

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 #:	
Veh	icle 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!

FACT: S&B Flows	_ Better than Stock.	WATCH OUT: Some competitors overstate airflo
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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.

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	Test Conditions
	Stock (tested @cfm)	Barometric Pressure
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)		Airflow Setpoint
S&B Intake w/ Cleanable Filter		Relative Humidity
(Secondary Inlet - Closed)	Temperature	
S&B Intake w/ Dry Filter	1/42	Type of Dust
(Secondary Inlet - Open		Batch #
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)		Dust Feed Rate (grams/minute)

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	(Tested @cfm
Stock	
S&B Intake w/ Cleanable Filter	
S&B Intake w/ Dry Filter	

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

Test #: 858 Sample #: 05R

Filter #: KF-1076D Housing #: 75-5158D Date Code: 44631 JK 3/11/2022

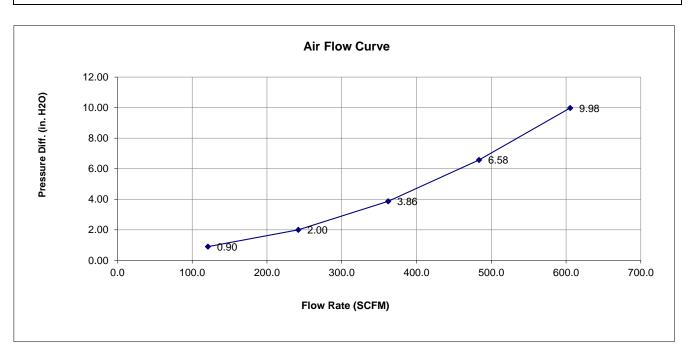


Test Description: 75-5158D RESTRICTION, NO PLUG, 606 CFM

Test Conditions

Barometric Pressure: 29.15437 in. Hg Relative Humidity: 51 %
Air Flow Type: SCFM Temperature: 69 deg. F
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
121	0.90		
242	2.00		
362	3.86		
484	6.58		
605	9.98		

Test #: 858 Sample #: 07R

Filter #: KF-1076D Housing #: 75-5158D Date Code: 44631

JK 3/11/2022



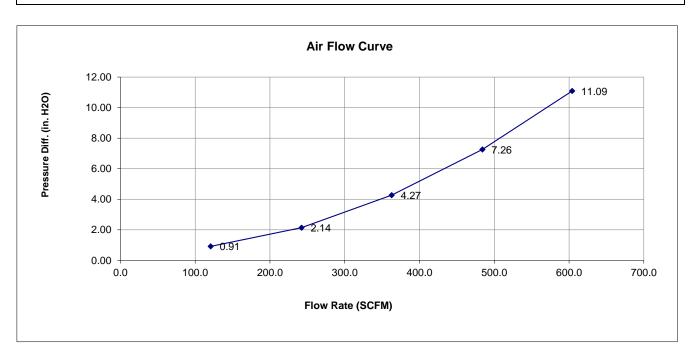
Test Description: 75-5158D RESTRICTION, WITH PLUG, NO INLET SEAL, 606 CFM

Test Conditions

Barometric Pressure: 29.11586 in. Hg Air Flow Type: SCFM Number of Pleats:

Flow Direction:

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



<u>Differential Pressure</u>		
0.91		
2.14		
4.27		
7.26		
11.09		

Air Filter Full Life Efficiency Test Report

Test #: 858 Sample #: 08CE Filter #: STOCK Housing #: Date Code: 44631

Operator: JK Report Date: 3/11/2022 Filter Mfg.: **Housing Mfg.:**



Test Description: 2020 GM 6.6L GAS, C&E, 606 CFM

Test Conditions

Barometric Pressure: 29.110 in. Hg **Relative Humidity:** 57 %

Type of Dust: 606 SCFM Air Flow Setpoint: **Test Procedure:** Batch #:

Air Flow Type: Temperature: SCFM 70 deg. F **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 17.16 g/min Flow Direction: Pleat Depth: in.

