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: 75-5132 **Test Date:** 9/21/21

Description: Cold Air Intake **Test Report #:** 837

Vehicle Applications: 19-21 RAM Cummins 6.7L Turbo Diesel

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 41.11% 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 @ 1073 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	40.63%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	36.33%
S&B Intake w/ Dry Filter (Secondary Inlet - Open	41.11%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	36.72%

Test Conditions	
Barometric Pressure	28.900
Airflow Setpoint	1073 SCFM
Relative Humidity	28%
Temperature	73 F
Type of Dust	A4 Coarse
Batch #	14057C
Dust Feed Rate (grams/minute)	30.38

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 @ _____cfm)
Stock	99.87%
S&B Intake w/ Cleanable Filter	99.89%
S&B Intake w/ Dry Filter	99.39%

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

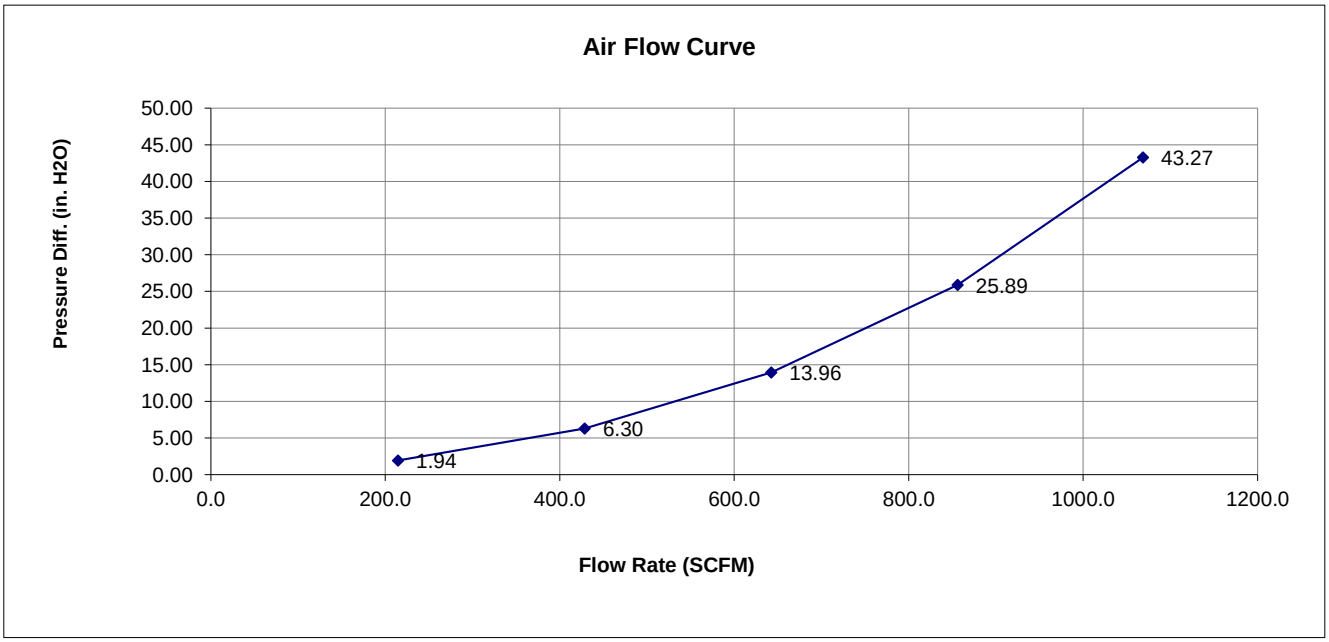
Test #: **837-01R**
Sample #: 01R
Filter #:
Housing #:
Date Code: 44459

DC
9/20/2021

Test Description: STOCK CUMMINS 19-21 6.7l RESTRICTION TEST

Test Conditions

Barometric Pressure:	28.8152 in. Hg	**Relative Humidity:**	51 %
Air Flow Type:	SCFM	**Temperature:**	67 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
215	1.94
429	6.30
643	13.96
856	25.89
1069	43.27

