



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 #:**

**Vehicle 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.**

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 @ \_\_\_\_\_ cfm)**

S&B Intake w/ Cleanable Filter

S&B Intake w/ Dry Filter

#### **Test Conditions**

Barometric Pressure

Airflow Setpoint

Relative Humidity

Temperature

Type of Dust

Batch #

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 efficiency rate (amount of dust the filter stops), so that we can be sure that your engine will be protected

#### **Description**

#### **Efficiency Rate (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

RESET FORM

# Air Filter Restriction Test Report

Test #: 869-1R  
Sample #: 869-1  
Filter #:  
Housing #:  
Date Code: 44729

DC  
6/17/2022



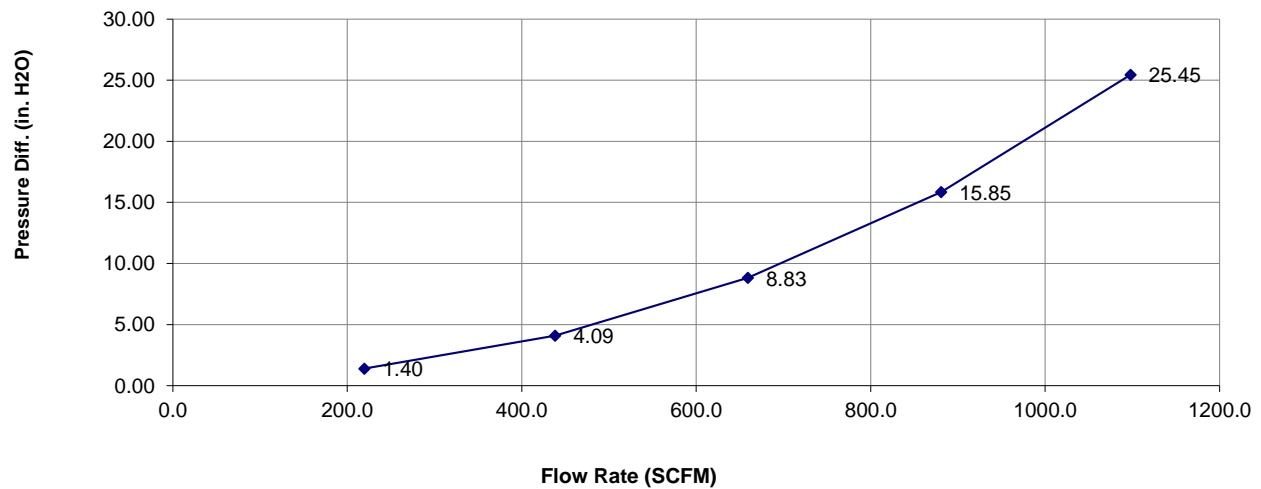
Test Description: 75-5150 RAM TRX STOCK BASELINE RESTRICTION

## Test Conditions

Barometric Pressure: 28.67298 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 56 %  
Temperature: 69 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

Flow Rate	Differential Pressure
220	1.40
438	4.09
659	8.83
881	15.85
1098	25.45

# Air Filter Restriction Test Report

Test #: 869-2R  
Sample #: 869-2  
Filter #: KF-1086  
Housing #:  
Date Code: 44729

DC  
6/17/2022



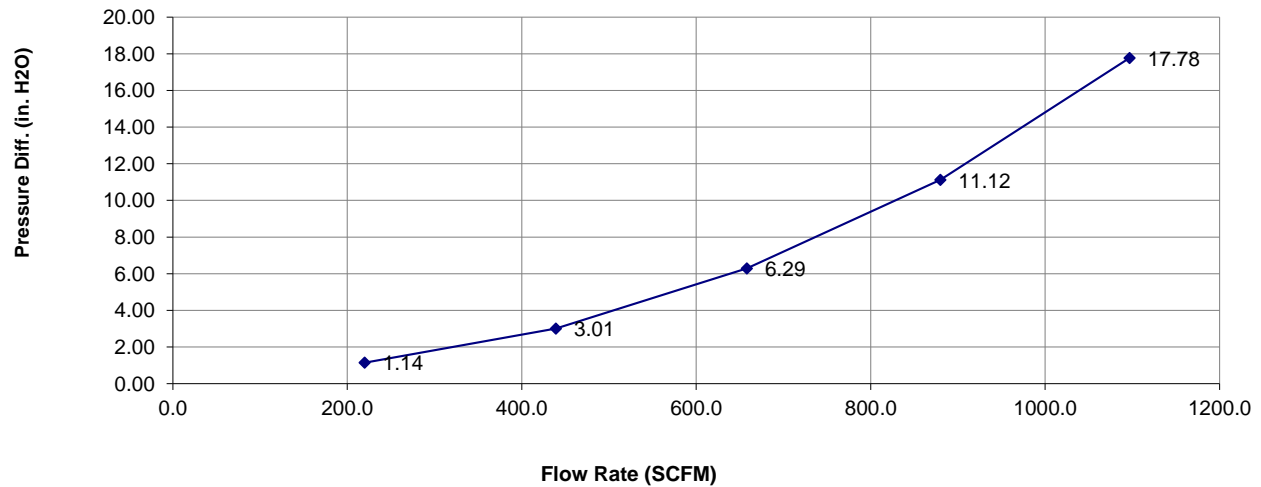
Test Description: 2021 RAM TRX PRODUCTION RESTRICTION KF-1086 70 PLEATS 215 GRAMS