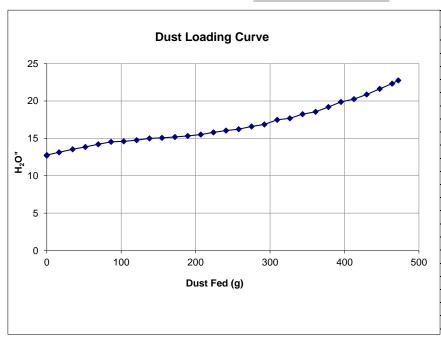
Test Results

Initial Delta P 12.38 in. H2O **Accumulative Capacity:** 460.70 g

Test Time: 27.49 min

	Initial		Accumulative	
		Blanket		Blanket
Start			4536.50	570.84
End			4997.20	574.35
Gain			460.70	3.51
Efficiency			99.24%	

Standard Restriction Pressure Differential



Dust Loading Curve Data			
Dust Fed (g)	Pressure ("H2O)		
0	12.771		
16.548	13.129		
34.708	13.54		
51.686	13.853		
69.146	14.2		
86.347	14.522		
103.334	14.598		
120.791	14.76		
137.872	14.994		
154.805	15.054		
172.132	15.183		
189.271	15.322		
206.87	15.509		
223.904	15.8		
240.753	16.039		
257.738	16.229		
275.186	16.579		
292.384	16.863		
309.646	17.479		
326.65	17.672		
343.693	18.222		
361.146	18.546		
378.344	19.192		
395.198	19.87		

Air Filter Full Life Efficiency Test Report

Test #: 858 Sample #: 09CE Filter #: KF-1076D Housing #: 75-5158D Date Code: 44631 Operator: JK Report Date: 3/11/2022 Filter Mfg.: Housing Mfg.:



Test Description: 75-5158D CE, 606 CFM

Test Conditions

Barometric Pressure: 29.102 in. Hg **Relative Humidity:** 56 %

Air Flow Setpoint: 606 SCFM Type of Dust:
Test Procedure: Batch #:

Air Flow Type: SCFM Temperature: 70 deg. F
Test Endpoint: 10 in. H2O Initial Add Rate: NaN g/min
Number of Pleats: Accumulative Add Rate: 17.16 g/min
Flow Direction: Pleat Depth: in.

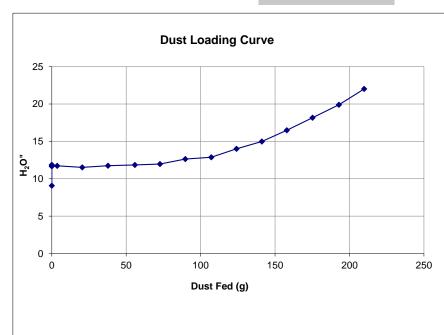
Test Results

Initial Delta P 2.12 in. H2O Accumulative Capacity: 206.30 g

Test Time: 12.27 min

	Initial	Initial Accumulative		
		Blanket		Blanket
Start			6237.90	574.37
End			6444.20	574.89
Gain			206.30	0.52
Efficiency			99.75%	

Standard RestrictionPressure Differential



Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	11.857	
0	11.676	
0	11.667	
3.573	11.725	
20.489	11.517	
37.715	11.739	
55.777	11.844	
72.627	11.955	
89.723	12.627	
107.107	12.863	
124.055	14.003	
141.134	14.973	
157.909	16.483	
175.158	18.158	
192.846	19.883	
209.835	22.004	