Air Filter Full Life Efficiency Test Report

Test #: 837-02CE
Sample #: 02CE
Filter #:
Housing #:
Date Code: 44459

Operator: DC
Report Date: 9/20/2021
Filter Mfg.:
Housing Mfg.:

Test Description: STOCK CUMMINS CAPACITY AND EFFICIENCY 6.7L

Test Conditions

Barometric Pressure:	28.802 in. Hg	**Relative Humidity:**	47 %
Air Flow Setpoint:	1073 SCFM	**Type of Dust:**	ƆARSE DUST
Test Procedure:	CE	**Batch #:**	14057C
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:**	30.38 g/min
Flow Direction:		**Pleat Depth:**	in.

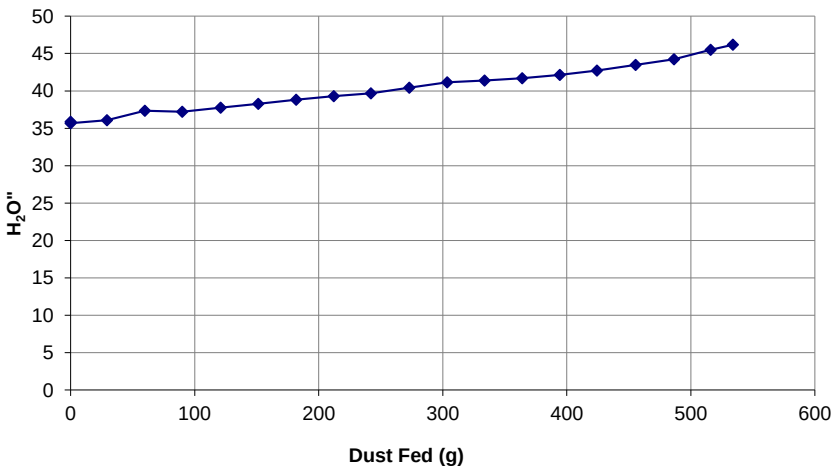
Test Results

Initial Delta P 35.81 in. H2O

Accumulative Capacity: 519.90 g
Test Time: 17.61 min

	Initial		Accumulative	
		Blanket		Blanket
Start			7181.70	572.77
End			7701.60	573.43
Gain			519.90	0.66
Efficiency			99.87%	

◉ Standard Restriction
○ Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	35.676
29.265	36.096
59.898	37.331
90.037	37.215
120.919	37.75
151.221	38.283
181.73	38.834
212.061	39.31
242.103	39.686
273.081	40.416
303.526	41.141
333.654	41.39
364.116	41.686
394.351	42.149
424.333	42.714
455.434	43.47
486.513	44.226
515.934	45.507
533.901	46.164

