



Automotive & Powersports

# THE FACTS ABOUT YOUR INTAKE & AIR FILTER

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

<b>Part Number:</b>	<b>Test Date:</b>
<b>Description:</b>	<b>Test Report #:</b>
<b>Vehicle Applications:</b>	

## 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><b>FACT: S&amp;B Flows _____ Better than Stock.</b>          In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&amp;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><b>WATCH OUT: Some competitors overstate airflow.</b>          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><b>FACT: S&amp;B Protects Your Engine</b>          S&amp;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&amp;B Intake w/ Cleanable Filter</td> <td></td> </tr> <tr> <td>S&amp;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><b>WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers</b>          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 #: 874-01R  
Sample #: 01R  
Filter #: Stock OEM  
Housing #:  
Date Code: 44825

CV  
9/21/2022



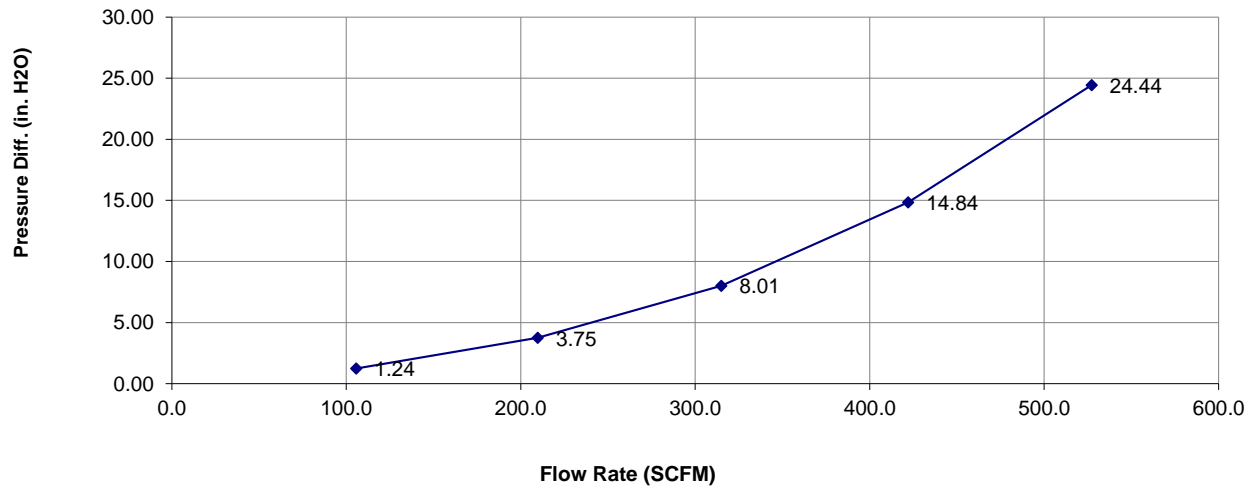
Test Description: 75-5134 Ford Ranger Ecoboost/ OEM Airbox and Filter/ Restriction

## Test Conditions

Barometric Pressure: 28.84635 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 52 %  
Temperature: 71 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
106	1.24
210	3.75
315	8.01
422	14.84
527	24.44

# Air Filter Restriction Test Report

Test #: 874-02R  
Sample #: 02R  
Filter #: KF-1073  
Housing #:  
Date Code: 44825

