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: 75-5131 **Test Date:** 04/20/2021

Description: Cold Air Intake **Test Report #:** 820

Vehicle Applications: 1994-1997 Ford Powerstroke 7.3L

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 **53.69%** 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 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 @ 631 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	53.69%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	42.81%
S&B Intake w/ Dry Filter (Secondary Inlet - Open	52.53%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	42.27%

Test Conditions	
Barometric Pressure	28.89564
Airflow Setpoint	631
Relative Humidity	30%
Temperature	67°F
Type of Dust	A4 Coarse
Batch #	14057C
Dust Feed Rate (grams/minute)	17.87

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 @ 631 cfm)
Stock	96.44%
S&B Intake w/ Cleanable Filter	99.24%
S&B Intake w/ Dry Filter	99.22%

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 #: 820
Sample #: 1
Filter #: KF-1050
Housing #: 75-5131
Date Code: 04.19.2021

WD
4/20/2021
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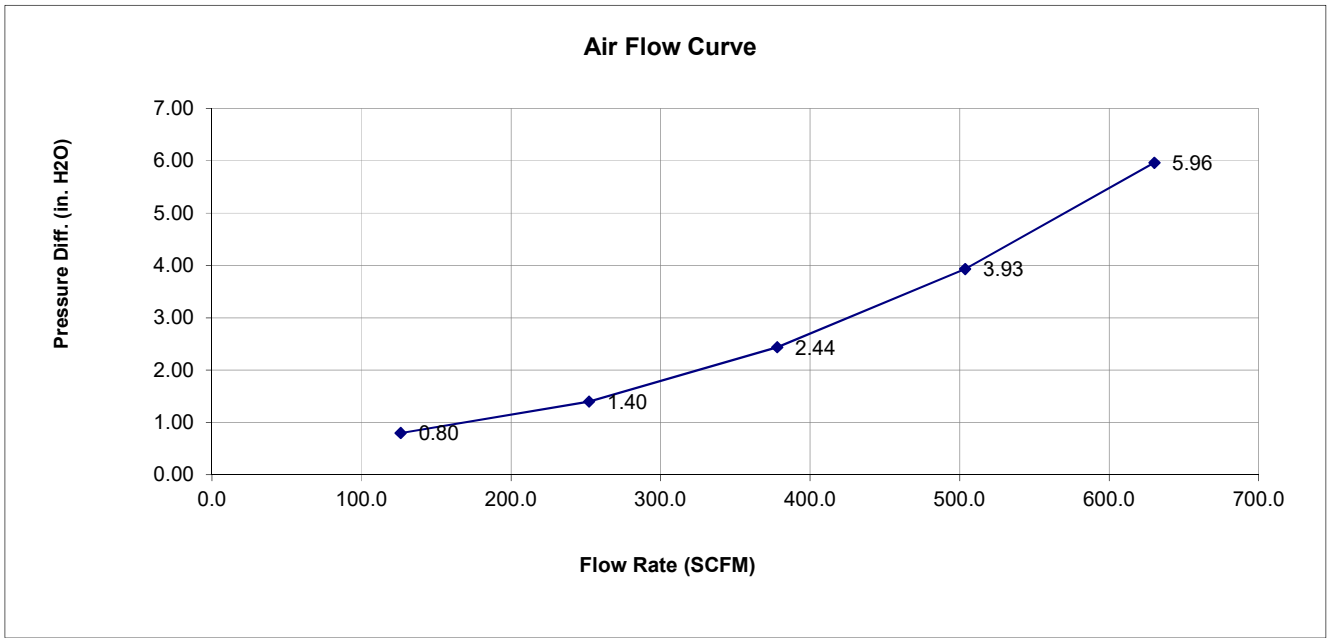
Test Description: 75-5131 WITH KF-1050 AND SECONDARY INLET OPEN

Test Conditions

Barometric Pressure:	28.89564 in. Hg	**Relative Humidity:**	30 %
Air Flow Type:	SCFM	**Temperature:**	67 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
126	0.80
252	1.40
378	2.44
504	3.93
630	5.96

Air Filter Capacity & Efficiency Test Report

Test #: 820
Sample #: 2
Filter #: KF-1050
Housing #: 75-5131
Date Code: 04.19.2021