Air Filter Restriction Test Report

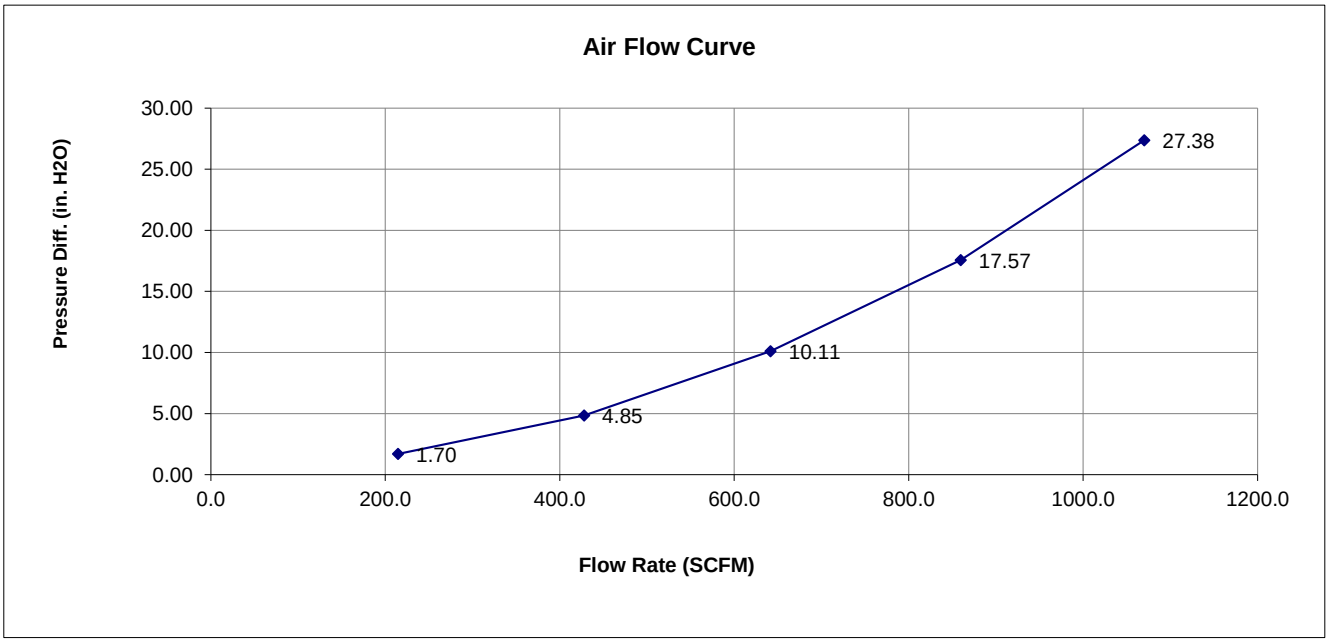
Test #: **837-03R**
Sample #: 03R
Filter #: KF-1080D
Housing #:
Date Code: 44459

DC
9/20/2021

Test Description: 75-5132 KF-1080D 220 PLEATS PLUG ON

Test Conditions

Barometric Pressure:	28.76507 in. Hg	**Relative Humidity:**	47 %
Air Flow Type:	SCFM	**Temperature:**	70 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
215	1.70
428	4.85
642	10.11
860	17.57
1070	27.38

Air Filter Restriction Test Report

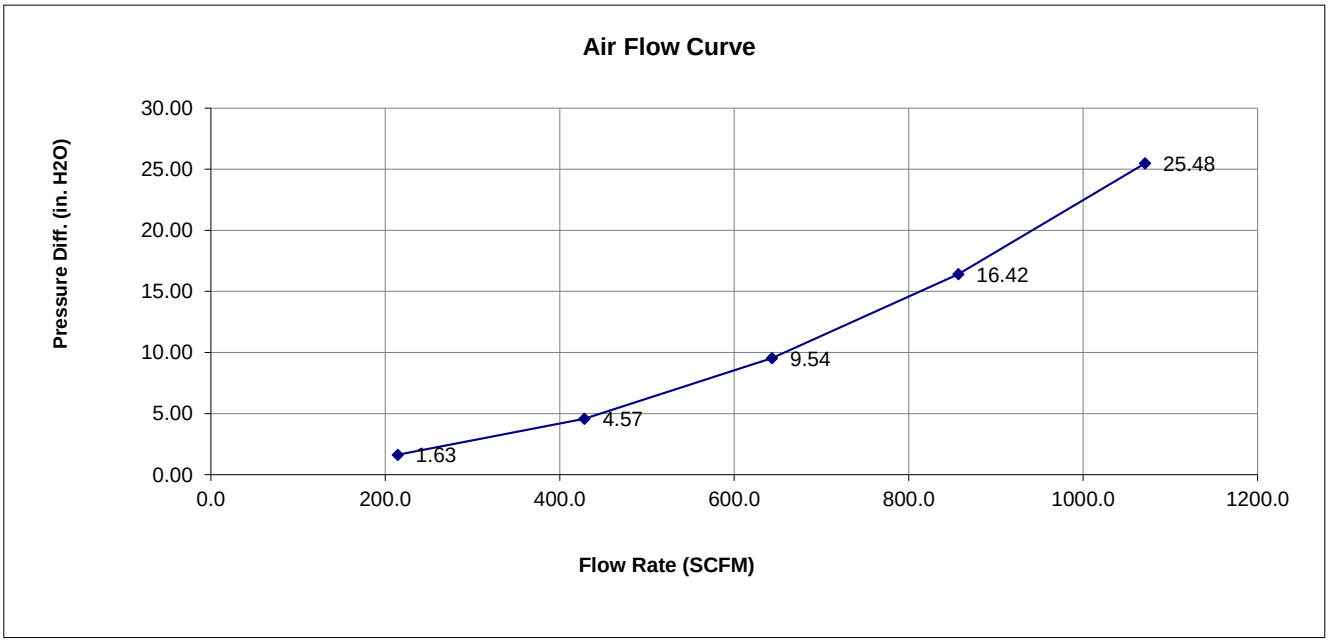
Test #: **837-04R**
Sample #: 04R
Filter #: KF-1080D
Housing #:
Date Code: 44459

