



# 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										

# Air Filter Restriction Test Report

Test #: 931-01R  
Sample #: 01R  
Filter #: FA1922  
Housing #: NL3Z9600A  
Date Code: 45281

JJ  
12/22/2023



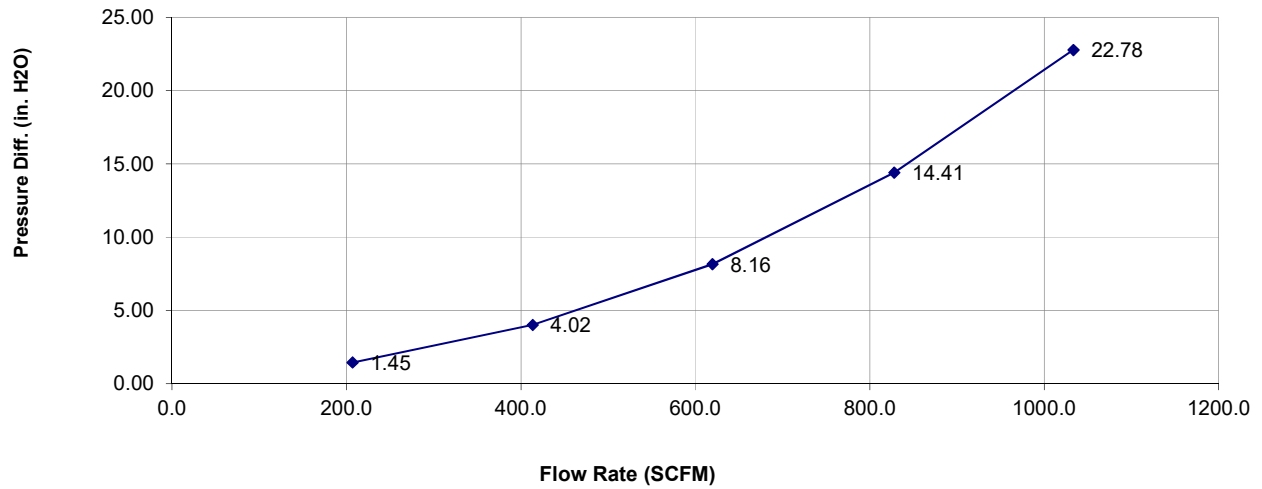
Test Description: FORD RAPTOR R OEM INTAKE, RESTRICTION TEST

## Test Conditions

Barometric Pressure: 28.87535 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>
207	1.45
413	4.02
620	8.16
828	14.41
1033	22.78



# Air Filter Restriction Test Report

Test #: 931-11R  
Sample #: 11R  
Filter #: KF-1095A  
Housing #: AL1423B-00 CLOSED  
Date Code: 45282

JJ  
12/22/2023



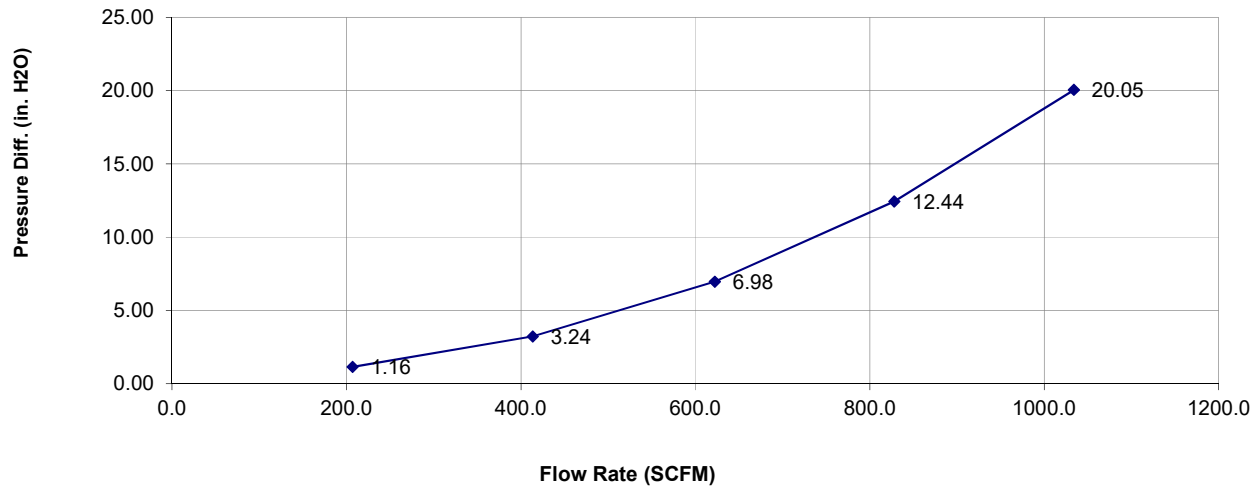
Test Description: 75-5175, KF-1095A 125 PLEAT COUNTS, OILED, CLOSED, RESTRICTION TEST