CV  
9/21/2022



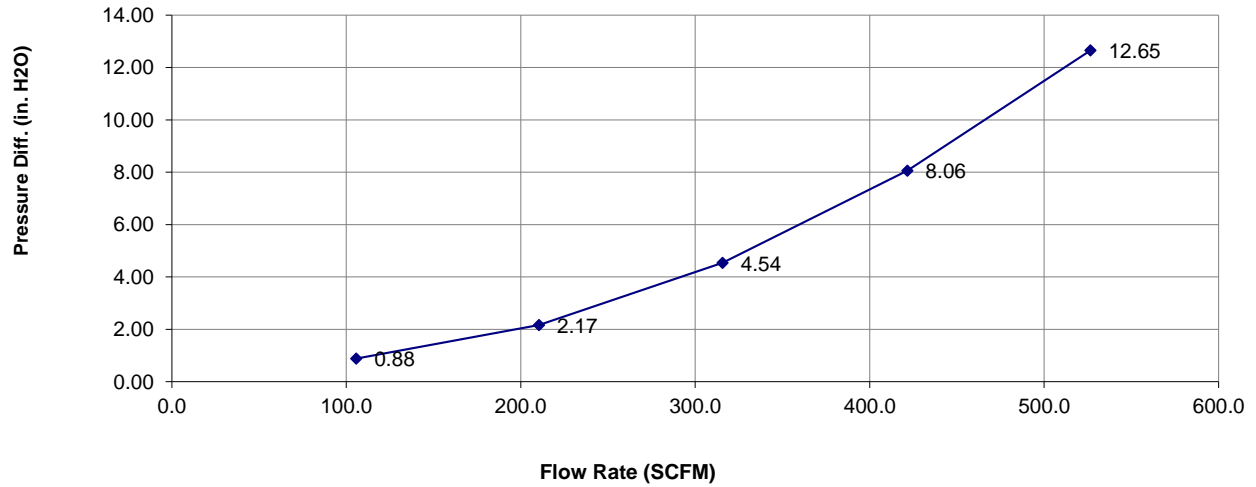
Test Description: 75-5134 Ford Ranger/ KF-1073 No Plug/ Restriction

## Test Conditions

Barometric Pressure: 28.82867 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 48 %  
Temperature: 70 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
106	0.88
210	2.17
316	4.54
422	8.06
527	12.65

# Air Filter Restriction Test Report

Test #: 874-03R  
Sample #: 03R  
Filter #: KF-1073  
Housing #:  
Date Code: 44825

CV  
9/21/2022



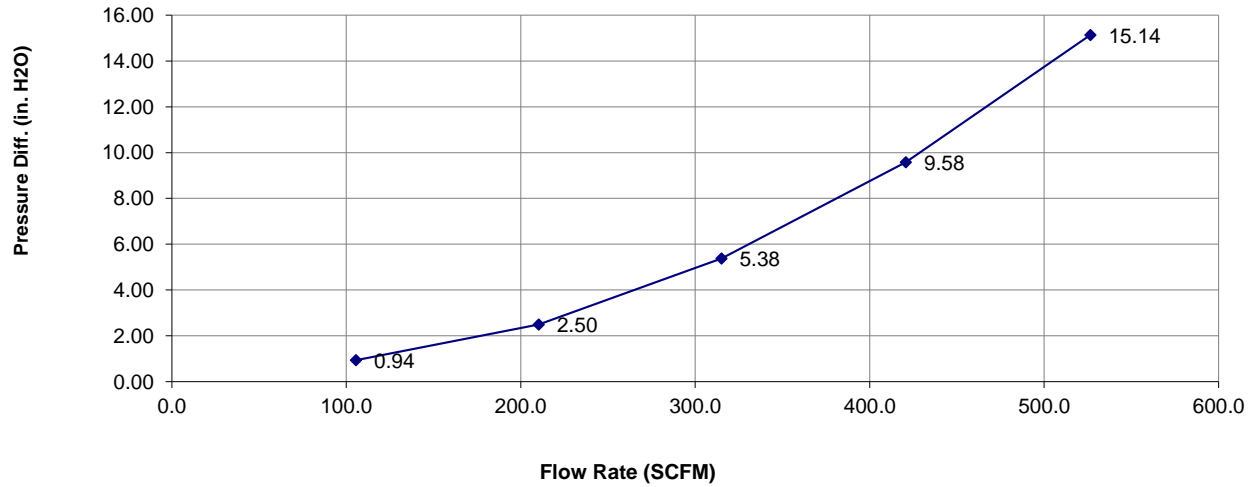
Test Description: 75-5134 Ford Ranger/ KF-1073 With Plug/ Restriction

## Test Conditions

Barometric Pressure: 28.80378 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 53 %  
Temperature: 69 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
106	0.94
210	2.50
315	5.38
421	9.58
527	15.14

# Air Filter Restriction Test Report

Test #: 874-05R  
Sample #: 05R  
Filter #: KF-1073D  
Housing #:  
Date Code: 44825

