



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!

<p>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.</p>	<p>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.</p>
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Description	% S&B Flowed Better than Stock (tested @ _____ cfm)	Test Conditions
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)		Barometric Pressure
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)		Airflow Setpoint
S&B Intake w/ Dry Filter (Secondary Inlet - Open)		Relative Humidity
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)		Temperature
		Type of Dust
		Batch #
		Dust Feed Rate (grams/minute)

<p>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</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Efficiency Rate (Tested @ _____ cfm)</th> </tr> </thead> <tbody> <tr> <td>Stock</td> <td></td> </tr> <tr> <td>S&B Intake w/ Cleanable Filter</td> <td></td> </tr> <tr> <td>S&B Intake w/ Dry Filter</td> <td></td> </tr> </tbody> </table>	Description	Efficiency Rate (Tested @ _____ cfm)	Stock		S&B Intake w/ Cleanable Filter		S&B Intake w/ Dry Filter		<p>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</p>
Description	Efficiency Rate (Tested @ _____ cfm)									
Stock										
S&B Intake w/ Cleanable Filter										
S&B Intake w/ Dry Filter										

RESET FORM

Air Filter Restriction Test Report

Test #: 664
Sample #: 4
Filter #: 68386779AA-001
Housing #:
Date Code:

SD
3/11/2019
MOPAR



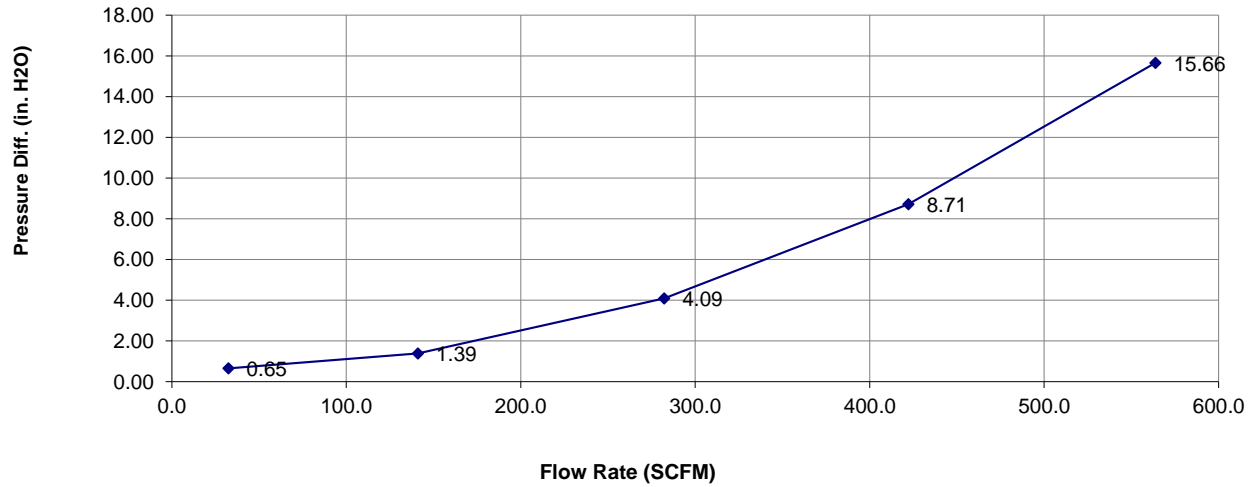
Test Description: STOCK INTAKE AND FILTER, NO CCV, NO IAT SENSOR, FILTER# 68386779AA-001

Test Conditions

Barometric Pressure: 28.79297 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 34 %
Temperature: 70 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
32	0.65
141	1.39
282	4.09
422	8.71
564	15.66

Air Filter Restriction Test Report

Test #: 664
Sample #: 6
Filter #: KF-1069
Housing #:
Date Code:

SD
3/11/2019



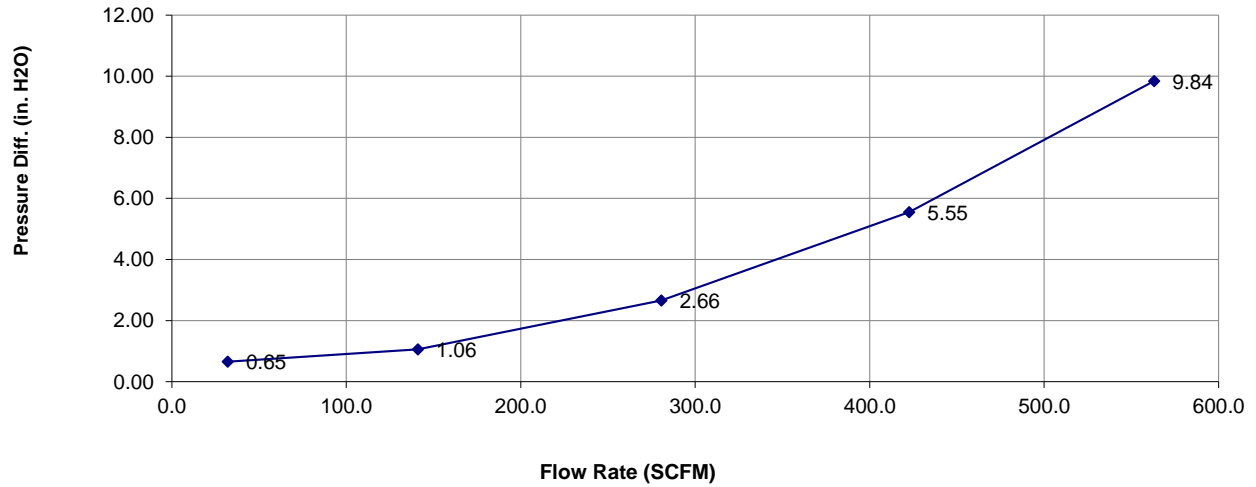
Test Description: 75-5124 PRODUCTION KIT, NO CCV, NO IAT SENSOR, BOX PLUG INSTALLED, KF-1069

Test Conditions

Barometric Pressure: 28.75102 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 33 %
Temperature: 73 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
32	0.65
141	1.06
281	2.66
423	5.55
563	9.84

Air Filter Restriction Test Report

Test #: 664
Sample #: 7
Filter #: KF-1069
Housing #:
Date Code:

SD
3/11/2019



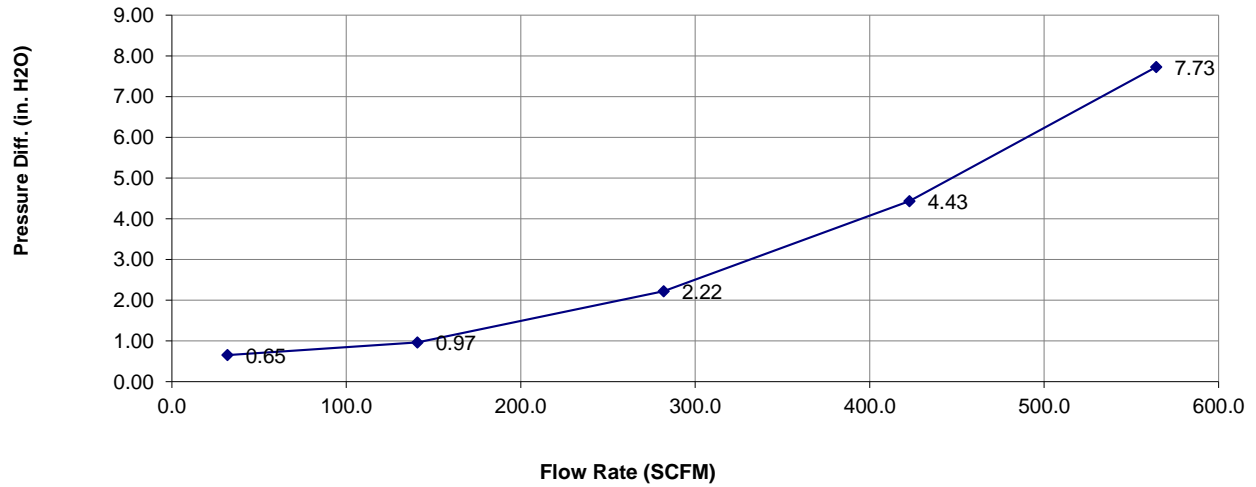
Test Description: 75-5124 PRODUCTION KIT, NO CCV, NO IAT SENSOR, BOX PLUG REMOVED, KF-1069

