



**Automotive & Powersports  
THE FACTS ABOUT  
YOUR INTAKE & AIR**

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

**Part Number:** 75-5102, 75-5102D  
**Description:** Performance Intake Kit & Filter  
**Vehicle Applications:** 2004-2005 Chevy / GMC Duramax LLY 6.6L

**Test Date:** 02/08/17  
**Test Report #:** 1, 4, 5, 6, 7, 8, 9, 10

**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 43.69% 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 @ 612 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	43.69%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	40.74%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	41.33%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	38.30%

**TEST CONDITIONS**

Barometric Pressure	28.98
Airflow Setpoint	612 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13099C
Dust Feed Rate (grams/minute)	17.33

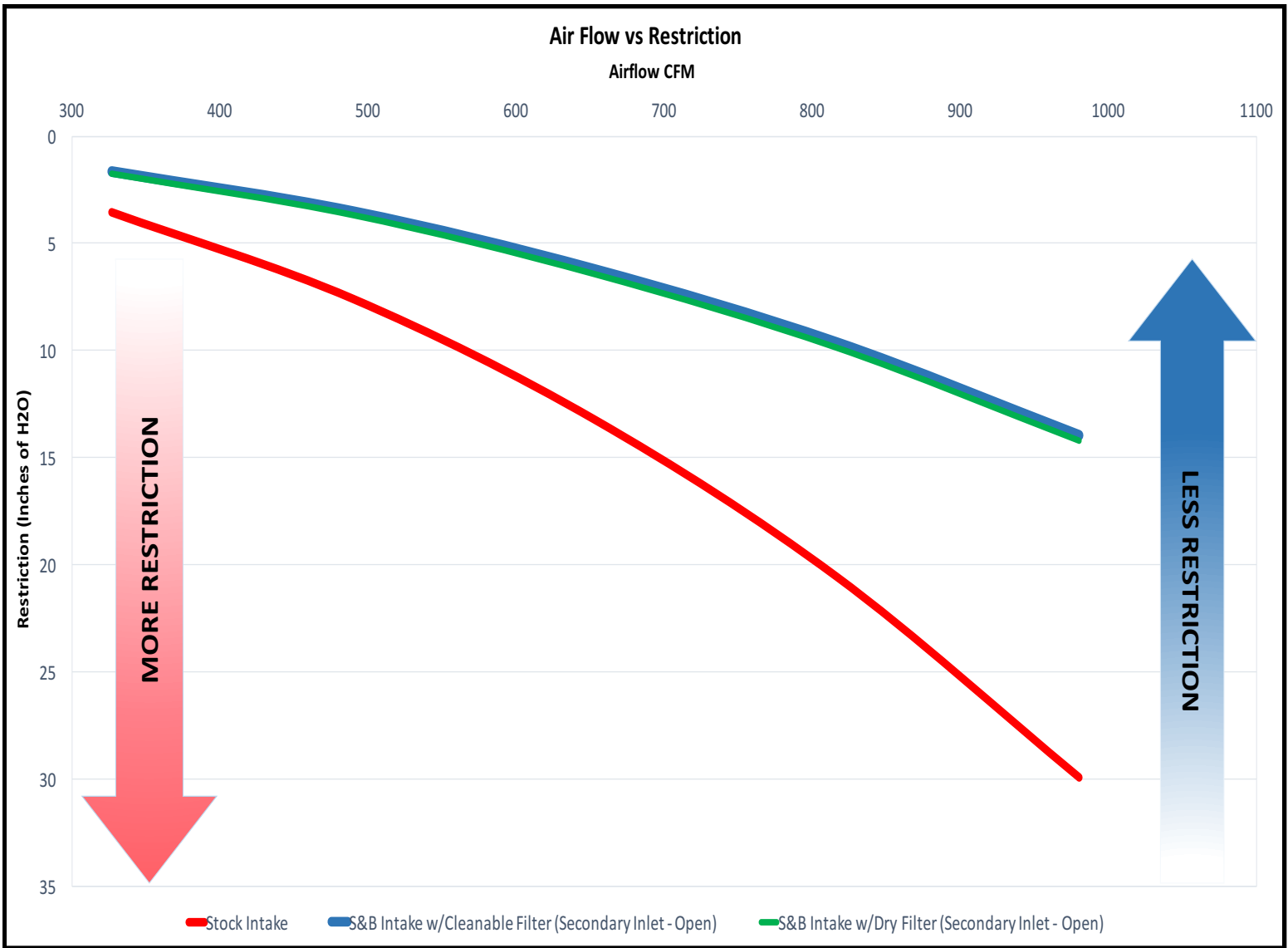