CV  
9/21/2022



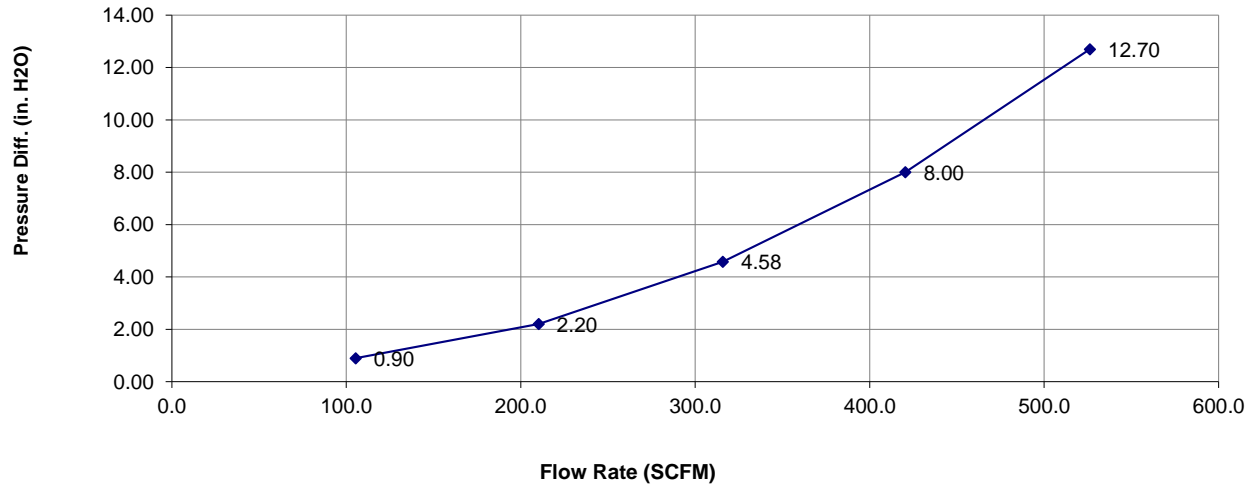
Test Description: 75-5134 Ford Ranger/ KF-1073D No Plug/ Restriction

## Test Conditions

Barometric Pressure: 28.78388 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 53 %  
Temperature: 70 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
105	0.90
210	2.20
316	4.58
420	8.00
526	12.70

# Air Filter Restriction Test Report

Test #: 874-04R  
Sample #: 04R  
Filter #: KF-1073D  
Housing #:  
Date Code: 44825

CV  
9/21/2022



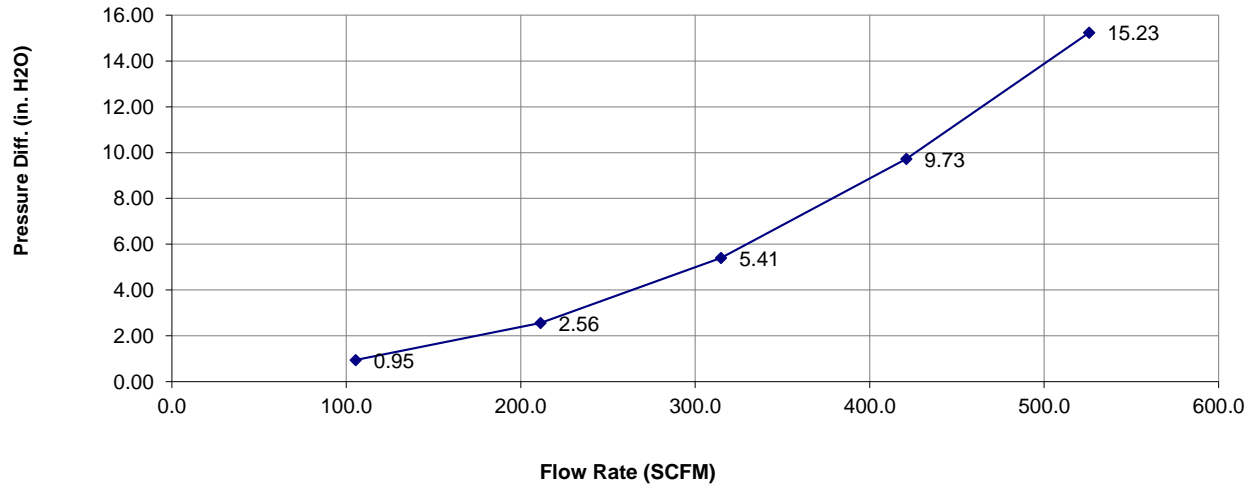
Test Description: 75-5134 Ford Ranger/ KF-1073D With Plug/ Restriction