## Test Conditions

Barometric Pressure: 28.73965 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 125  
Flow Direction:

Relative Humidity: 48 %  
Temperature: 72 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
207	1.16
413	3.24
622	6.98
828	12.44
1034	20.05

# Air Filter Restriction Test Report

Test #: 931-11R  
Sample #: 11R  
Filter #: KF-1095A  
Housing #: AL1423B-00 OPEN  
Date Code: 45282

JJ  
12/22/2023



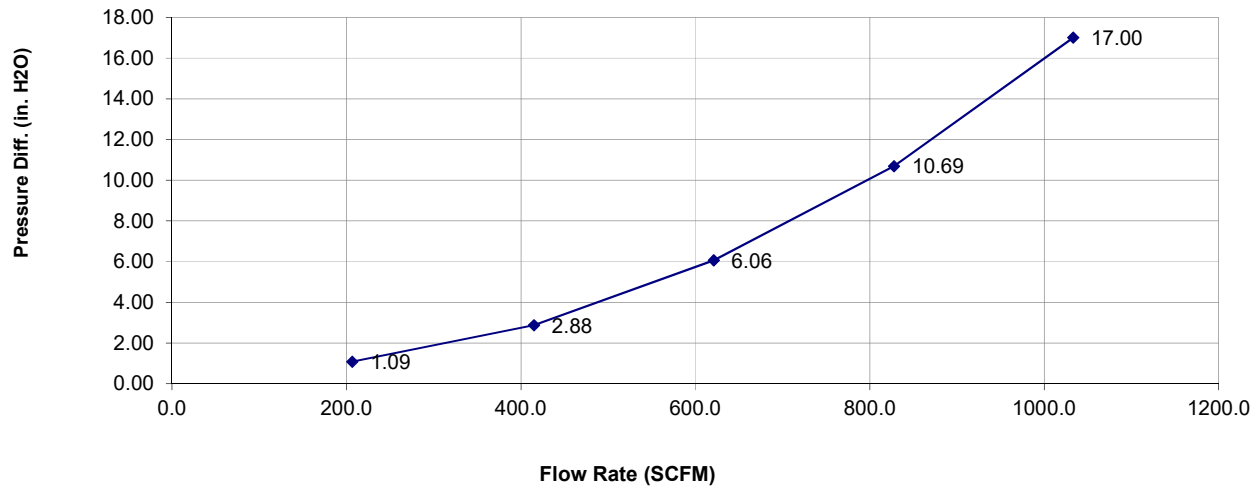
Test Description: 75-5175, KF-1095A 125 PLEAT COUNTS, OILED, OPEN, RESTRICTION TEST

## Test Conditions

Barometric Pressure: 28.73892 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 125  
Flow Direction:

Relative Humidity: 47 %  
Temperature: 72 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
207	1.09
415	2.88
621	6.06
828	10.69
1033	17.00