**FACT: S&B Protects Your Engine**

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 @ 612 cfm)
Stock	99.16%
S&B Intake w/ Cleanable Filter	99.52%
S&B Intake w/ Dry Filter	99.78%

**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 #: 436  
Sample #: 1  
Filter #: A1618C  
Housing #:  
Date Code:

Operator: SD  
Report Date: 2/8/2017  
Filter Mfg.:  
Housing Mfg.:



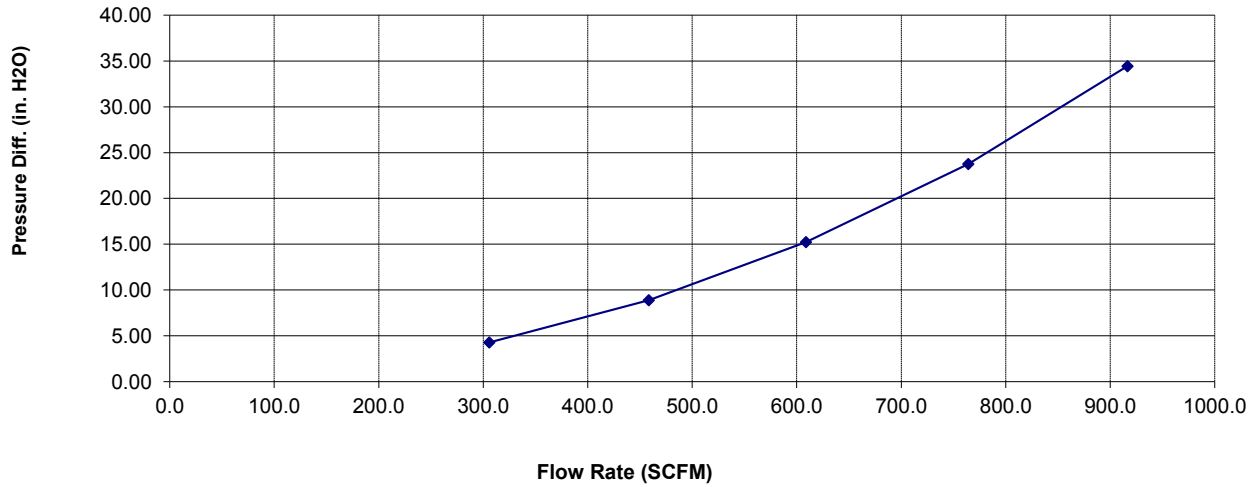
Test Description: STOCK INTAKE AND FILTER, NO SENSORS, NO FILTER MINDER, ACDELCO A1618C

## Test Conditions

Barometric Pressure: 28.99944 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 46 %  
Temperature: 70 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
306	4.28
459	8.89
609	15.22
764	23.76
917	34.44

# Air Filter Restriction Test Report

Test #: 436  
Sample #: 5  
Filter #: KF-1035  
Housing #: 75-5102  
Date Code:

Operator: SD  
Report Date: 2/8/2017  
Filter Mfg.:  
Housing Mfg.:



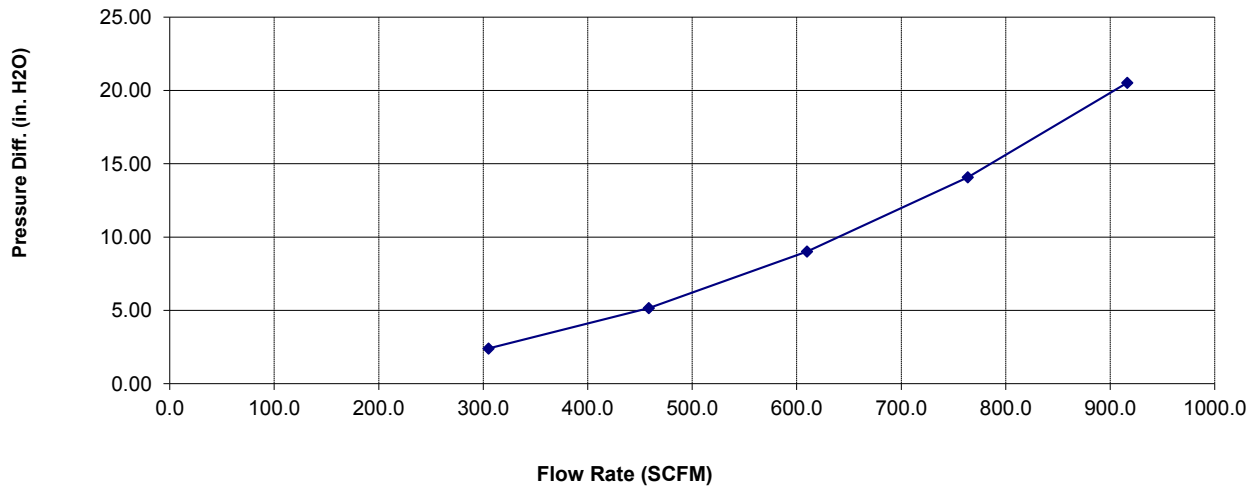
Test Description: 75-5102 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED  
PLUG INSTALLED, KF-1035

## Test Conditions

Barometric Pressure: 28.97288 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 49 %  
Temperature: 68 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
305	2.40
459	5.16
610	9.02
764	14.08
916	20.53

# Air Filter Restriction Test Report

Test #: 436  
Sample #: 6  
Filter #: KF-1035  
Housing #: 75-5101  
Date Code:

Operator: SD  
Report Date: 2/8/2017  
Filter Mfg.:  
Housing Mfg.:



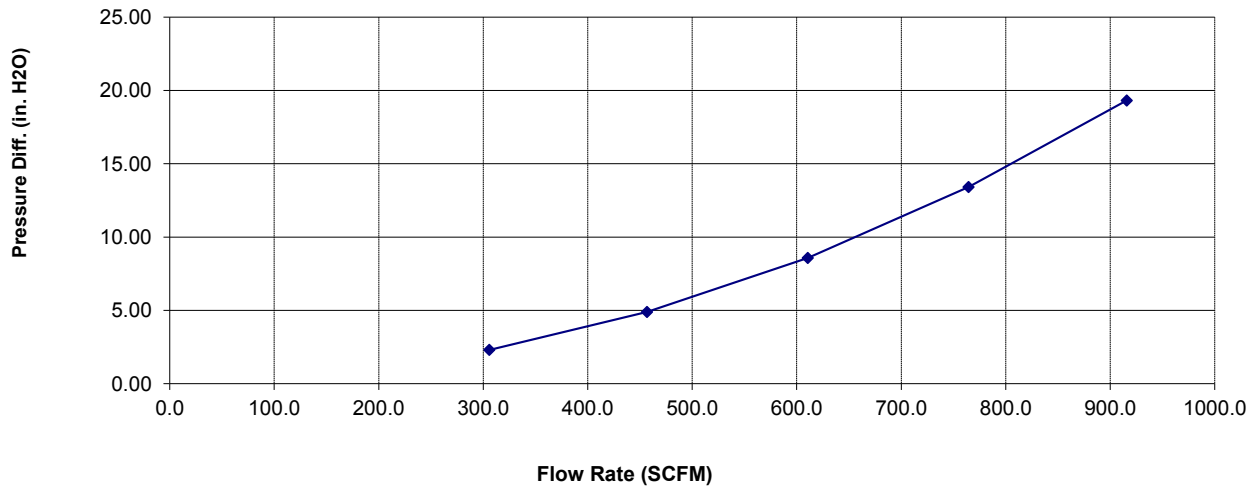
Test Description: 75-5102 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED  
PLUG REMOVED, KF-1035

## Test Conditions

Barometric Pressure: 28.96473 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 49 %  
Temperature: 68 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
306	2.30
457	4.90
611	8.57
764	13.42
916	19.32