## Test Conditions

Barometric Pressure: 28.79136 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 53 %  
Temperature: 70 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
105	0.95
211	2.56
315	5.41
421	9.73
526	15.23

# Air Filter Full Life Efficiency Test Report

**Test #:** 874-07CE  
**Sample #:** 07CE  
**Filter #:** Stock OEM  
**Housing #:**  
**Date Code:** 44825

**Operator:** CV  
**Report Date:** 9/21/2022  
**Filter Mfg.:**  
**Housing Mfg.:**

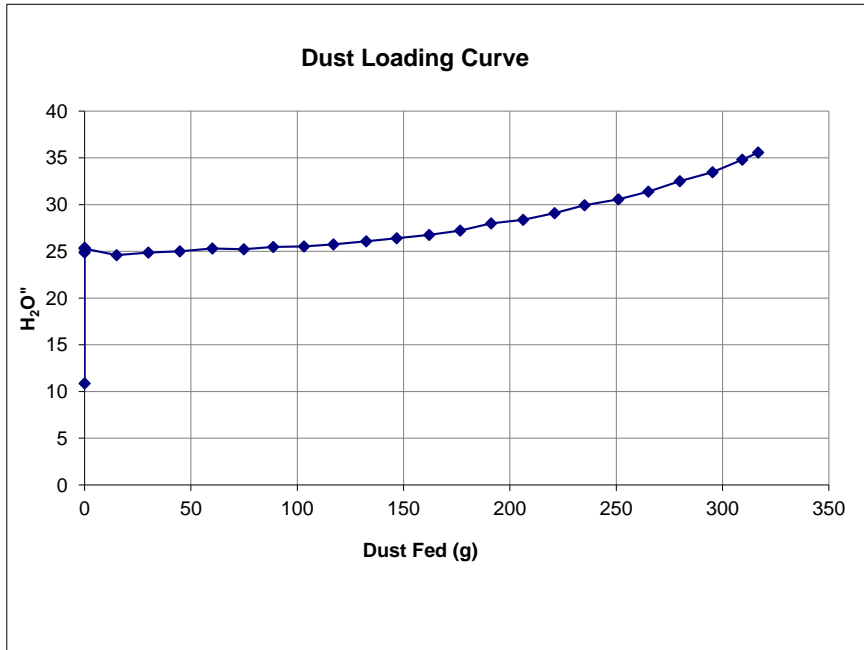


**Test Description:** 75-5134 Ford Ranger/ Stock OEM Filter and Airbox/ Capacity

Test Conditions			
<b>Barometric Pressure:</b>	28.750 in. Hg	<b>Relative Humidity:</b>	53 %
<b>Air Flow Setpoint:</b>	527 SCFM	<b>Type of Dust:</b>	
<b>Test Procedure:</b>	CE	<b>Batch #:</b>	
<b>Air Flow Type:</b>	SCFM	<b>Temperature:</b>	71 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>	14.92 g/min
<b>Flow Direction:</b>		<b>Pleat Depth:</b>	in.

Test Results																																
<b>Initial Delta P</b>	2.53 in. H2O	<b>Accumulative Capacity:</b>	319.80 g																													
		<b>Test Time:</b>	21.55 min																													
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Initial</th> <th colspan="2">Accumulative</th> </tr> <tr> <th></th> <th>Blanket</th> <th></th> <th>Blanket</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td></td> <td></td> <td>2993.80</td> <td>571.60</td> </tr> <tr> <td>End</td> <td></td> <td></td> <td>3313.60</td> <td>572.10</td> </tr> <tr> <td>Gain</td> <td></td> <td></td> <td>319.80</td> <td>0.50</td> </tr> <tr> <td>Efficiency</td> <td></td> <td></td> <td colspan="2" style="text-align: center;">99.84%</td> </tr> </tbody> </table>			Initial		Accumulative			Blanket		Blanket	Start			2993.80	571.60	End			3313.60	572.10	Gain			319.80	0.50	Efficiency			99.84%	
	Initial		Accumulative																													
		Blanket		Blanket																												
Start			2993.80	571.60																												
End			3313.60	572.10																												
Gain			319.80	0.50																												
Efficiency			99.84%																													

