

 <p>Blue Heaven Technologies 2820 S. English Station Road - Louisville, KY 40299 Tel: (502) 357-0132</p>	<p>Date: 23-Jul-24</p>	<p>TEST NO. 24-556-4</p>
	 <p>ACCREDITED CERTIFICATE #6296.01 ISO/IEC 17025:2017</p>	<p>Test Report ASHRAE Standard 52.2-2017 Initial Efficiency / Resistance</p>

Test results relate only to items tested. Report shall not be reproduced w/o permission

Filter Description

Manufacturer	Filter King
Filter Model	1" Pleated
Part Number	MERV 11
Generic Filter Type	Pleated Panel
Nominal Dimensions (H x W x D)	20" x 20" x 1"
Pocket / Pleat Quantity	22 Pleats
Media Type	Synthetic
Est. Gross Media Area	5.38 Ft ²
Adhesive Type	N A



Test Conditions

Loading Dust Type	NA	Test Air Temp (degrees F.)	71
Barometric Pressure (In. Hg.)	29.32	Relative Humidity (%)	50

Test Results

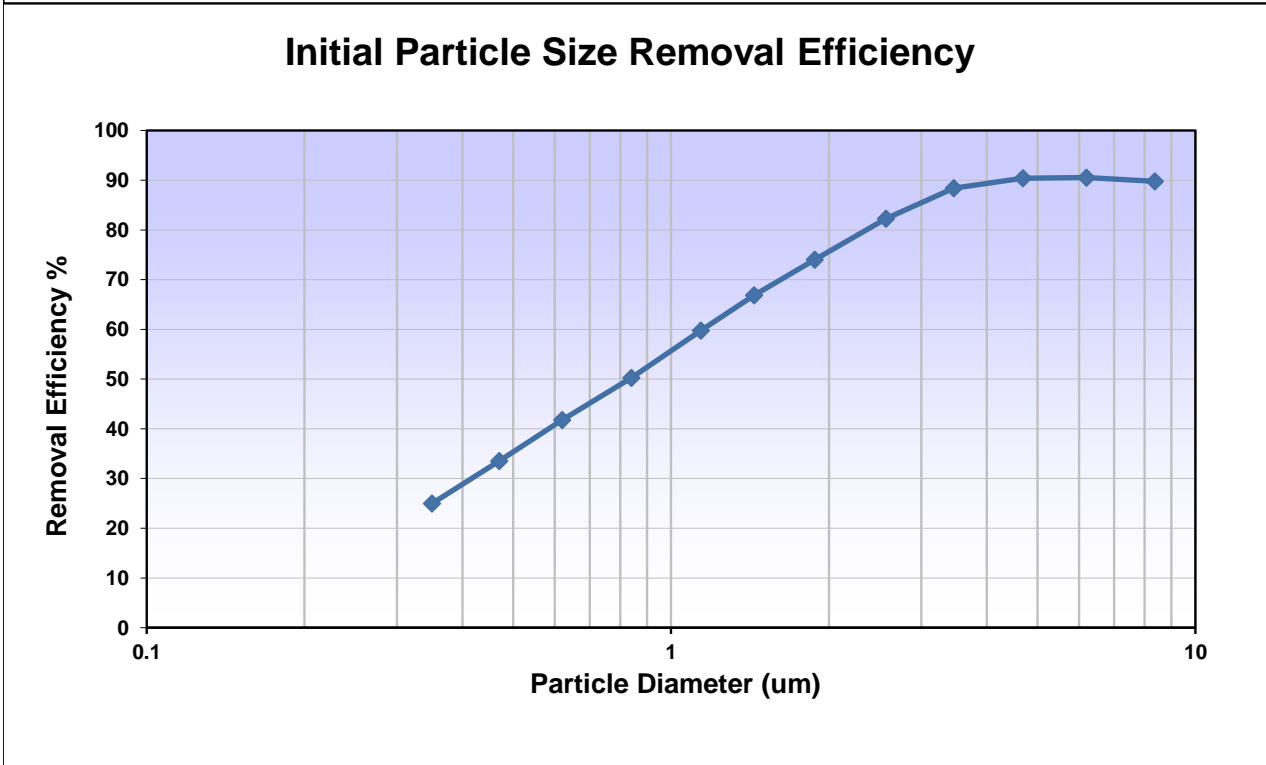
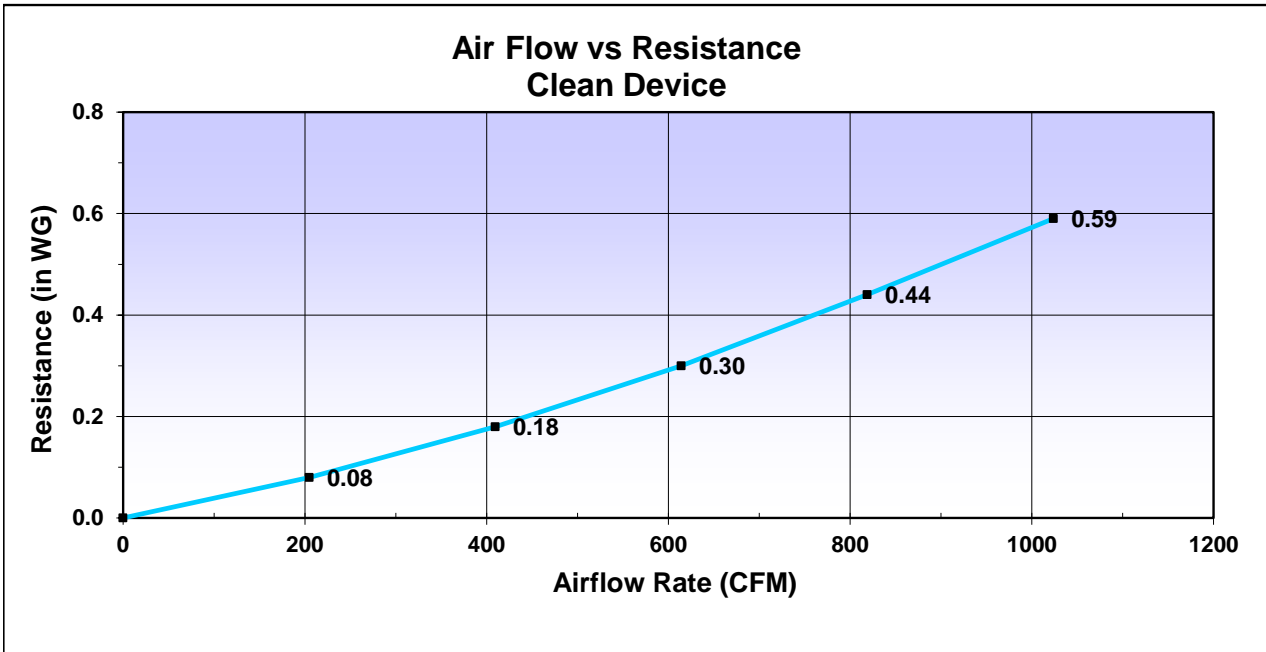
Airflow Rate (CFM)	819
Nominal Face Velocity (fpm)	295
Initial Resistance (in WG)	0.44
E1 (%) Initial Efficiency 0.30 - 1.0 um	38
E2 (%) Initial Efficiency 1.0 - 3.0 um	71
E3 (%) Initial Efficiency 3.0 - 10.0 um	90
Estimated * Minimum Efficiency Reporting Value (MERV)	MERV 11 @ 819 CFM
<i>* If initial data is minimum</i>	