## Test Conditions

Barometric Pressure: 28.71857 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 70  
Flow Direction:

Relative Humidity: 53 %  
Temperature: 68 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

Flow Rate	Differential Pressure
220	1.14
439	3.01
658	6.29
880	11.12
1097	17.78

# Air Filter Restriction Test Report

Test #: 869-4R  
Sample #: 869-R  
Filter #: KF-1086D  
Housing #:  
Date Code: 44729

DC  
6/17/2022



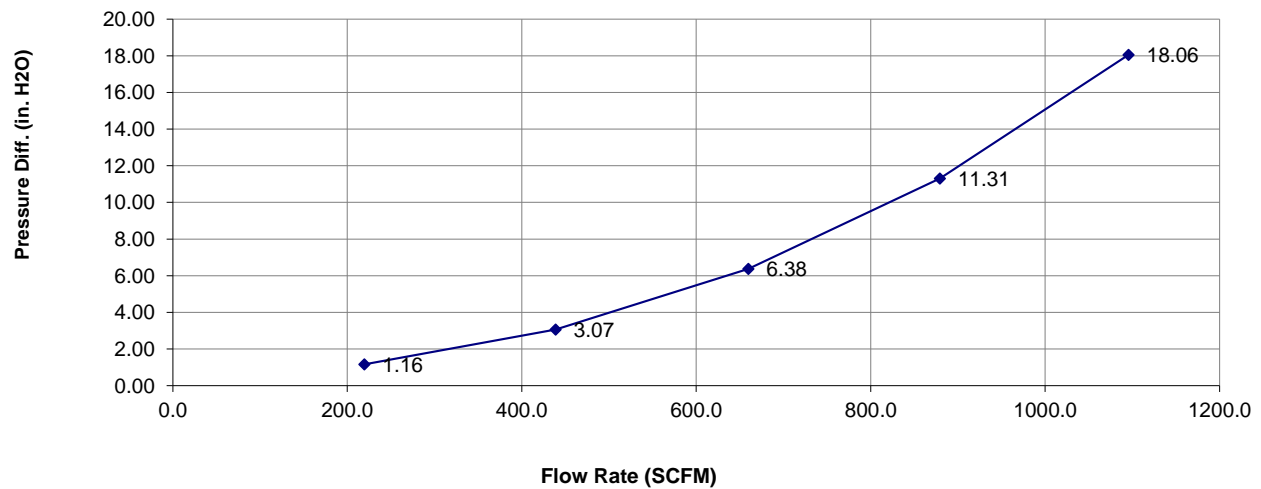
Test Description: 2021 RAM TRX 75-5150 KF-1086D 130 PLEATS RESTRICTION

## Test Conditions

Barometric Pressure: 28.70943 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 130  
Flow Direction:

Relative Humidity: 54 %  
Temperature: 69 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

Flow Rate	Differential Pressure
219	1.16
439	3.07
660	6.38
879	11.31
1096	18.06

# Air Filter Full Life Efficiency Test Report

Test #: 869-6CE  
Sample #: 869-6  
Filter #:  
Housing #:  
Date Code: 44734

Operator: DC  
Report Date: 6/22/2022  
Filter Mfg.:  
Housing Mfg.:



Test Description: 2021 RAM TRX 6.2L Stock Capacity and Efficiency

## Test Conditions

Barometric Pressure: 28.818 in. Hg  
Air Flow Setpoint: 1000 SCFM  
Test Procedure: CE  
Air Flow Type: SCFM  
Test Endpoint: 10 in. H2O  
Number of Pleats:  
Flow Direction:

Relative Humidity: 57 %  
Type of Dust:  
Batch #:  
Temperature: 69 deg. F  
Initial Add Rate: NaN g/min  
Accumulative Add Rate: 28.32 g/min  
Pleat Depth: in.