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	24.856
0	25.311
0	25.388
0.158	25.289
14.988	24.589
30.028	24.862
44.732	24.996
60.043	25.316
74.921	25.209
88.75	25.455
103.162	25.526
116.968	25.753
132.47	26.079
146.767	26.404
162.037	26.763
176.662	27.211
191.203	27.994
206.218	28.367
221.034	29.079
235.134	29.942
251.044	30.55
265.151	31.395
279.916	32.503
295.365	33.477

# Air Filter Full Life Efficiency Test Report

**Test #:** 874-08CE  
**Sample #:** 08CE  
**Filter #:** KF-1073  
**Housing #:**  
**Date Code:** 44825

**Operator:** CV  
**Report Date:** 9/21/2022  
**Filter Mfg.:**  
**Housing Mfg.:**



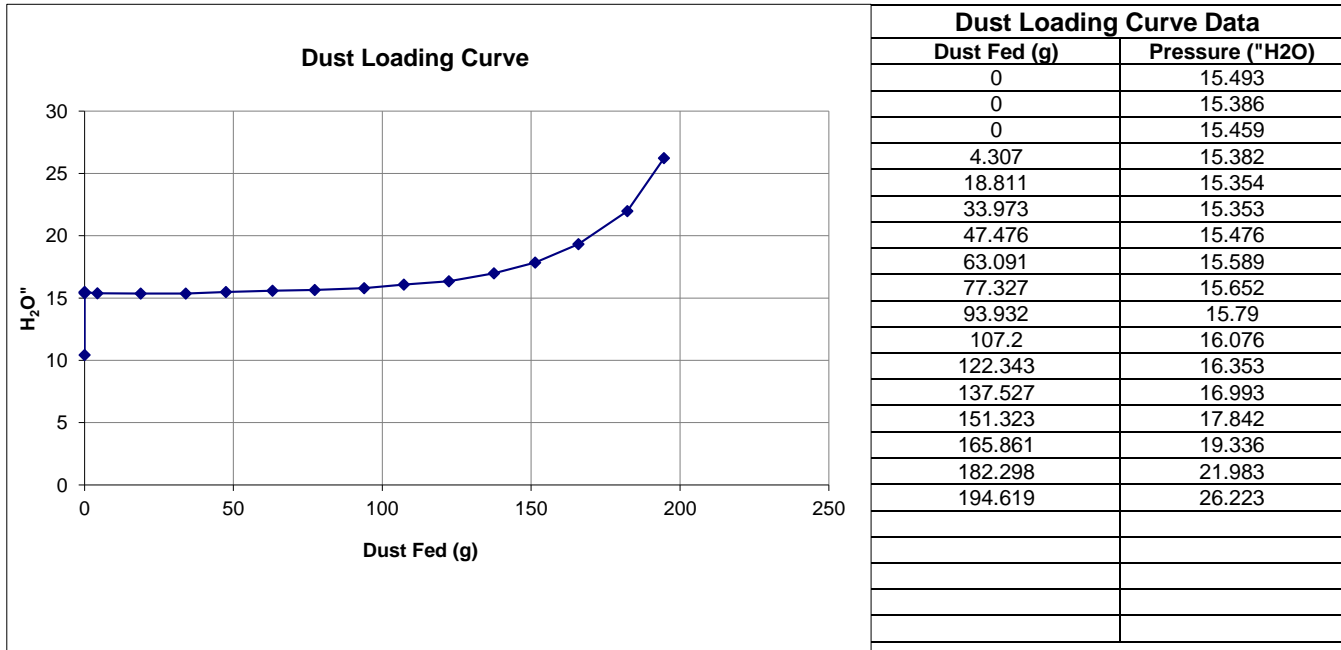
**Test Description:** 75-5134 Ford Ranger/ KF-1073/ Capacity

Test Conditions			
<b>Barometric Pressure:</b>	28.752 in. Hg	<b>Relative Humidity:</b>	54 %
<b>Air Flow Setpoint:</b>	527 SCFM	<b>Type of Dust:</b>	
<b>Test Procedure:</b>	CE	<b>Batch #:</b>	
<b>Air Flow Type:</b>	SCFM	<b>Temperature:</b>	71 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>	14.92 g/min
<b>Flow Direction:</b>		<b>Pleat Depth:</b>	in.

