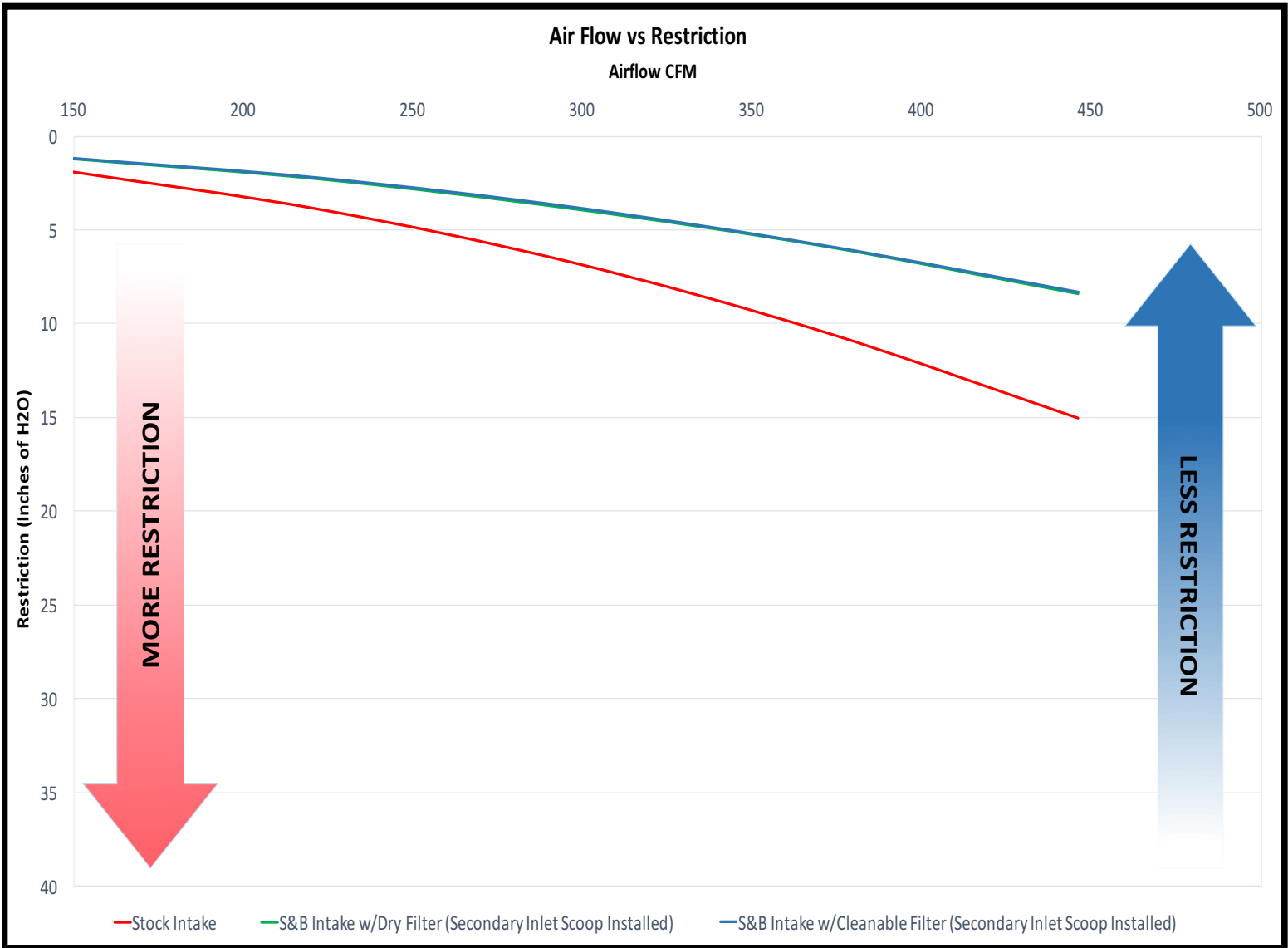
FACT: S&B Protects Your Engine

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 @ 297 cfm)
Stock	99.93%
S&B Intake w/ Cleanable Filter	99.19%
S&B Intake w/ Dry Filter	99.65%

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 #: 449
Sample #: 1
Filter #: 17801-09100
Housing #:
Date Code:

Operator: SD
Report Date: 5/5/2017
Filter Mfg.:
Housing Mfg.:



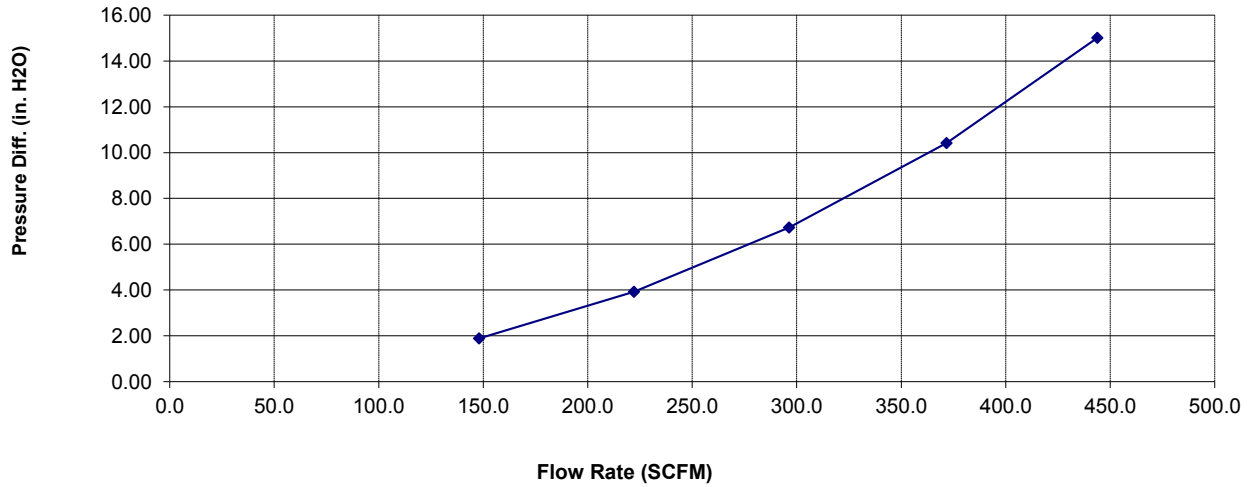
Test Description: STOCK INTAKE AND FILTER, NO SENSOR, NO CCV, FILTER# 17801-0P100

Test Conditions

Barometric Pressure: 28.85754 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 52 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
148	1.89
222	3.92
296	6.73
372	10.42
444	15.01

Air Filter Restriction Test Report

Test #: 449
Sample #: 9
Filter #: KF-1035
Housing #: 75-5096
Date Code:

Operator: SD
Report Date: 5/5/2017
Filter Mfg.:
Housing Mfg.:



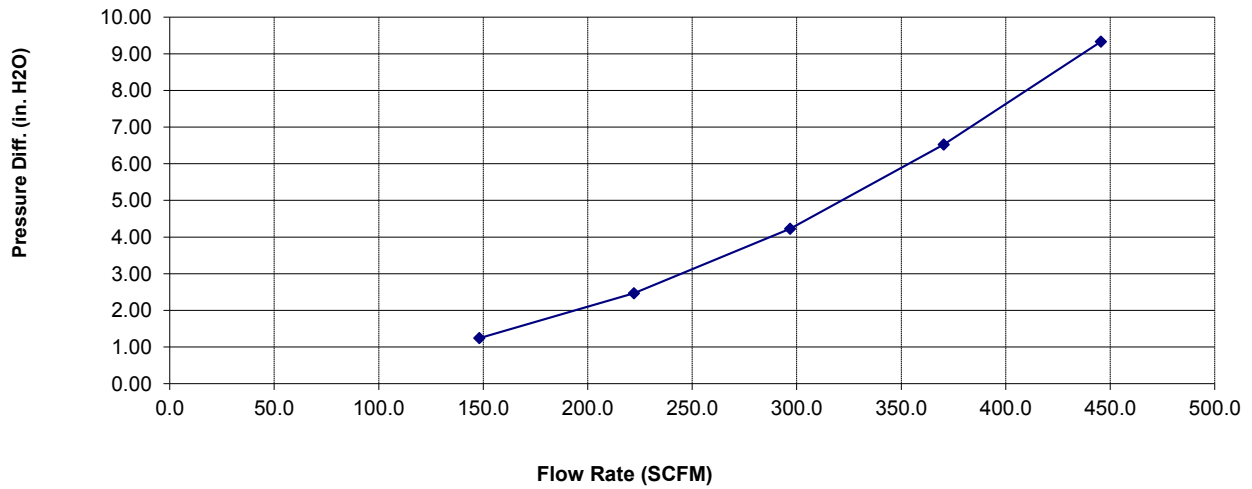
Test Description: 75-5096 PRODUCTION KIT, NO SENSORS, NO CCV, FENDER SEAL INSTALLED, PLUG INSTALLED, KF-1035