Test Conditions

Barometric Pressure: 28.74771 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 33 %
Temperature: 73 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
32	0.65
141	0.97
282	2.22
423	4.43
564	7.73

Air Filter Restriction Test Report

Test #: 664
Sample #: 9
Filter #: KF-1069R
Housing #:
Date Code:

SD
3/11/2019



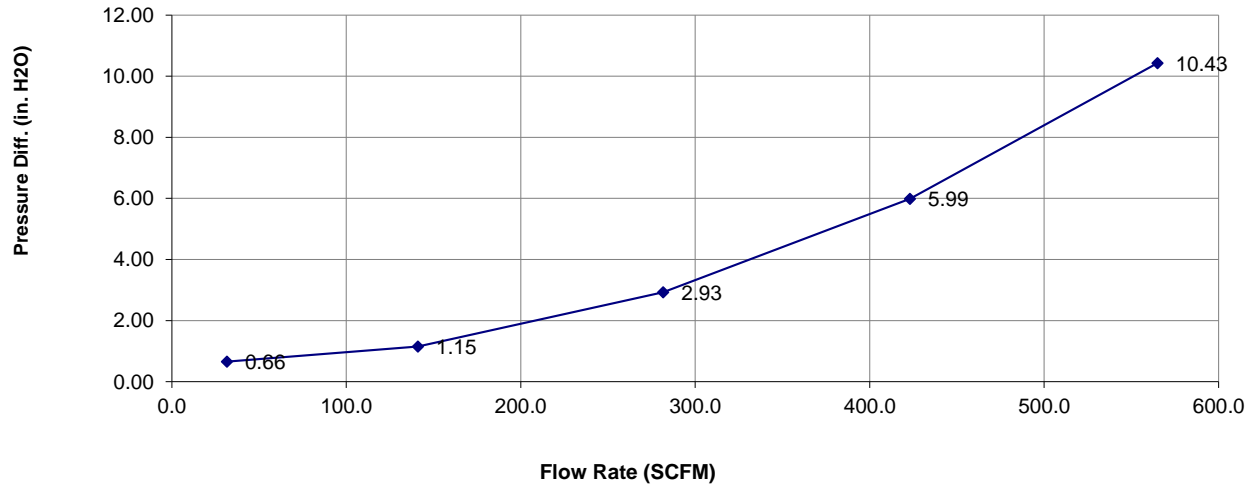
Test Description: 75-5124 PRODUCTION KIT, NO CCV, NO IAT SENSOR, BOX PLUG INSTALLED, KF-1069R

Test Conditions

Barometric Pressure: 28.68799 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 32 %
Temperature: 73 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
32	0.66
141	1.15
282	2.93
423	5.99
565	10.43

Air Filter Restriction Test Report

Test #: 664
Sample #: 10
Filter #: KF-1069R
Housing #:
Date Code:

SD
3/11/2019



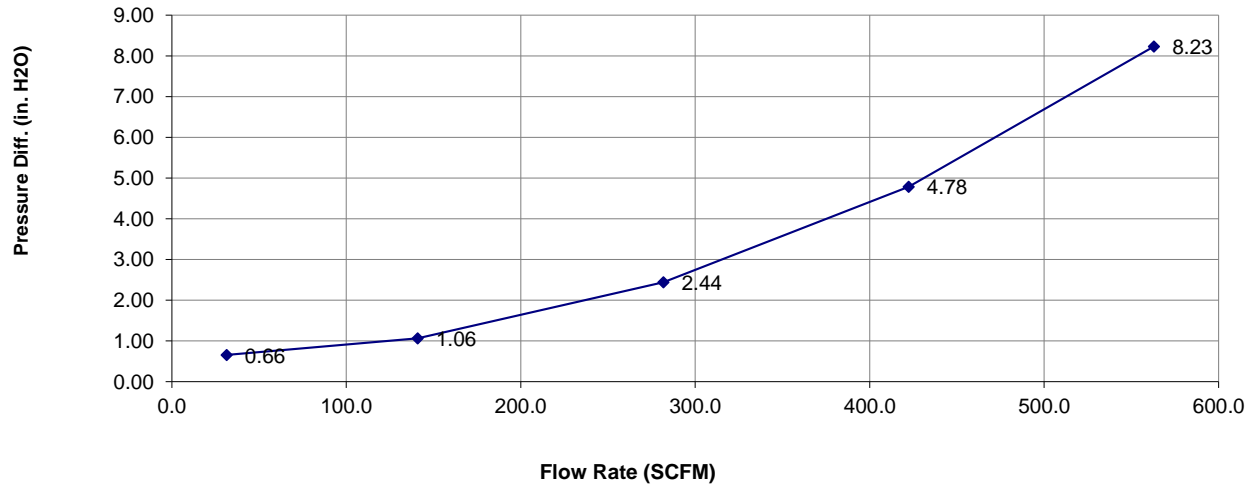
Test Description: 75-5124 PRODUCTION KIT, NO CCV, NO IAT SENSOR, BOX PLUG REMOVED, KF-1069R

Test Conditions

Barometric Pressure: 28.68461 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 31 %
Temperature: 73 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
31	0.66
141	1.06
282	2.44
422	4.78
563	8.23

Air Filter Full Life Efficiency Test Report

Test #: 664
Sample #: 5
Filter #: 68386779AA-001
Housing #:
Date Code:

Operator: SD
Report Date: 3/11/2019
Filter Mfg.: MOPAR
Housing Mfg.:



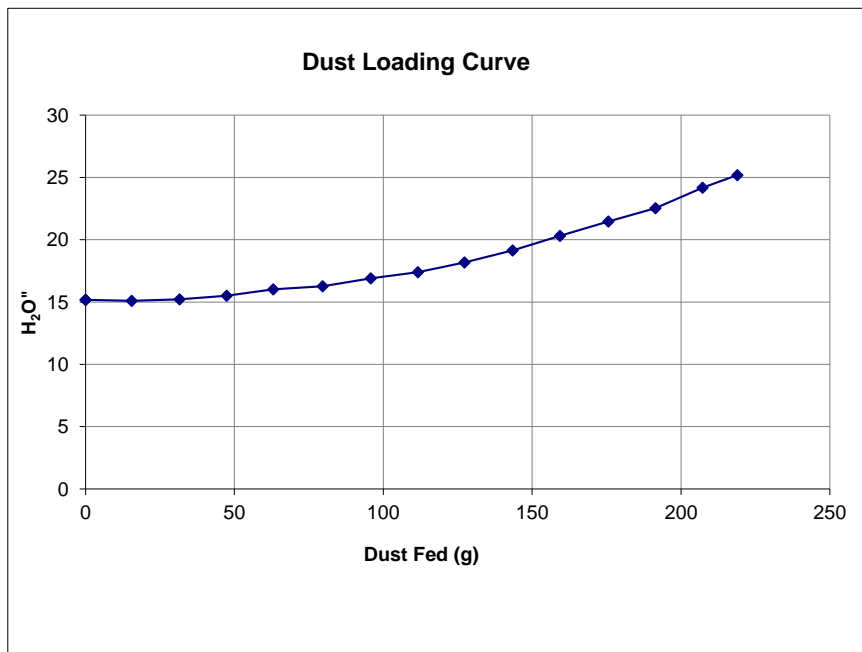
Test Description: STOCK INTAKE AND FILTER, NO CCV, NO IAT SENSOR, FILTER# 68386779AA-001