Test Results			
<b>Initial Delta P</b>	2.23 in. H2O	<b>Accumulative Capacity:</b>	205.00 g
		<b>Test Time:</b>	13.33 min

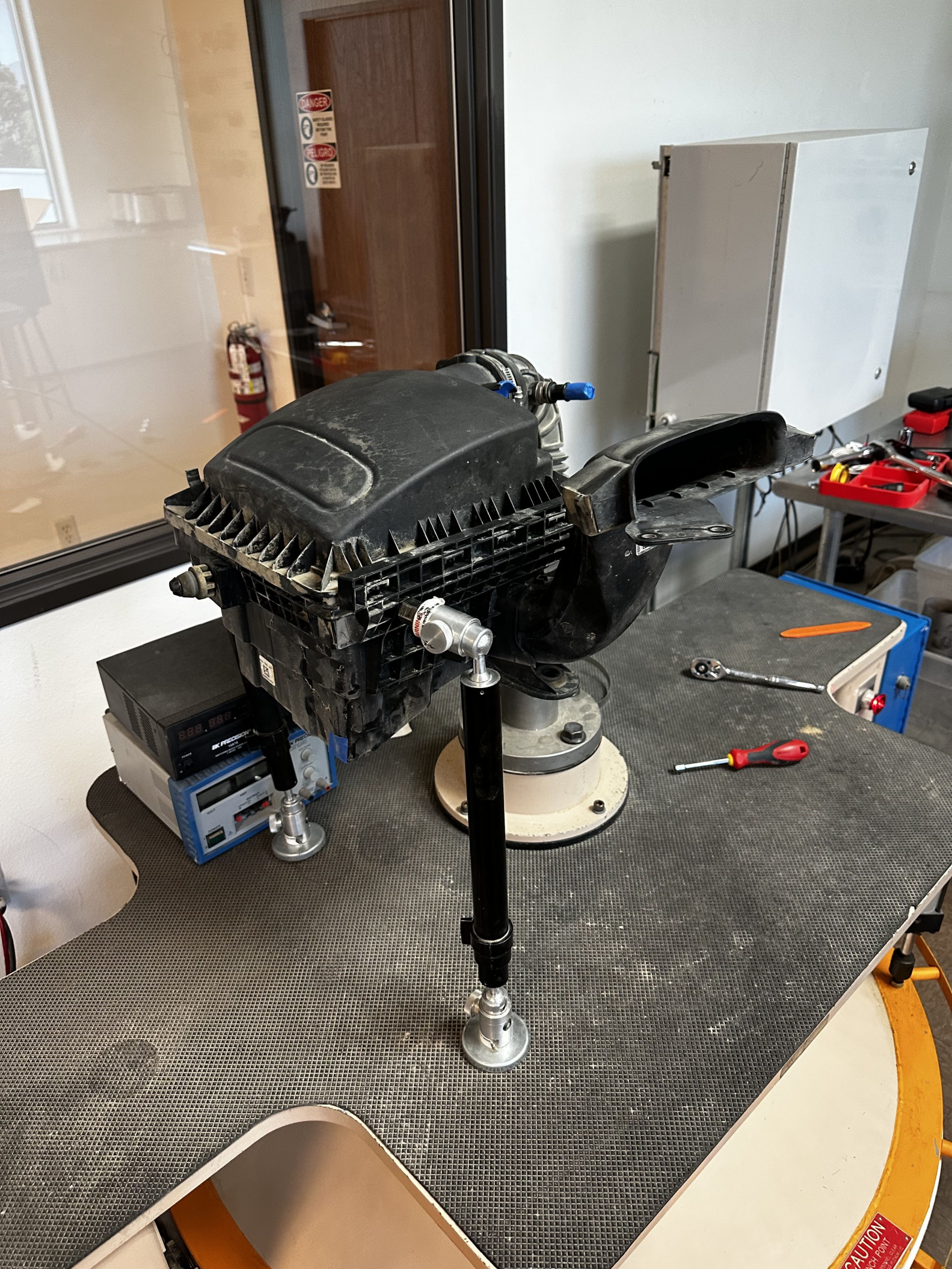
	Initial	Accumulative	
		Blanket	Blanket
Start			
End		4889.90	572.10
		5094.90	573.49
Gain		205.00	1.39
Efficiency		99.33%	

- Standard Restriction  
 Pressure Differential









**DANGER**  
DO NOT OPERATE  
WITHOUT PROPER  
TRAINING  
**PELIGRO**

**CAUTION**  
Stick Point



CAUTION  
PICK-UP POINT