Test #: 858 Sample #: 11R Filter #: KF-10

Filter #: KF-1076 Housing #: 75-5158 Date Code: 44635 JK 3/15/2022

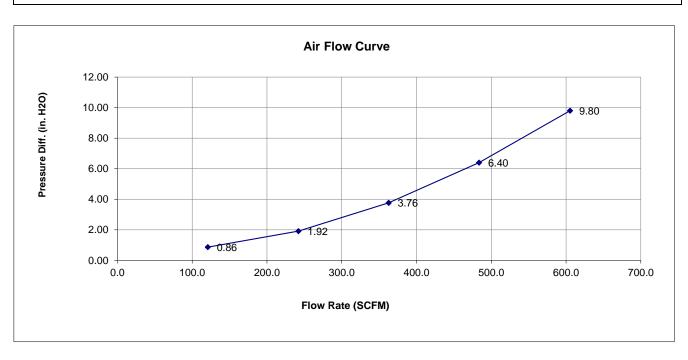


Test Description: 75-5158 RETSRICTION, NO PLUG, NO INLET SEAL, 606 CFM

Test Conditions

Barometric Pressure: 29.00964 in. Hg
Air Flow Type: SCFM
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>		
121	0.86		
242	1.92		
363	3.76		
484	6.40		
605	9.80		

Air Filter Full Life Efficiency Test Report

Test #: 858 Sample #: 12CE Filter #: KF-1076 Housing #: 75-5158 Date Code: 44635

Operator: JK Report Date: 3/15/2022 Filter Mfg.: **Housing Mfg.:**



Test Description: 75-5158 CE, 606 CFM

Test Conditions

Barometric Pressure: 28.995 in. Hg **Relative Humidity:** 47 %

Type of Dust: 606 SCFM Air Flow Setpoint: **Test Procedure:** Batch #:

Air Flow Type: Temperature: SCFM 69 deg. F **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 17.16 g/min Flow Direction: Pleat Depth: in.

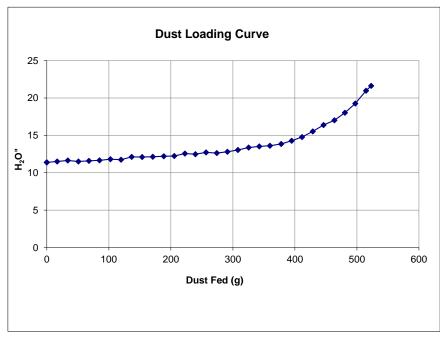
Test Results

Initial Delta P 11.05 in. H2O **Accumulative Capacity:** 514.80 g

Test Time: 30.44 min

	Initial		Accumulative)
		Blanket		Blanket
Start			6559.90	577.75
End			7074.70	582.52
Gain			514.80	4.77
Efficiency			99.08%	

Standard Restriction Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure ("H2O)
0	11.382
16.623	11.501
33.875	11.64
50.868	11.492
67.928	11.583
85.029	11.65
102.649	11.801
119.78	11.748
136.789	12.117
153.732	12.108
170.909	12.142
188.635	12.207
205.535	12.236
222.709	12.561
239.657	12.481
256.788	12.71
274.042	12.624
291.238	12.795
308.224	13.04
325.395	13.367
342.562	13.52
359.766	13.599
377.915	13.846
394.778	14.267

Test #: 858 Sample #: 13R Filter #: KF-1076 Housing #: 75-5158 Date Code: 44707

JK 5/26/2022



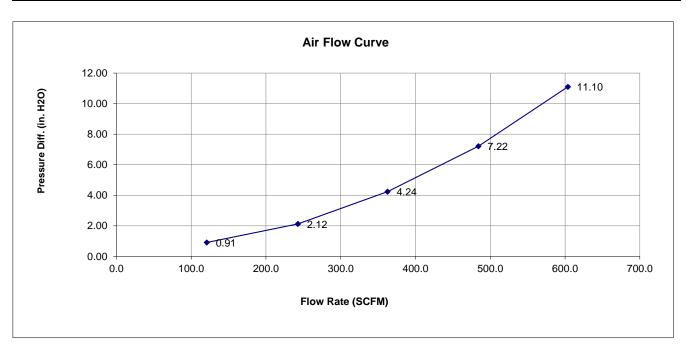
in.

Test Description: 75-5158 RESTRICTION, 606 CFM

Test Conditions

Barometric Pressure: 28.80292 in. Hg **Relative Humidity:** 46 % Air Flow Type: Temperature: 69 deg. F SCFM Number of Pleats: Pleat Depth:

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
121	0.91
243	2.12
363	4.24
484	7.22
604	11.10