# Air Filter Full Life Efficiency Test Report

**Test #:** 931  
**Sample #:** 12CE  
**Filter #:** KF-1095A  
**Housing #:**  
**Date Code:** 45282

**Operator:** JJ  
**Report Date:** 12/22/2023  
**Filter Mfg.:**  
**Housing Mfg.:**

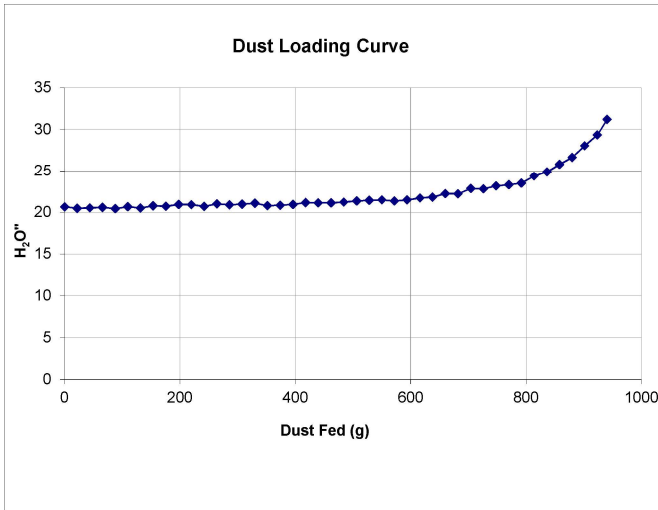


**Test Description:** 75-5175 INTAKE, KF-1095A 125 PLEAT, CAPACITY AND EFFICIENCY TEST

Test Conditions			
<b>Barometric Pressure:</b>	28.737 in. Hg	<b>Relative Humidity:</b>	47 %
<b>Air Flow Setpoint:</b>	1036 SCFM	<b>Type of Dust:</b>	A4 COARSE
<b>Test Procedure:</b>	CE	<b>Batch #:</b>	14996C
<b>Air Flow Type:</b>	SCFM	<b>Temperature:</b>	72 deg. F
<b>Test Endpoint:</b>	10 in. H2O	<b>Initial Add Rate:</b>	NaN g/min
<b>Number of Pleats:</b>	125	<b>Accumulative Add Rate:</b>	22 g/min
<b>Flow Direction:</b>		<b>Pleat Depth:</b>	1 in.

Test Results			
<b>Initial Delta P</b>	20.28 in. H2O	<b>Accumulative Capacity:</b>	912.10 g
		<b>Test Time:</b>	42.76 min
	Initial	Accumulative	
		Kit	Blanket
<b>Start</b>		8731.60	586.27
<b>End</b>		9643.70	591.82
<b>Gain</b>		912.10	5.55
<b>Efficiency</b>		99.40%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	20.677
21.888	20.466
43.617	20.54
65.712	20.592
87.682	20.459
109.44	20.68
131.658	20.526
153.748	20.782
175.573	20.729
197.597	20.94
219.645	20.928
241.916	20.713
264.13	21.016
285.926	20.897
307.916	20.985
329.722	21.099
351.566	20.813
373.726	20.864
395.774	20.941
417.714	21.163
439.513	21.151
462.165	21.141
484.098	21.239
506.24	21.376
528.197	21.443
550.279	21.489
571.939	21.368
593.951	21.499
616.117	21.729
637.966	21.837
659.906	22.265
681.988	22.227
703.903	22.881
726.063	22.825
748.113	23.201
770.078	23.344
791.852	23.519
813.914	24.375
836.232	24.904
857.966	25.841
879.873	26.673
901.553	28.076
923.742	29.371
940.473	31.228

# Air Filter Restriction Test Report

Test #: 931  
Sample #: 07R  
Filter #: KF-1095D  
Housing #: AL1423B-00 CLOSED  
Date Code: 45282