Test Conditions			
Barometric Pressure:	28.790 in. Hg	Relative Humidity:	33 %
Air Flow Setpoint:	564 SCFM	Type of Dust:	A4
Test Procedure:		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:	15.97 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	15.17 in. H2O	Accumulative Capacity:	218.30 g
		Test Time:	13.73 min

	Initial		Accumulative	
		Blanket		Blanket
Start			4329.70	588.48
End			4548.00	589.23
Gain			218.30	0.75
Efficiency			99.66%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure (H ₂ O)
0	15.171
15.458	15.097
31.579	15.212
47.399	15.515
63.036	16.01
79.634	16.256
95.77	16.905
111.604	17.4
127.224	18.166
143.404	19.141
159.357	20.312
175.606	21.467
191.387	22.537
207.232	24.184
218.902	25.186

Air Filter Full Life Efficiency Test Report

Test #: 664
Sample #: 8
Filter #: KF-1069
Housing #:
Date Code:

Operator: SD
Report Date: 3/11/2019
Filter Mfg.:
Housing Mfg.:



Test Description: 75-5124 PRODUCTION KIT, NO CCV, NO IAT SENSOR, BOX PLUG INSTALLED, KF-1069

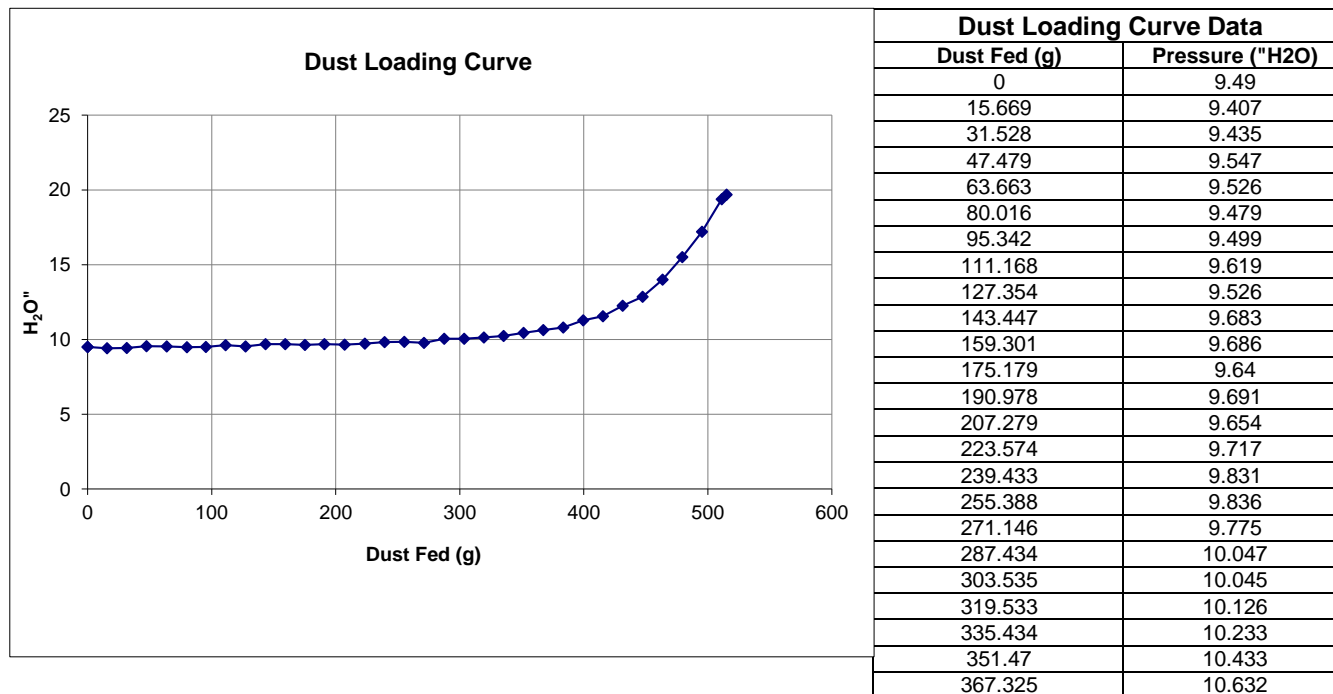
Test Conditions			
Barometric Pressure:	28.719 in. Hg	Relative Humidity:	32 %
Air Flow Setpoint:	564 SCFM	Type of Dust:	A4
Test Procedure:		Batch #:	
Air Flow Type:	SCFM	Temperature:	73 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	15.97 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	9.49 in. H2O	Accumulative Capacity:	508.30 g
		Test Time:	32.31 min