DC
9/20/2021

Test Description: 75-5132 KF-1080D 220 PLEATS PLUG OFF RESTRICTION

Test Conditions

Barometric Pressure:	28.76749 in. Hg	**Relative Humidity:**	47 %
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
214	1.63
428	4.57
643	9.54
857	16.42
1071	25.48

Air Filter Full Life Efficiency Test Report

Test #: 837-05CE
Sample #: 05CE
Filter #: KF-1080D
Housing #:
Date Code: 09/220/21

Operator: DC
Report Date: 9/20/2021
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5132 KF-1080D 220 PLEATS CAPACITY AND EFFICIENCY

Test Conditions

Barometric Pressure:	28.775 in. Hg	**Relative Humidity:**	48 %
Air Flow Setpoint:	1073 SCFM	**Type of Dust:**	
Test Procedure:	CE	**Batch #:**	
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:**	30.38 g/min
Flow Direction:		**Pleat Depth:**	in.

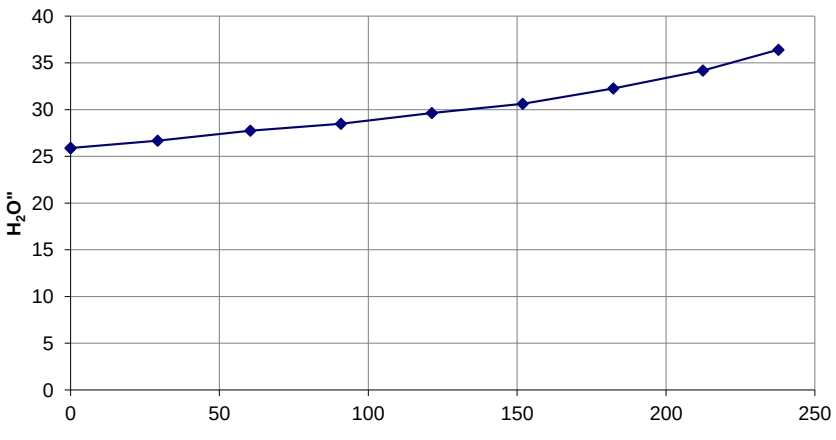
Test Results

Initial Delta P 25.83 in. H2O

Accumulative Capacity: 246.10 g
Test Time: 7.81 min

	Initial		Accumulative	
		Blanket		Blanket
Start			8355.10	581.30
End			8601.20	582.81
Gain			246.10	1.51
Efficiency			99.39%	

Standard Restriction
Pressure Differential



Dust Loading Curve Data

Dust Fed (g)	Pressure ("H2O)
0	25.889
29.261	26.668
60.396	27.751
90.823	28.494
121.337	29.631
151.869	30.626
182.344	32.271
212.421	34.184
237.735	36.405