## Test Results

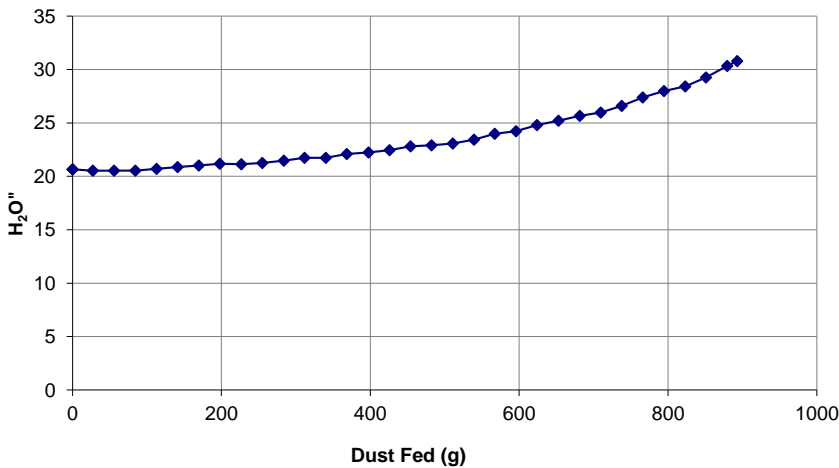
Initial Delta P 20.34 in. H2O

Accumulative Capacity: 872.50 g  
Test Time: 31.59 min

	Initial		Accumulative	
		Blanket		Blanket
Start			7559.80	591.61
End			8432.30	603.86
Gain			872.50	12.25
Efficiency			98.62%	

- ☒ Standard Restriction  
☐ Pressure Differential

Dust Loading Curve



Dust Loading Curve Data

Dust Fed (g)	Pressure (in H2O)
0	20.664
27.279	20.524
55.663	20.533
84.419	20.526
112.964	20.702
141.17	20.881
169.424	21.023
197.902	21.183
226.736	21.142
255.003	21.246
283.859	21.463
311.73	21.723
340.047	21.727
368.521	22.101
397.651	22.241
425.687	22.457
454.017	22.815
482.282	22.914
510.813	23.076
539.307	23.443
567.269	23.997
595.68	24.224
624.115	24.793
652.695	25.21

# Air Filter Full Life Efficiency Test Report

Test #:  
Sample #:  
Filter #:  
Housing #:  
Date Code:

Operator:  
Report Date:  
Filter Mfg.:  
Housing Mfg.:



**Test Description:**

## Test Conditions

Barometric Pressure:	in. Hg
Air Flow Setpoint:	SCFM
Test Procedure:	
Air Flow Type:	
Test Endpoint:	in. H2O
Number of Pleats:	
Flow Direction:	

Relative Humidity:	%
Type of Dust:	
Batch #:	
Temperature:	deg. F
Initial Add Rate:	g/min
Accumulative Add Rate:	g/min
Pleat Depth:	in.