Comments Tested For: Filter King

Test Performed by: C Rees CAFS Approved By: **T Shoulders** Manager

Important Note: Please be advised that ASHRAE committee SSPC 52.2. in March 2016, published "addendum e" relative to 52.2-2012 test protocol. This addendum restricts the use of the acronym "MERV" as only applicable to a test report that has been completed using the "entire procedure prescribed by the standard". This report is a modified version of the procedure and therefore, subject to that ruling. In the best interest of our customers, Blue Heaven Technologies has elected to delay this action until further assessment can be made at committee level. Where applicable, the qualified use of the term "MERV" will continue to be part of our reported data.

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Data - Initial Resistance

Airflow (CFM)	Resistance (in WG)
0	0.00
205	0.08
410	0.18
614	0.30
819	0.44
1024	0.59

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	25.0
0.40 - 0.55	0.47	33.5
0.55 - 0.70	0.62	41.8
0.70 - 1.00	0.84	50.3
1.00 - 1.30	1.14	59.7
1.30 - 1.60	1.44	66.9
1.60 - 2.20	1.88	74.0
2.20 - 3.00	2.57	82.3
3.00 - 4.00	3.46	88.4
4.00 - 5.50	4.69	90.4
5.50 - 7.00	6.20	90.5
7.00 - 10.00	8.37	89.8