Air Filter Restriction Test Report

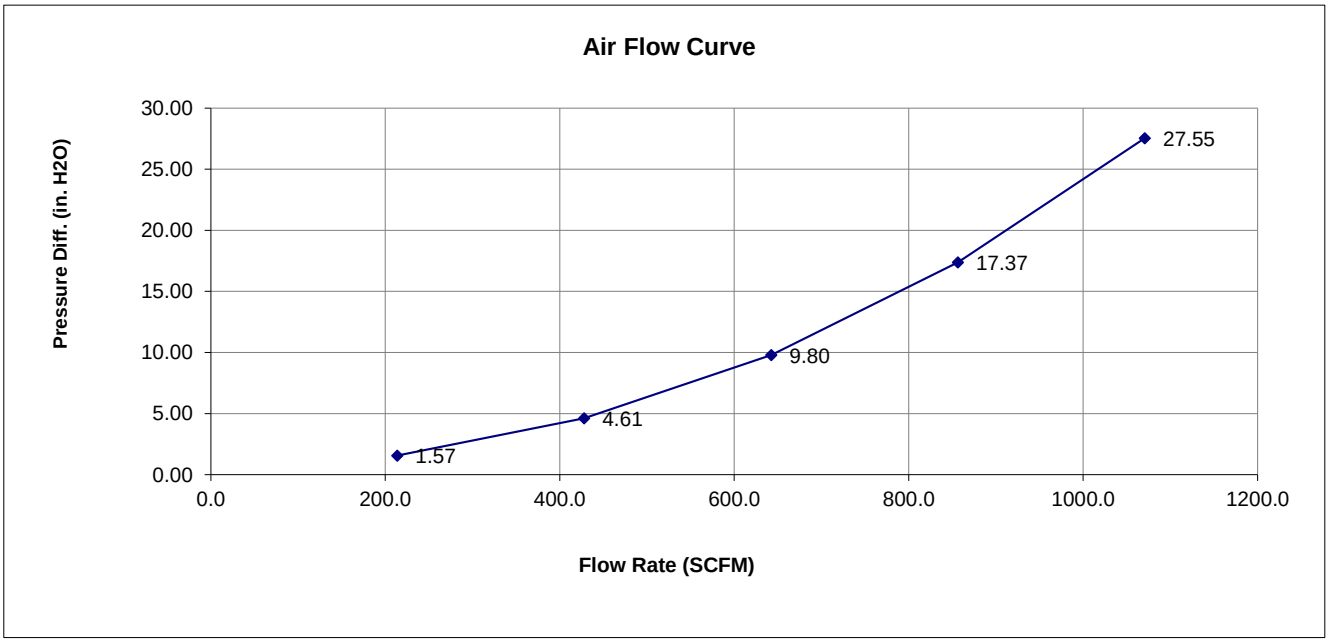
Test #: **837-06R**
Sample #: 06R
Filter #: KF-1080
Housing #:
Date Code: 44460

DC
9/21/2021

Test Description: 75-5132 KF-1080 PLUG ON RESTRICTION

Test Conditions

Barometric Pressure:	28.97936 in. Hg	**Relative Humidity:**	43 %
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
214	1.57
428	4.61
642	9.80
856	17.37
1071	27.55

Air Filter Restriction Test Report

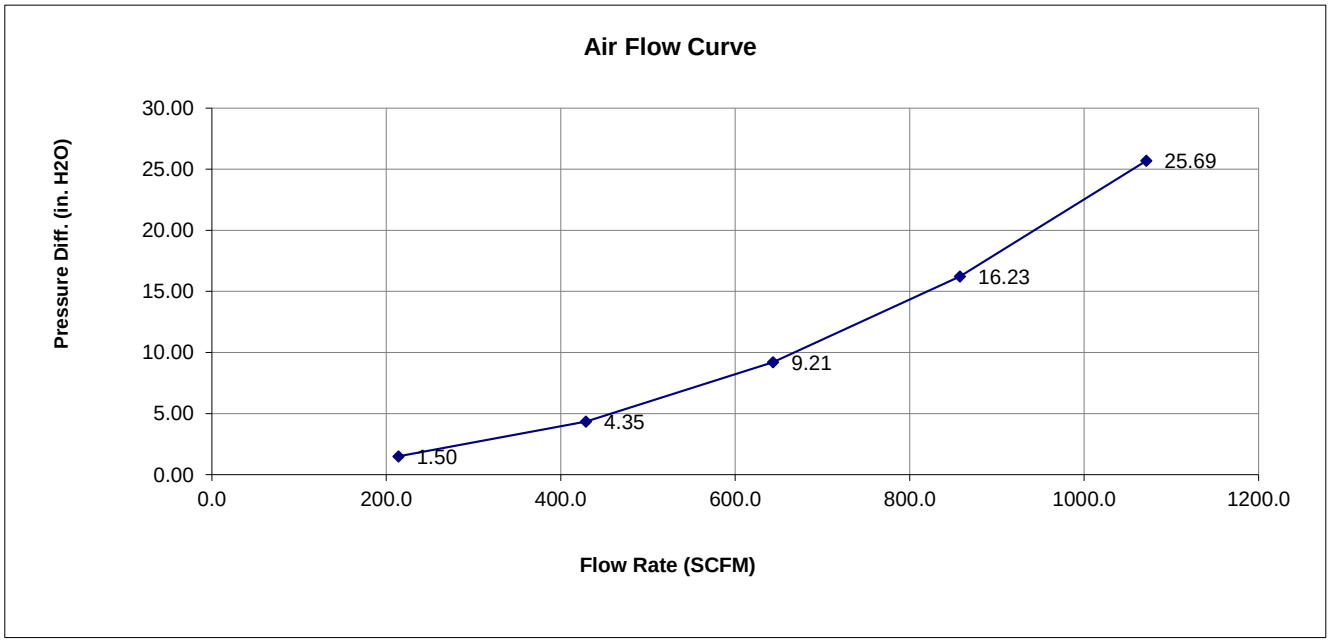
Test #: **837-07R**
Sample #: 07R
Filter #: KF-1080
Housing #:
Date Code: 44460