Test Conditions

Barometric Pressure: 28.82024 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 47 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
148	1.24
222	2.47
297	4.23
370	6.53
446	9.33

Air Filter Restriction Test Report

Test #: 449
Sample #: 10
Filter #: KF-1035
Housing #: 75-5096
Date Code:

Operator: SD
Report Date: 5/5/2017
Filter Mfg.:
Housing Mfg.:



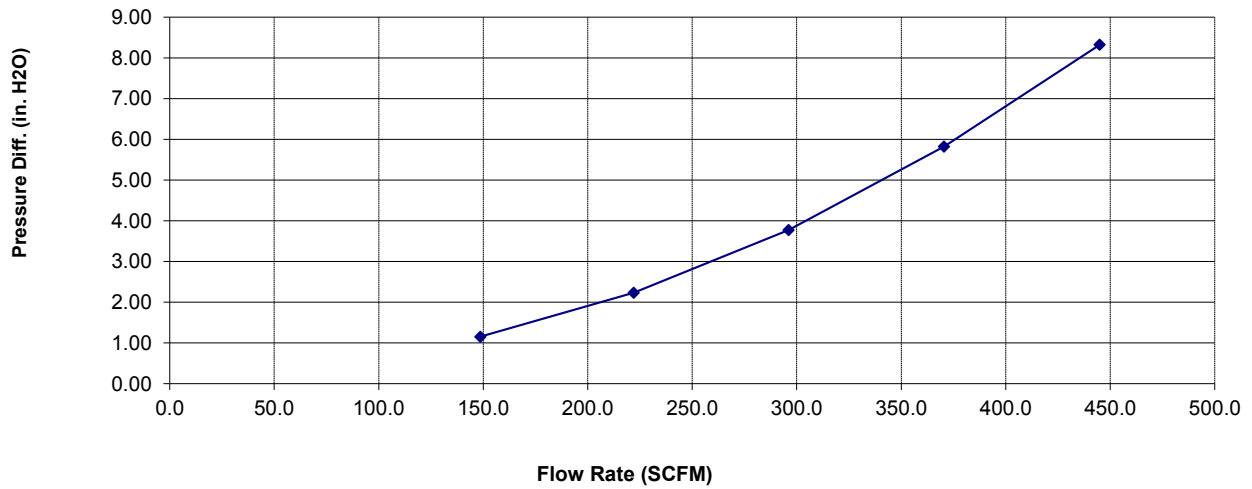
Test Description: 75-5096 PRODUCTION KIT, NO SENSORS, NO CCV, FENDER SEAL INSTALLED, SCOOP INSTALLED, KF-1035

Test Conditions

Barometric Pressure: 28.81803 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 47 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
149	1.16
222	2.23
296	3.78
370	5.83
445	8.32

Air Filter Restriction Test Report

Test #: 449
Sample #: 12
Filter #: KF-1035D
Housing #: 75-5096
Date Code:

Operator: SD
Report Date: 5/5/2017
Filter Mfg.:
Housing Mfg.:



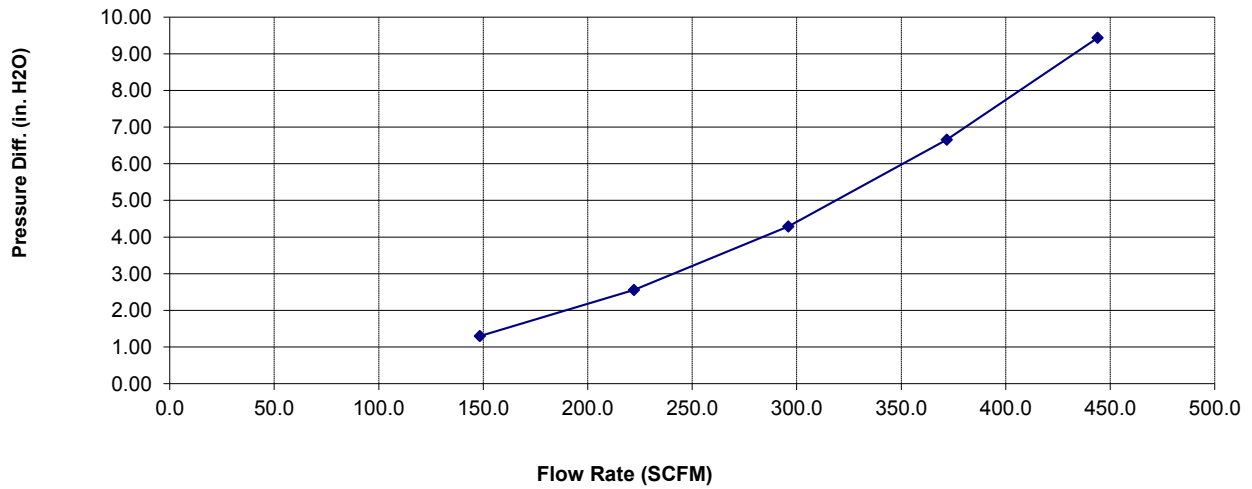
Test Description: 75-5096 PRODUCTION KIT, NO SENSORS, NO CCV, FENDER SEAL INSTALLED, PLUG INSTALLED, KF-1035D