WD
4/20/2021
S&B FILTERS
S&B FILTERS

Test Description: 75-5131 WITH KF-1050 AND SECONDARY INLET CLOSED

Test Conditions

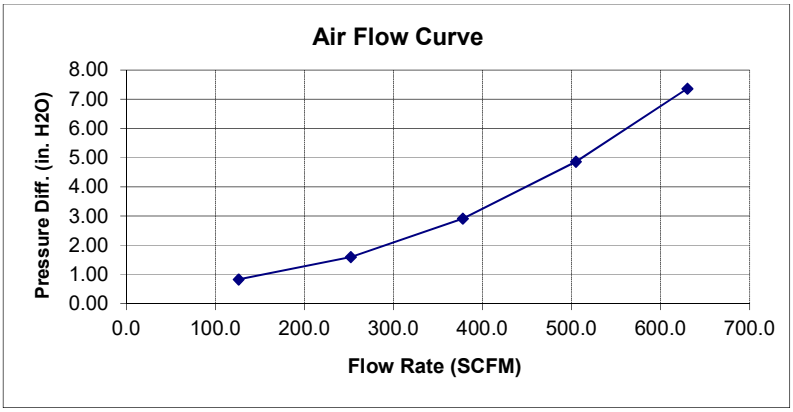
Barometric Pressure:	28.809 in. Hg	**Relative Humidity:**	61 %
Air Flow Setpoint:	631 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	ISO-5011	**Batch #:**	14057C
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	17.87 g/min
Flow Direction:		**Pleat Depth:**	in.

Test Results

Initial Delta P 7.57 in. H2O

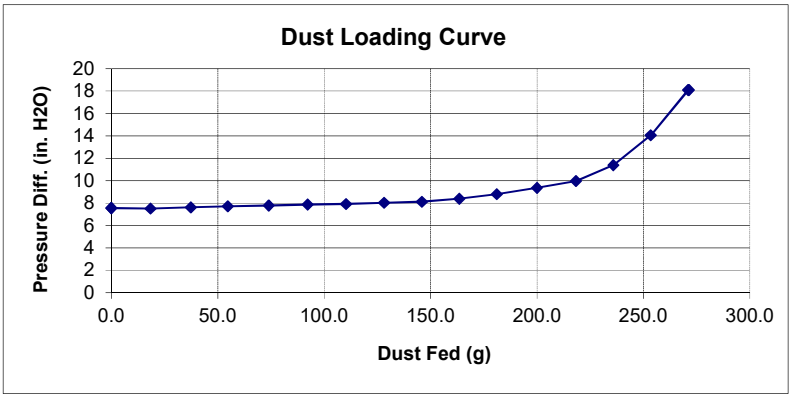
Accumulative Capacity: 262.40 g
Test Time: 15.02 min

	Initial		Accumulative					
		Blanket		Blanket				
Start			4788.30	574.58				
End			5050.70	576.57				
Gain			262.40	1.99				
Efficiency			99.24%					