DC
9/21/2021

Test Description: 75-5132 KF-1080 PLUG OFF RESTRICTION

Test Conditions

Barometric Pressure:	28.97303 in. Hg	**Relative Humidity:**	38 %
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
214	1.50
429	4.35
643	9.21
858	16.23
1071	25.69

Air Filter Full Life Efficiency Test Report

Test #: 837-08CE
Sample #: 08CE
Filter #:
Housing #:
Date Code: 44460

Operator: DC
Report Date: 9/21/2021
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5132 CUMMINS KF-1080 CAPACITY AND EFFICIENCY 6.7L

Test Conditions

Barometric Pressure:	28.900 in. Hg	**Relative Humidity:**	28 %
Air Flow Setpoint:	1073 SCFM	**Type of Dust:**	Ξ TEST DUST
Test Procedure:	CE	**Batch #:**	14057C
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:**	30.38 g/min
Flow Direction:		**Pleat Depth:**	in.

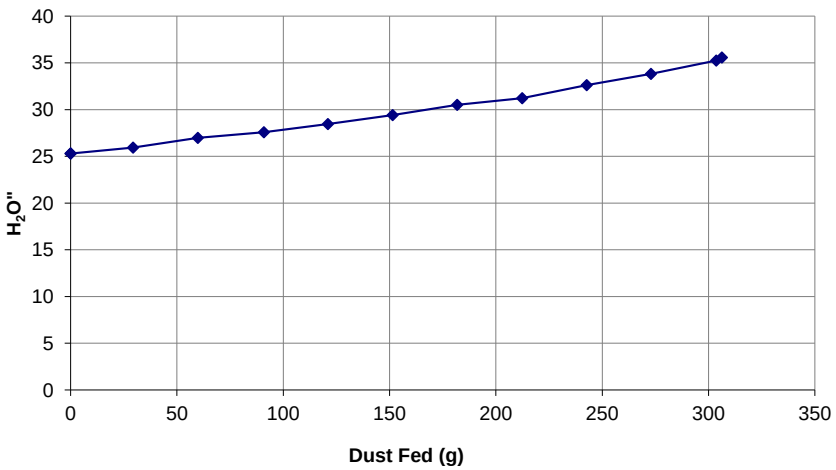
Test Results

Initial Delta P 25.15 in. H2O

Accumulative Capacity: 295.90 g
Test Time: 10.11 min

	Initial		Accumulative	
		Blanket		Blanket
Start			8620.80	581.34
End			8916.70	581.68
Gain			295.90	0.34
Efficiency			99.89%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	25.295
29.427	25.946
59.775	26.97
90.887	27.586
121.01	28.453
151.475	29.416
181.757	30.498
212.345	31.228
242.719	32.615
272.883	33.825
303.616	35.239
306.242	35.575