# Air Filter Restriction Test Report

Test #: 436  
Sample #: 7  
Filter #: KF-1035D  
Housing #: 75-5102  
Date Code:

Operator: SD  
Report Date: 2/8/2017  
Filter Mfg.:  
Housing Mfg.:



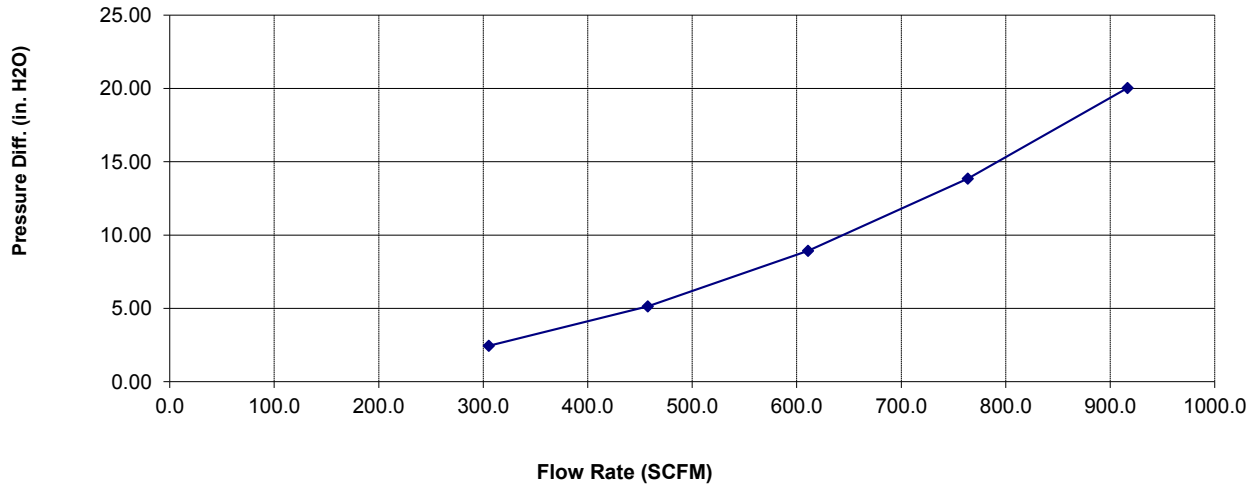
Test Description: 75-5102 PRODUCTION KIT, NO SENSORS, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED  
PLUG REMOVED, KF-1035D

## Test Conditions

Barometric Pressure: 28.97173 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 49 %  
Temperature: 68 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
305	2.45
458	5.14
611	8.93
764	13.85
917	20.04

# Air Filter Restriction Test Report

Test #: 436  
Sample #: 8  
Filter #: KF-1035D  
Housing #: 75-5102  
Date Code:

Operator: SD  
Report Date: 2/8/2017  
Filter Mfg.:  
Housing Mfg.:



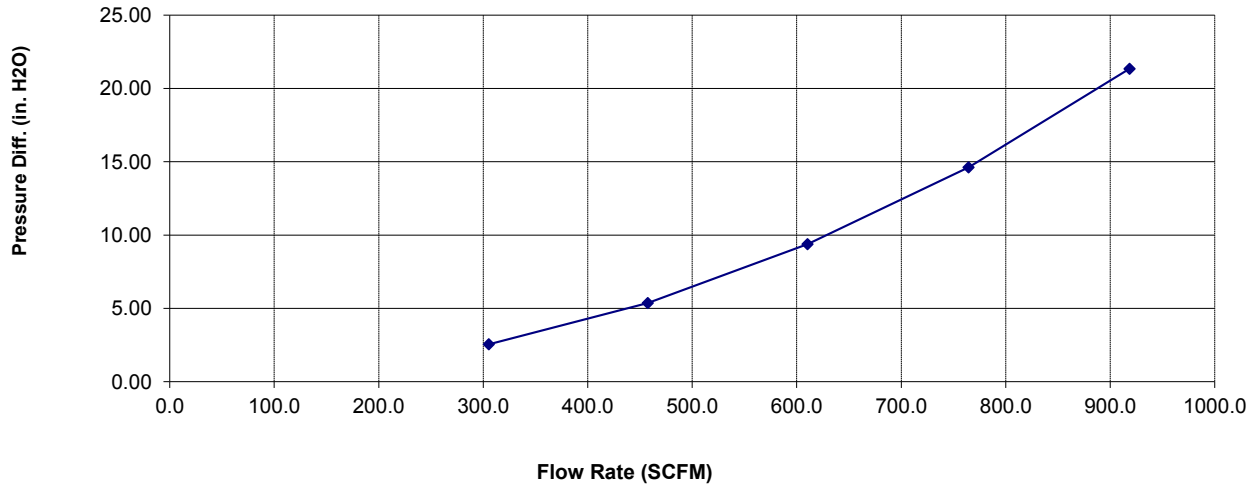
Test Description: 75-5102 PRODUCTION KIT, NO SENSOR, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED  
PLUG INSTALLED, KF-1035D