Test Conditions

Barometric Pressure: 28.8167 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 48 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
148	1.30
222	2.56
296	4.29
372	6.66
444	9.44

Air Filter Restriction Test Report

Test #: 449
Sample #: 13
Filter #: KF-1035D
Housing #: 75-5096
Date Code:

Operator: SD
Report Date: 5/5/2017
Filter Mfg.:
Housing Mfg.:



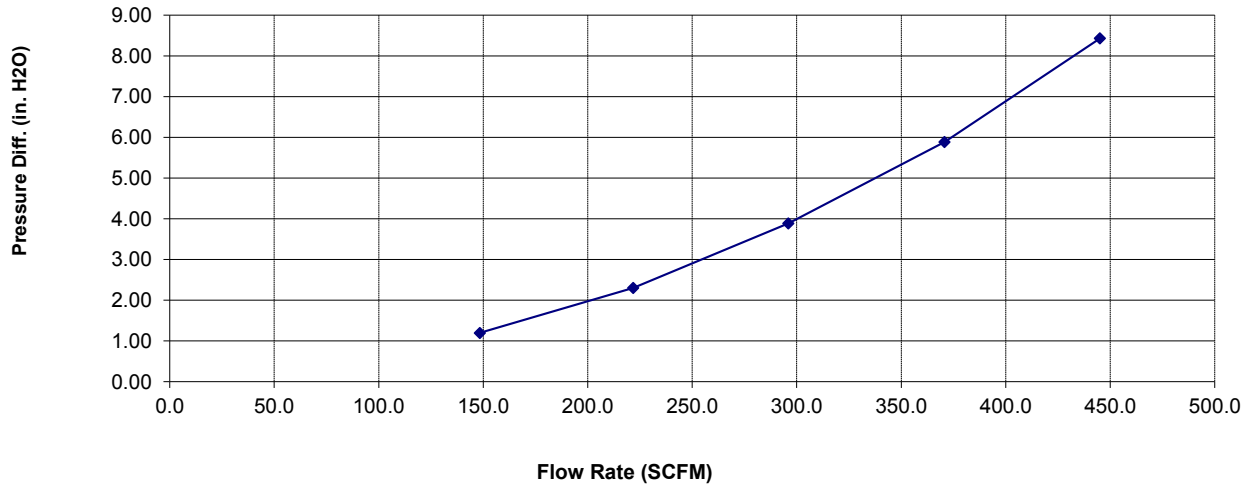
Test Description: 75-5096 PRODUCTION KIT, NO SENSOR, NO CCV, FENDER SEAL INSTALLED, SCOOP INSTALLED, KF-1035D

Test Conditions

Barometric Pressure: 28.81326 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 48 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
148	1.20
222	2.30
296	3.88
371	5.88
445	8.43

Air Filter Full Life Efficiency Test Report

Test #: 449
Sample #: 2
Filter #: 17801-0P100
Housing #:
Date Code:

Operator: SD
Report Date: 5/5/2017
Filter Mfg.:
Housing Mfg.:



Test Description: STOCK INTAKE AND FILTER, NO SENSOR, NO CCV, FILTER# 17801-0P100

Test Conditions

Barometric Pressure: 28.851 in. Hg	Relative Humidity: 52 %
Air Flow Setpoint: 297 SCFM	Type of Dust: A4 COARSE
Test Procedure:	Batch #: 13228C
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: 8.41 g/min
Flow Direction:	Pleat Depth: in.