JJ  
12/22/2023



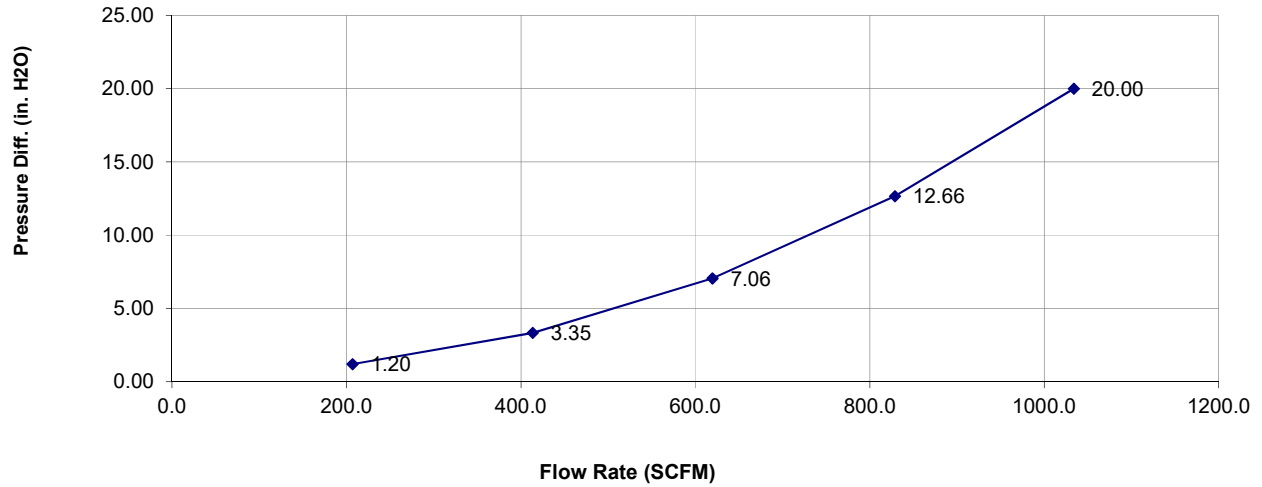
Test Description: 75-5175 INTAKE, KF-1095D 210 PLEAT COUNT, DRY MEDIA, CLOSED SYSTEM, RESTRICTIION TEST,

## Test Conditions

Barometric Pressure: 28.82031 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 210  
Flow Direction:

Relative Humidity: 50 %  
Temperature: 70 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
207	1.20
414	3.35
620	7.06
829	12.66
1034	20.00

# Air Filter Restriction Test Report

Test #: 931  
Sample #: 07R  
Filter #: KF-1095D  
Housing #: AL1423B-00 OPEN  
Date Code: 45282

JJ  
12/22/2023



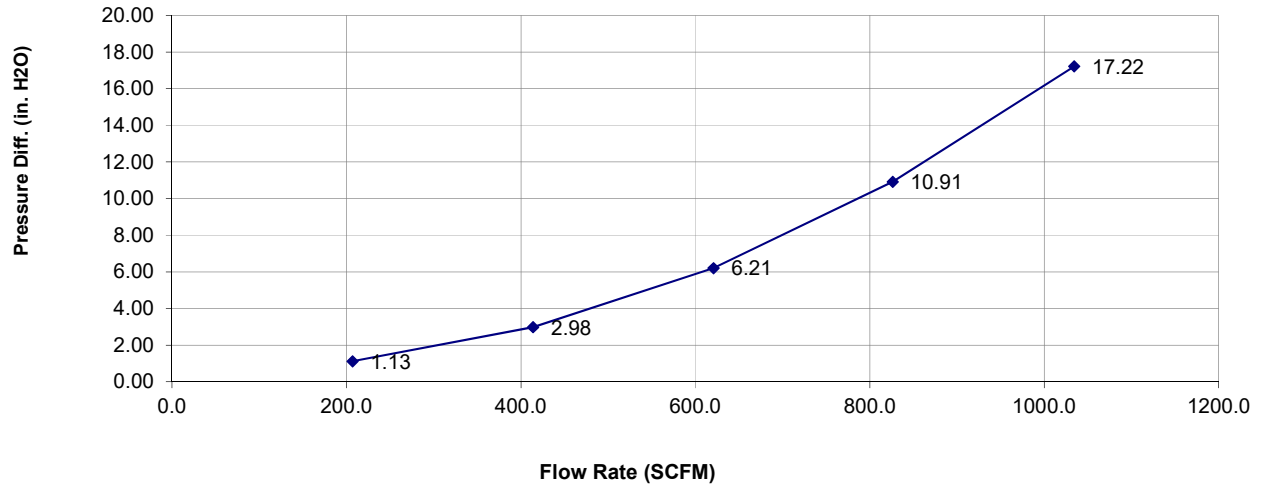
Test Description: 75-5175 INTAKE, KF-1095D 210 PLEAT COUNT, DRY MEDIA, OPEN SYSTEM, RESTRCITION TEST

## Test Conditions

Barometric Pressure: 28.82154 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 210  
Flow Direction:

Relative Humidity: 50 %  
Temperature: 70 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
207	1.13
414	2.98
621	6.21
826	10.91
1034	17.22