## Test Conditions

Barometric Pressure: 28.96577 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 49 %  
Temperature: 68 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
305	2.55
457	5.37
610	9.39
764	14.61
919	21.35

# Air Filter Full Life Efficiency Test Report

**Test #:** 436  
**Sample #:** 4  
**Filter #:** A1618C  
**Housing #:**  
**Date Code:**

**Operator:** SD  
**Report Date:** 2/8/2017  
**Filter Mfg.:**  
**Housing Mfg.:**



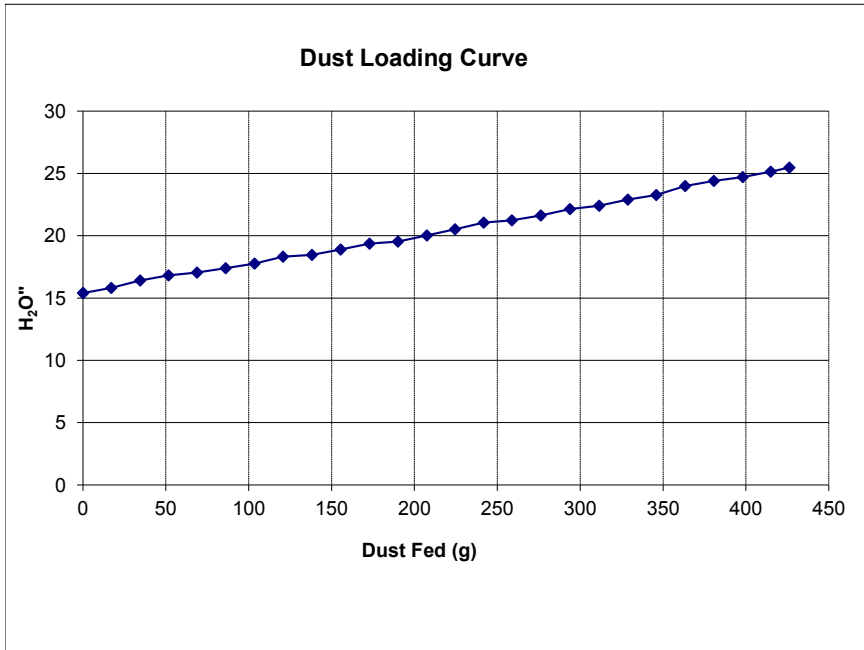
**Test Description:** STOCK INTAKE AND FILTER, NO SENSORS, NO FILTER MINDER, ACDELCO A1618C

Test Conditions			
<b>Barometric Pressure:</b>	28.985 in. Hg	<b>Relative Humidity:</b>	49 %
<b>Air Flow Setpoint:</b>	612 SCFM	<b>Type of Dust:</b>	A4 COARSE
<b>Test Procedure:</b>		<b>Batch #:</b>	13228C
<b>Air Flow Type:</b>	SCFM	<b>Temperature:</b>	68 deg. F
<b>Test Endpoint:</b>	10 in. H2O	<b>Initial Add Rate:</b>	NaN g/min
<b>Number of Pleats:</b>		<b>Accumulative Add Rate:</b>	17.33 g/min
<b>Flow Direction:</b>		<b>Pleat Depth:</b>	in.