	Initial	Blanket	Accumulative	Blanket
Start			7633.40	589.26
End			8141.70	593.53
Gain			508.30	4.27
Efficiency			99.17%	

Standard Restriction

Pressure Differential



Air Filter Full Life Efficiency Test Report

Test #: 664
Sample #: 10
Filter #: KF-1069R
Housing #:
Date Code:

Operator: SD
Report Date: 3/11/2019
Filter Mfg.:
Housing Mfg.:



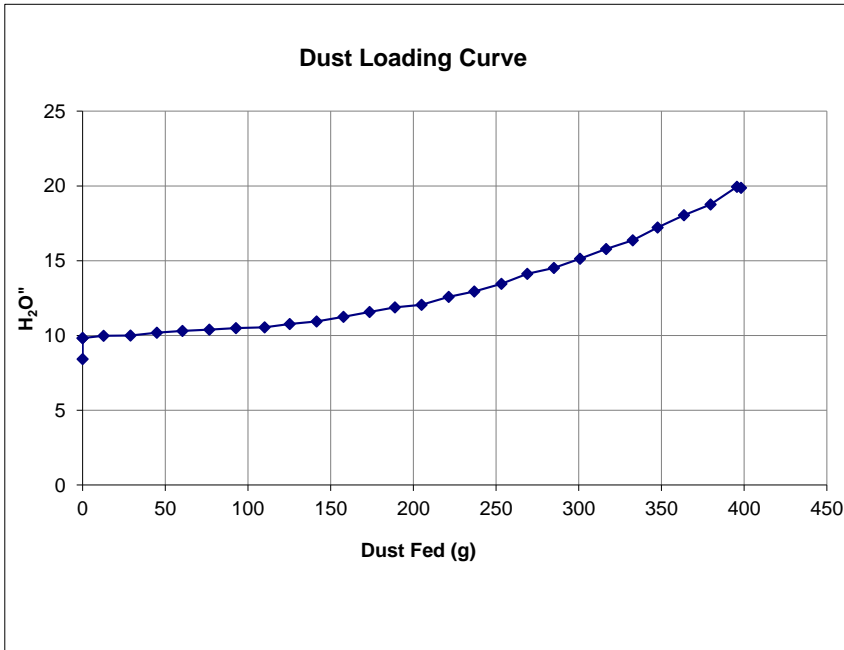
Test Description: 75-5124 PRODUCTION KIT, NO CCV, NO IAT SENSOR, BOX PLUG INSTALLED, KF-1069R

Test Conditions			
Barometric Pressure:	28.667 in. Hg	Relative Humidity:	31 %
Air Flow Setpoint:	0 SCFM	Type of Dust:	A4
Test Procedure:		Batch #:	
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:	0 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	9.82 in. H2O	Accumulative Capacity:	399.90 g
		Test Time:	24.99 min

	Initial		Accumulative	
		Blanket		Blanket
Start			7782.30	593.53
End			8182.20	594.03
Gain			399.90	0.50
Efficiency			99.88%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	9.818
0	9.818
12.696	9.971
28.884	9.993
44.858	10.19
60.316	10.295
76.618	10.39
92.739	10.496
110.05	10.541
125.246	10.758
141.421	10.939
157.649	11.246
173.479	11.574
188.889	11.869
204.996	12.045
221.407	12.584
236.809	12.935
253.167	13.455
268.928	14.117
284.905	14.515
300.763	15.131
316.571	15.777
332.705	16.357
347.633	17.221











CAUTION

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