Air Flow Curve Data

Flow Rate	Differential Pressure
126	0.83
252	1.60
378	2.92
505	4.86
630	7.36



Dust Curve Selection

- ○ Standard Restriction
- ◉ Pressure Differential

Air Filter Restriction Test Report

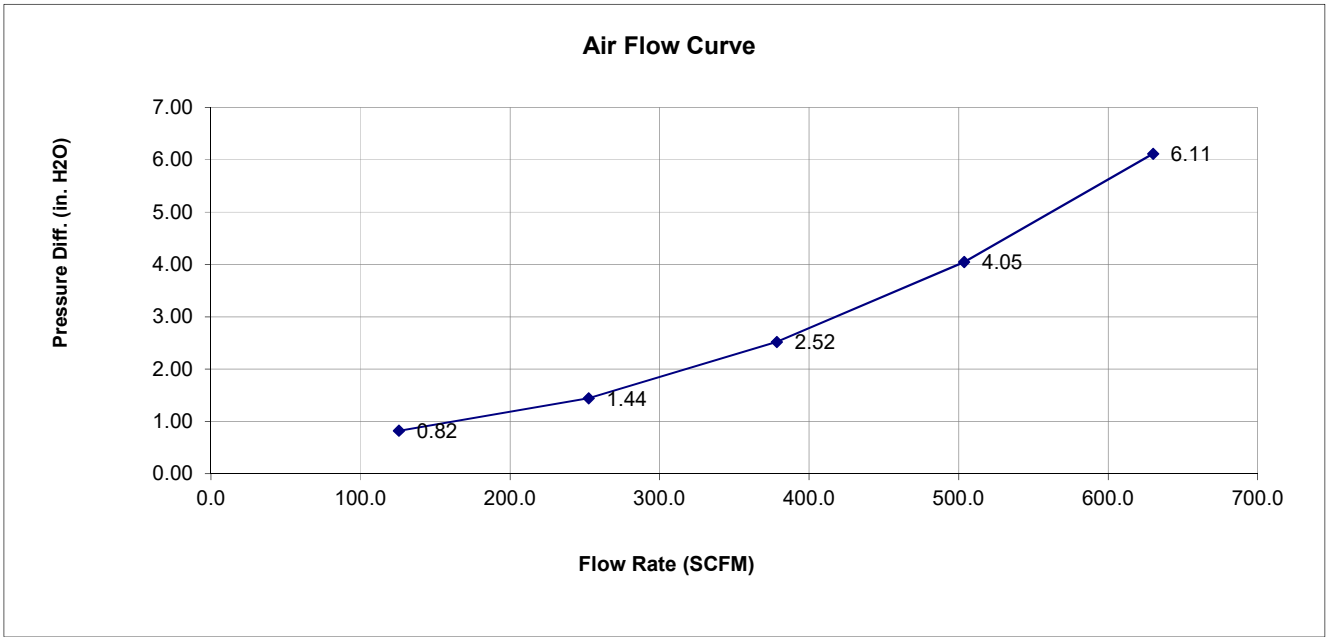
Test #: **820**
Sample #: 3
Filter #: KF-1050D
Housing #: 75-5131
Date Code: 04.19.2021

WD
4/20/2021
S&B FILTERS
S&B FILTERS

Test Description: 75-5131 WITH KF-1050D AND SECONDARY INLET OPEN

Test Conditions

Barometric Pressure:	28.89289 in. Hg	**Relative Humidity:**	57 %
Air Flow Type:	SCFM	**Temperature:**	67 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
126	0.82
252	1.44
378	2.52
504	4.05
630	6.11

Air Filter Capacity & Efficiency Test Report

Test #: 820
Sample #: 4
Filter #: KF-1050D
Housing #: 75-5131
Date Code: 04.19.2021

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S&B FILTERS
S&B FILTERS

Test Description: 75-5131 WITH KF-1050D AND SECONDARY INLET CLOSED

Test Conditions

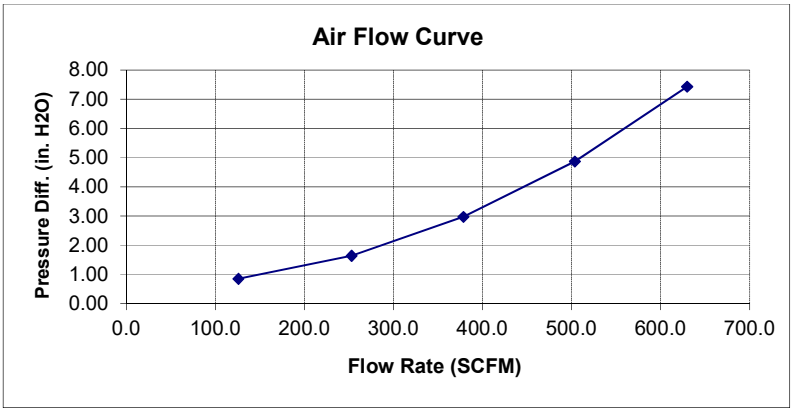
Barometric Pressure:	28.735 in. Hg	**Relative Humidity:**	58 %
Air Flow Setpoint:	631 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	ISO-5011	**Batch #:**	14057C
Air Flow Type:	SCFM	**Temperature:**	70 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	17.87 g/min
Flow Direction:		**Pleat Depth:**	in.