Test Results			
<b>Initial Delta P</b>	15.29 in. H2O	<b>Accumulative Capacity:</b>	425.00 g
		<b>Test Time:</b>	24.64 min

	Initial		Accumulative	
		Blanket		Blanket
Start			3202.90	139.89
End			3627.90	143.47
Gain			425.00	3.58
Efficiency			99.16%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	15.402
16.982	15.82
34.482	16.411
51.595	16.812
68.736	17.038
86.164	17.393
103.612	17.765
120.659	18.316
138.07	18.47
155.375	18.9
172.828	19.361
190.112	19.529
207.526	20.016
224.483	20.516
241.792	21.057
258.722	21.235
276.197	21.622
293.857	22.146
311.512	22.403
328.705	22.904
345.865	23.271
363.395	23.995
380.686	24.394
398.043	24.705





# Air Filter Full Life Efficiency Test Report

**Test #:** 436  
**Sample #:** 10  
**Filter #:** KF-1035  
**Housing #:** 75-5102  
**Date Code:**

**Operator:** SD  
**Report Date:** 2/8/2017  
**Filter Mfg.:**  
**Housing Mfg.:**



**Test Description:** 75-5102 PRODUCTION KIT, NO SENSOR, NO FILTER MINDER, LID INSTALLED, FENDER SEAL INSTALLED PLUG INSTALLED, KF-1035

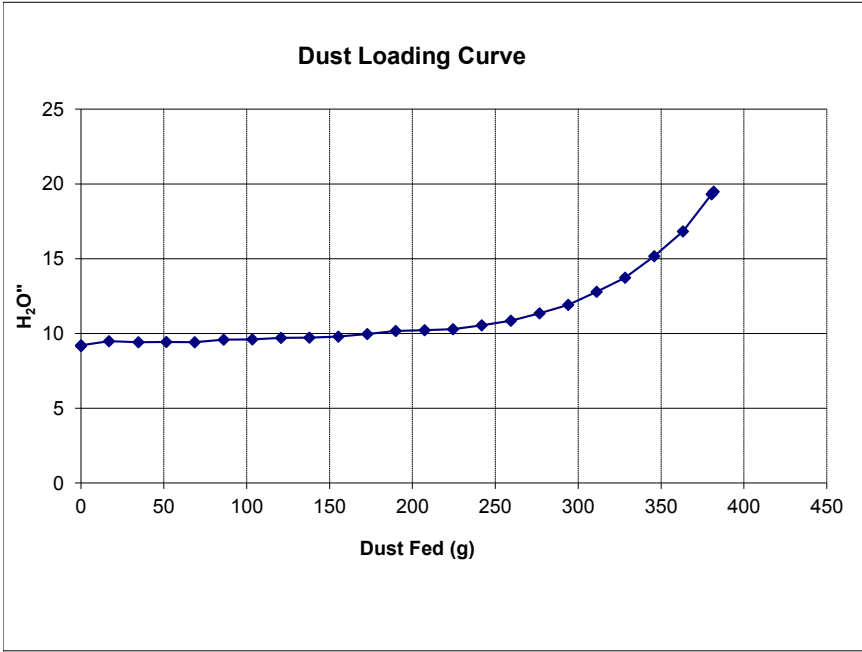
Test Conditions			
<b>Barometric Pressure:</b>	28.958 in. Hg	<b>Relative Humidity:</b>	49 %
<b>Air Flow Setpoint:</b>	612 SCFM	<b>Type of Dust:</b>	A4 COARSE
<b>Test Procedure:</b>		<b>Batch #:</b>	13228C
<b>Air Flow Type:</b>	SCFM	<b>Temperature:</b>	68 deg. F
<b>Test Endpoint:</b>	10 in. H2O	<b>Initial Add Rate:</b>	NaN g/min
<b>Number of Pleats:</b>		<b>Accumulative Add Rate:</b>	17.33 g/min
<b>Flow Direction:</b>		<b>Pleat Depth:</b>	in.