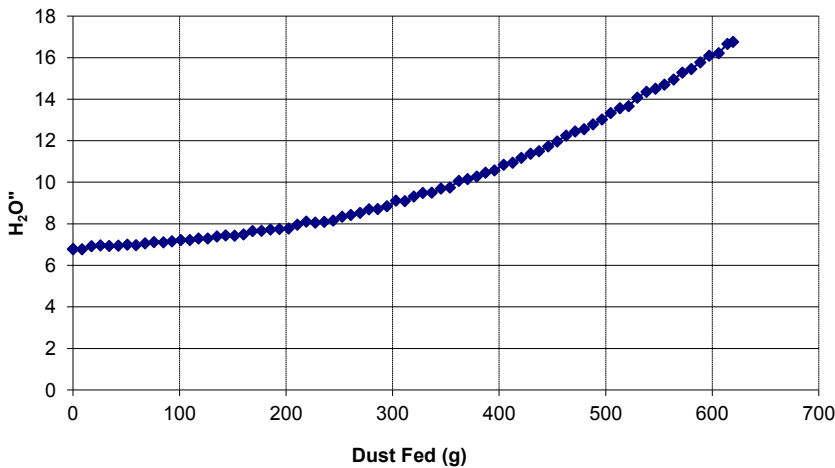
Test Results

Initial Delta P: 6.89 in. H2O	Accumulative Capacity: 620.30 g
	Test Time: 73.60 min

	Initial		Accumulative	
		Blanket		Blanket
Start			3158.00	139.57
End			3778.30	140.01
Gain			620.30	0.44
Efficiency			99.93%	

- Standard Restriction
- Pressure Differential

Dust Loading Curve



Dust Loading Curve Data

Dust Fed (g)	Pressure (H2O)
0	6.775
8.545	6.78
17.28	6.921
25.676	6.963
34.06	6.941
42.547	6.949
50.956	6.997
59.305	6.98
67.707	7.057
76.094	7.116
84.804	7.113
92.829	7.154
101.299	7.215
109.587	7.218
117.909	7.293
126.457	7.289
135.065	7.395
143.174	7.44
151.784	7.427
160.178	7.49
168.565	7.654
177	7.661
185.225	7.729
193.852	7.753

Air Filter Full Life Efficiency Test Report

Test #: 449
Sample #: 11
Filter #: KF-1035
Housing #: 75-5096
Date Code:

Operator: SD
Report Date: 5/5/2017
Filter Mfg.:
Housing Mfg.:

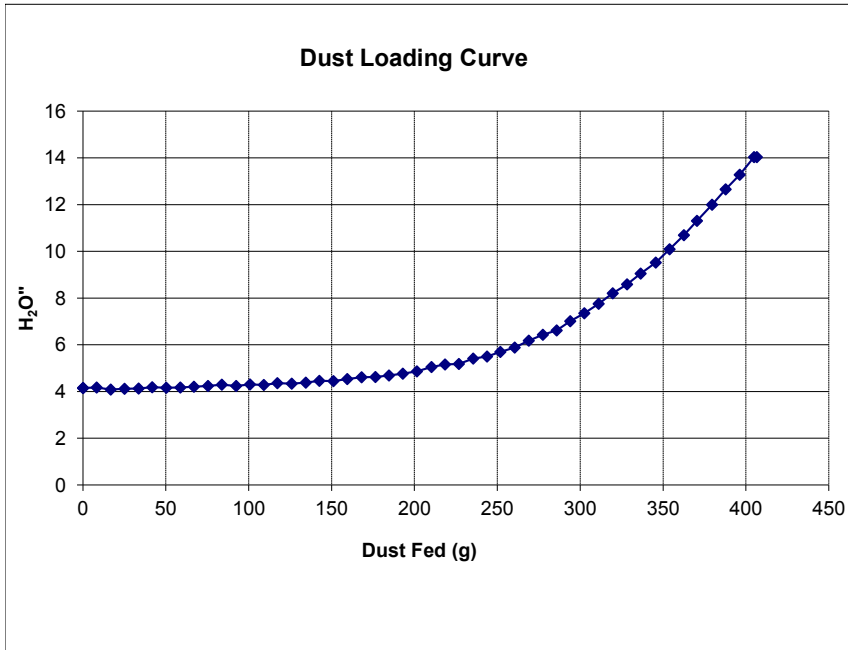


Test Description: 75-5096 PRODUCTION KIT, NO SENSORS, NO CCV, FENDER SEAL INSTALLED, PLUG INSTALLED, KF-1035

Test Conditions			
Barometric Pressure:	28.754 in. Hg	Relative Humidity:	50 %
Air Flow Setpoint:	297 SCFM	Type of Dust:	A4 COARSE
Test Procedure:		Batch #:	13240C
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:	8.41 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	4.22 in. H2O	Accumulative Capacity:	401.90 g
		Test Time:	48.24 min
	Initial	Accumulative	
		Blanket	Blanket
Start			
End		4958.60	146.27
Gain		5360.50	149.54
Efficiency		401.90	3.27
		99.19%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure (H ₂ O)
0	4.152
8.201	4.17
16.8	4.084
25.048	4.122
33.523	4.128
41.79	4.186
50.254	4.159
58.823	4.17
67.004	4.205
75.493	4.242
83.781	4.29
92.458	4.24
100.793	4.305
109.152	4.287
117.278	4.355
125.955	4.339
134.493	4.384
142.572	4.46
151.13	4.445
159.486	4.538
168.052	4.613
176.481	4.623
184.603	4.691
192.994	4.762

Air Filter Full Life Efficiency Test Report

Test #: 449
Sample #: 14
Filter #: KF-1035D
Housing #: 75-5096
Date Code:

Operator: SD
Report Date: 5/5/2017
Filter Mfg.:
Housing Mfg.:



Test Description: 75-5096 PRODUCTION KIT, NO SENSORS, NO CCV, FENDER SEAL INSTALLED, PLUG INSTALLED, KF-1035D

Test Conditions

Barometric Pressure: 28.727 in. Hg Air Flow Setpoint: 297 SCFM Test Procedure: Air Flow Type: SCFM Test Endpoint: 10 in. H2O Number of Pleats: Flow Direction:	Relative Humidity: 53 % Type of Dust: A4 COARSE Batch #: 13240C Temperature: 69 deg. F Initial Add Rate: NaN g/min Accumulative Add Rate: 8.41 g/min Pleat Depth: in.
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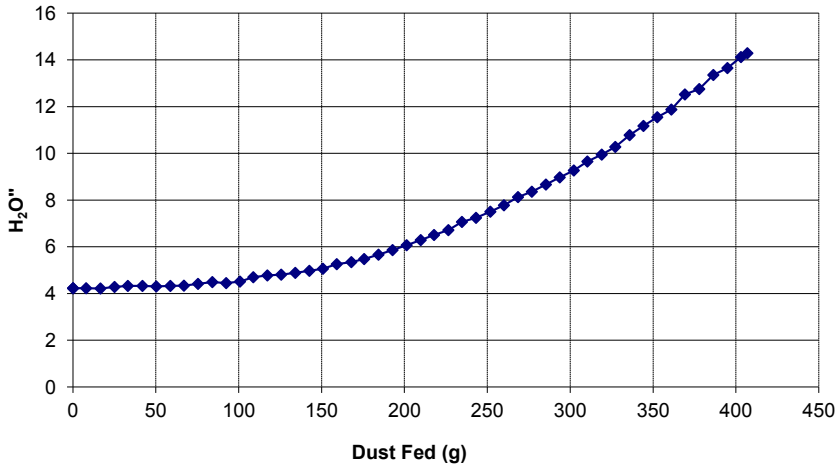
Test Results

Initial Delta P: 4.35 in. H2O
Accumulative Capacity: 405.20 g
Test Time: 48.42 min

	Initial		Accumulative	
		Blanket		Blanket
Start			4953.50	149.54
End			5358.70	150.95
Gain			405.20	1.41
Efficiency			99.65%	

- Standard Restriction
 Pressure Differential

Dust Loading Curve



Dust Loading Curve Data

Dust Fed (g)	Pressure ("H2O)
0	4.232
7.924	4.224
16.505	4.213
25.021	4.277
33.122	4.323
41.973	4.325
50.206	4.309
58.819	4.33
66.97	4.338
75.358	4.408
84.134	4.49
92.352	4.45
100.805	4.51
108.805	4.695
117.305	4.775
125.691	4.807
134.204	4.881
142.572	4.974
150.888	5.063
159.205	5.254
167.886	5.345
175.673	5.48
184.315	5.666
192.884	5.864

















