ASHRAE 52.2 DUST ARRESTANCE TEST REPORT

Manufacturer: Filter Manufacturer

Product Name: Air Cleaner 1

RTI Report No. A04261601

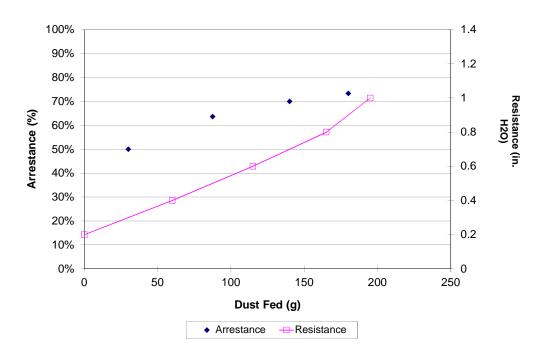
Test Laboratory:
RTI
3040 Cornwallis Road
Research Triangle Park, NC 27709
919-541-6941
mko@rti.org

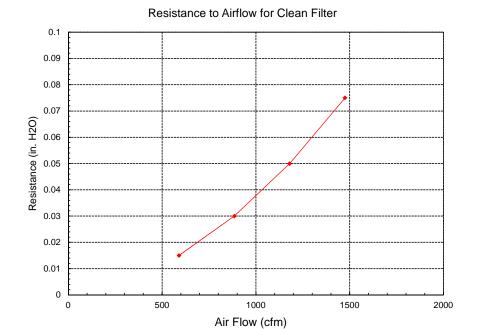
ASHRAE Std. 52.2 Arrestance Only Test Report Summary This report applies to the tested device only.

Laboratory Data						
RTI Report No.	A04261601			Date	26-Apr-16	
Test Laboratory	RTI International			_		
Operator	Pope		Supervisor	Owen/Hanley		
Particle Counter(s):	Brand	Brand NA		Model NA		
Device Manufacturer's Data						
Manufacturer	Filter Manufa	acturer		_		
Product Name	Air Cleaner 1	Air Cleaner 1				
Product Model				_		
Test requested by	Filter Manufa	Filter Manufacturer		_		
Sample obtained from	Filter Manufa	acturer		_		
Catalog rating:	Airflow rate		NA	Initial	dP (in. wg)	NA
Specified test conditions:	Airflow (cfm)		1180	Final	dP (in. wg)	0.50
	Face Velocity (fpm)		295	-		
Device Description						
Nominal Dimensions (in.):	24 x 24 x 1		(height x v	vidth x depth))	
Generic name	pleated pane	el	_	Media colo	r white	
Amount and type of adhesive	NA			-		
Other attributes						
Test Conditions						
Airflow (cfm)	1180	Temperature (F)		NA	RH (%)	NA
Face Velocity (fpm)	295	– Final Pressure D		rop (in. wg)	0.50	
Test aerosol type:	NA					
AL.						
Remarks						
Remarks Resistance Test Results Initial resistance (in. wg)	0.05		Final resis	stance (in. wg) _	0.50
Remarks Resistance Test Results Initial resistance (in. wg)			Final resis	stance (in. wg)	0.50
Remarks Resistance Test Results	Data	63%	Final resis	stance (in. wg)	0.50

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Resistance and Arrestance vs. Synthetic Loading Dust Fed





TABULATED DATA SUMMARY Report No. A04261601 Research Triangle Institute

Summary of Test Conditions:

Product Manufacturer
Product Name
Nominal Dimensions (in.)
Airflow (cfm)
Final Resistance (in. H2O)
Fixed Paragraph Air Cleaner 1
24 x 24 x 1
1180
5.50

Resistance to Airflow:

Airflow	Airflow	Airflow	Air Velocity	Air Velocity	Resistance	Resistance
(%)	(m3/s)	(cfm)	(fpm)	(m/s)	(in. H2O)	(Pa)
50	0.070	500	4.40	0.740	0.00	4
50	0.278	590	148	0.749	0.02	4
75	0.418	885	221	1.124	0.03	7
100	0.557	1180	295	1.499	0.05	12
125	0.696	1475	369	1.873	0.08	19

Resistance to Airflow with Loading at 1180 cfm

	Resistance (in. H2O)	Resistance (Pa)	Dust Fed (g)	Arrestance (%)
Initial	0.05	12		
After first dust load	0.16	40	60	50%
After second dust load	0.28	68	55	64%
After third dust load	0.39	96	50	70%
After fourth dust load	0.50	124	30	73%
				63% Average
D (1111) 0 (2110)	100.0			

Dust Holding Capacity (DHC) 122.0 g Arrestance (Avg) 63%