Test Results

Initial Delta P 7.54 in. H2O

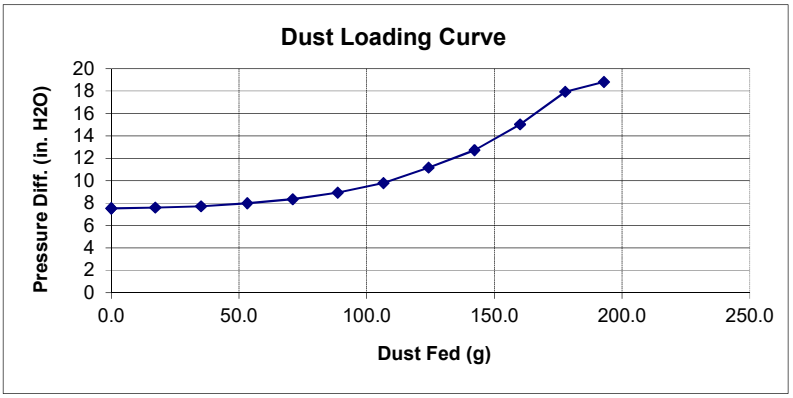
Accumulative Capacity: 196.20 g
Test Time: 10.07 min

	Initial		Accumulative					
		Blanket		Blanket				
Start			4710.00	587.29				
End			4906.20	588.83				
Gain			196.20	1.54				
Efficiency			99.22%					



Air Flow Curve Data

Flow Rate	Differential Pressure
126	0.86
253	1.65
379	2.97
504	4.87
630	7.43



Dust Curve Selection

- ○ Standard Restriction
- ◉ Pressure Differential

Air Filter Capacity & Efficiency Test Report

Test #: 820
Sample #: 5
Filter #: FA-1617
Housing #: OEM
Date Code: 04.19.2021

WD
4/20/2021
MOTORCRAFT
FORD

Test Description: 7.3L OBS STOCK INTAKE

Test Conditions

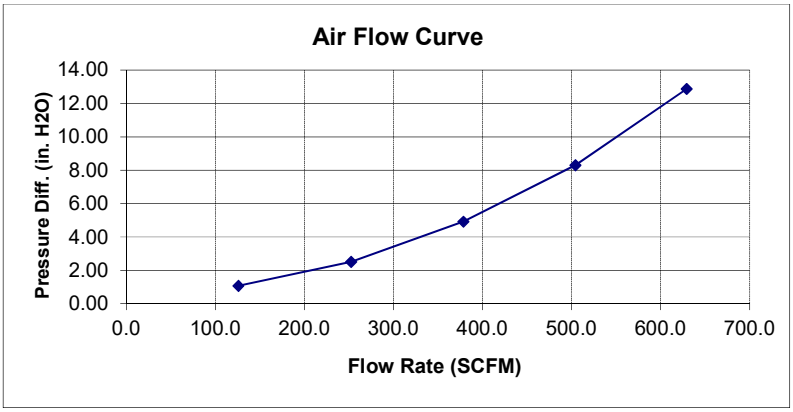
Barometric Pressure:	28.855 in. Hg	**Relative Humidity:**	61 %
Air Flow Setpoint:	631 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	ISO-5011	**Batch #:**	14057C
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	17.87 g/min
Flow Direction:		**Pleat Depth:**	in.

Test Results

Initial Delta P 12.96 in. H2O

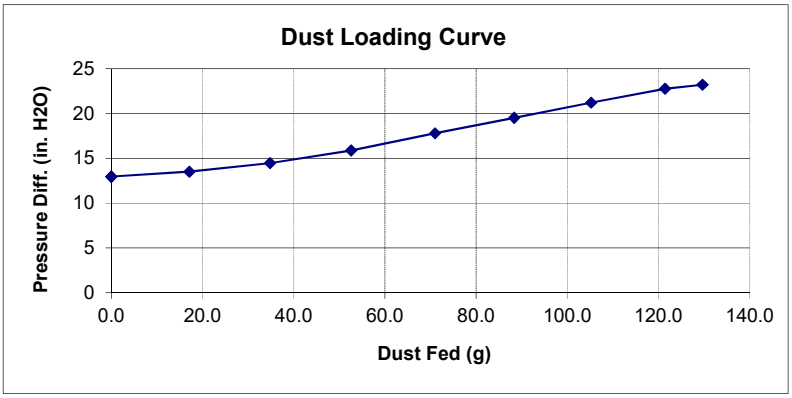
Accumulative Capacity: 127.80 g
Test Time: 7.39 min

	Initial		Accumulative					
		Blanket		Blanket				
Start			4151.70	588.91				
End			4279.50	593.46				
Gain			127.80	4.55				
Efficiency			96.44%					



Air Flow Curve Data

Flow Rate	Differential Pressure
126	1.08
253	2.51
379	4.92
505	8.30
630	12.87



Dust Curve Selection

- ○ Standard Restriction
- ◉ Pressure Differential