Test Results			
<b>Initial Delta P</b>	9.16 in. H2O	<b>Accumulative Capacity:</b>	377.20 g
		<b>Test Time:</b>	22.09 min

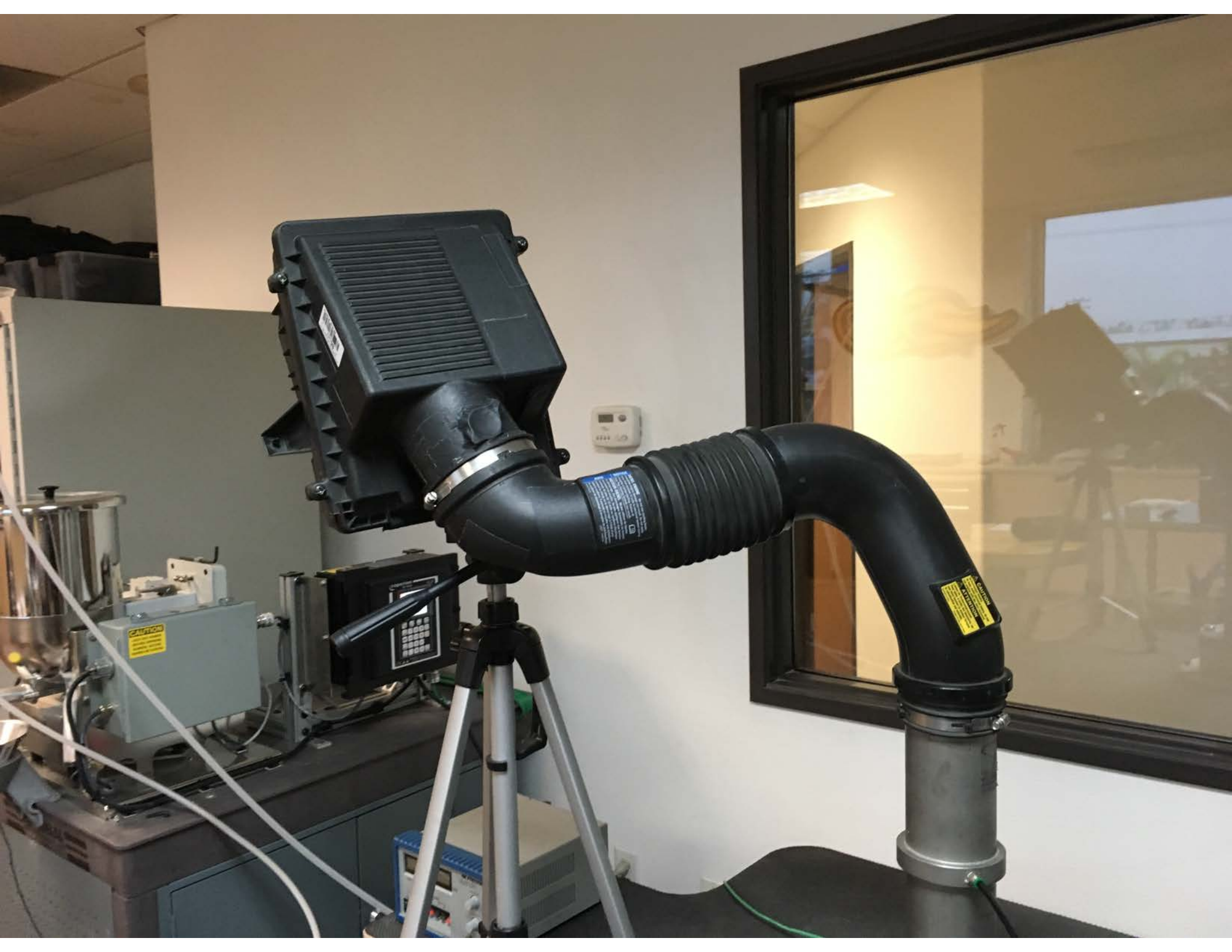
  

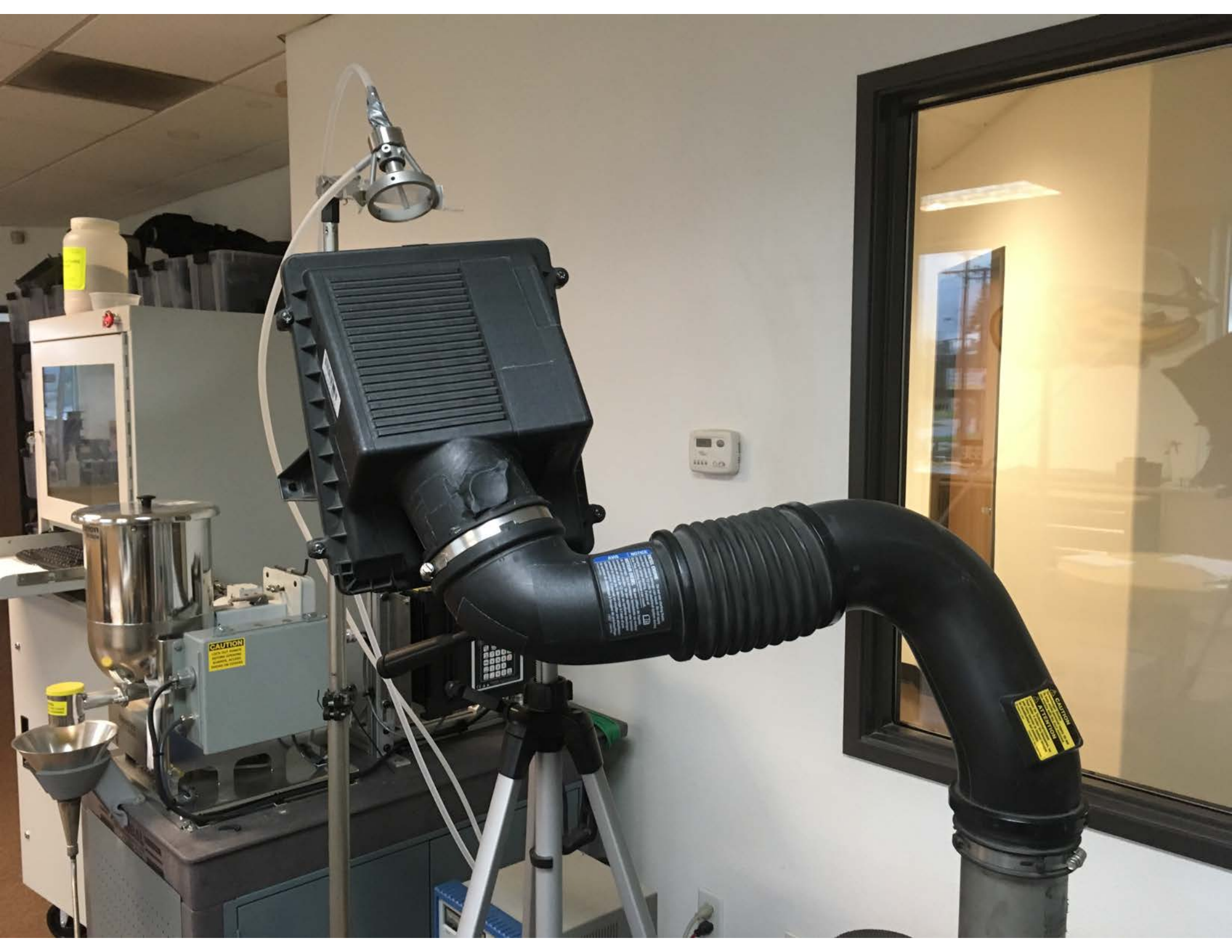
	Initial		Accumulative	
		Blanket		Blanket
Start			4635.80	144.15
End			5013.00	145.95
Gain			377.20	1.80
Efficiency			99.52%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	9.207
16.932	9.483
34.594	9.42
51.526	9.428
68.604	9.407
86.148	9.576
103.315	9.606
120.679	9.697
137.906	9.718
155.312	9.796
172.73	9.956
189.956	10.16
207.313	10.214
224.43	10.292
241.805	10.549
259.339	10.842
276.752	11.338
294.021	11.908
311.185	12.788
328.335	13.718
345.909	15.162
363.241	16.828
380.484	19.301
381.772	19.473





**CAUTION**  
Do not touch the  
rotating parts  
of the machine  
while it is running.

**CAUTION**  
ATTENTION

6.6L DSL