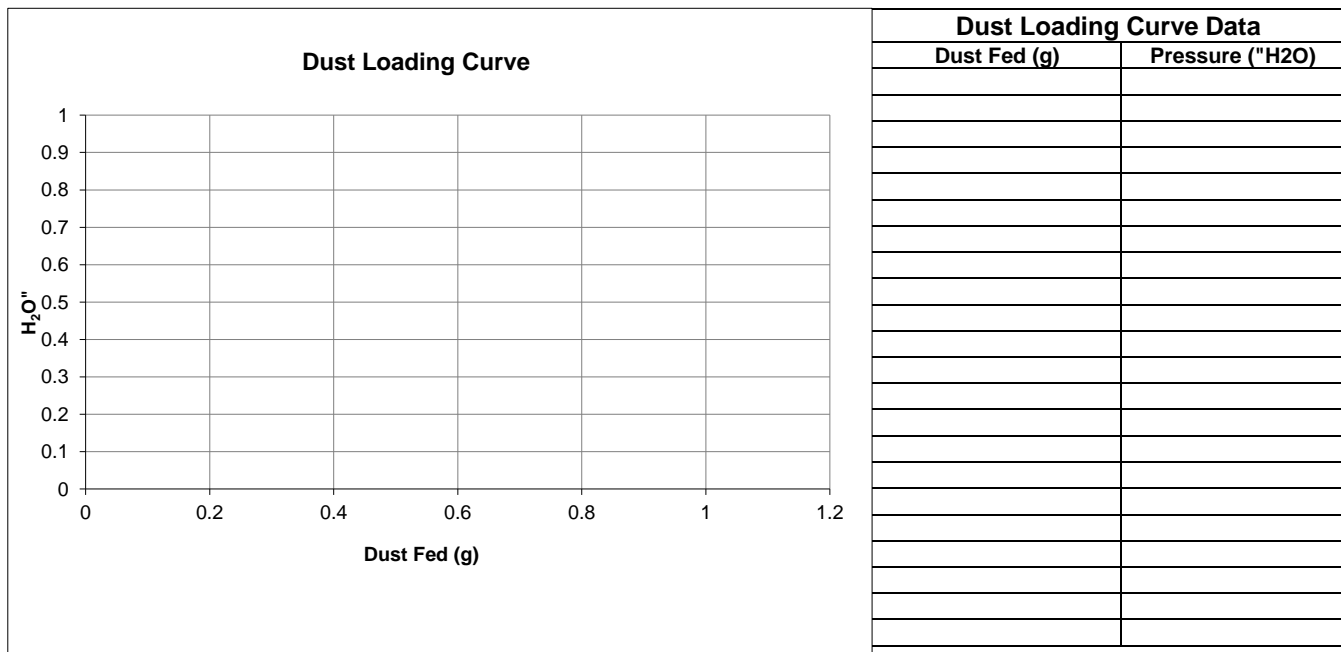
## Test Results

Initial Delta P 0.00 in. H2O

**Accumulative Capacity:** 373.10 g  
**Test Time:** min

	Initial				Accumulative			
			Blanket				Blanket	
Start					8129.40		603.79	
End					8502.50		606.12	
Gain					373.10		2.33	
Efficiency					99.38%			

 Standard Restriction

 Pressure Differential

# Air Filter Full Life Efficiency Test Report

Test #: 869-10CE  
Sample #: 869-10  
Filter #: KF-1086  
Housing #:  
Date Code: 44736

Operator: DC  
Report Date: 6/24/2022  
Filter Mfg.: S&B  
Housing Mfg.:



Test Description: 75-5150 RAM TRX KF-1086 PRODUCTION C&E

## Test Conditions

Barometric Pressure: 28.758 in. Hg  
Air Flow Setpoint: 1000 SCFM  
Test Procedure: CE  
Air Flow Type: SCFM  
Test Endpoint: 10 in. H2O  
Number of Pleats: 70  
Flow Direction:

Relative Humidity: 54 %  
Type of Dust: ISO COARSE  
Batch #: 14057C  
Temperature: 71 deg. F  
Initial Add Rate: NaN g/min  
Accumulative Add Rate: 28.32 g/min  
Pleat Depth: in.

## Test Results

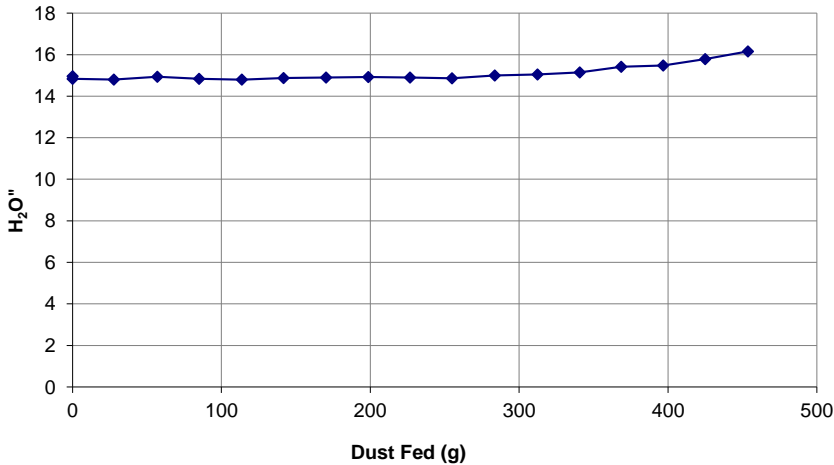
Initial Delta P 14.79 in. H2O

Accumulative Capacity: 435.80 g  
Test Time: 16.01 min

	Initial		Accumulative	
		Blanket		Blanket
Start			8857.00	575.20
End			9292.80	578.65
Gain			435.80	3.45
Efficiency			99.21%	

- ☒ Standard Restriction  
☐ Pressure Differential

Dust Loading Curve



Dust Loading Curve Data

Dust Fed (g)	Pressure (in. H2O)
0	14.841
27.68	14.806
56.991	14.94
84.981	14.833
113.607	14.795
141.792	14.88
170.282	14.903
198.61	14.921
226.741	14.896
254.843	14.857
283.619	15.002
312.387	15.049
340.766	15.15
368.584	15.422
396.841	15.479
425.057	15.79
453.737	16.159















