

 <p style="font-size: 1.2em; font-weight: bold; margin: 0;">Blue Heaven Technologies</p> <p style="font-size: 0.8em; margin: 0;">2820 S. English Station Road - Louisville, KY 40299 Tel: (502) 357-0132 Fax (502) 267-8379</p>	<p>Date: 10-Aug-22 TEST NO. 22-356-1</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">ASHRAE Standard 52.2-2017 TEST REPORT Initial Efficiency / Resistance</p>
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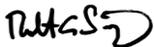
Filter Description	
Manufacturer Filter Model Part Number Generic Filter Type Nominal Dimensions (H x W x D) Pocket / Pleat Quantity Media Type Est. Gross Media Area Adhesive Type	BNX 1" Pleat NA Pleated 20" x 25" x 1" 21 Pleats Synthetic 5.13ft ² Standard



Test Conditions			
Loading Dust Type	NA	Test Air Temp (degrees F.)	74
Barometric Pressure (In. Hg.)	29.47	Relative Humidity (%)	40

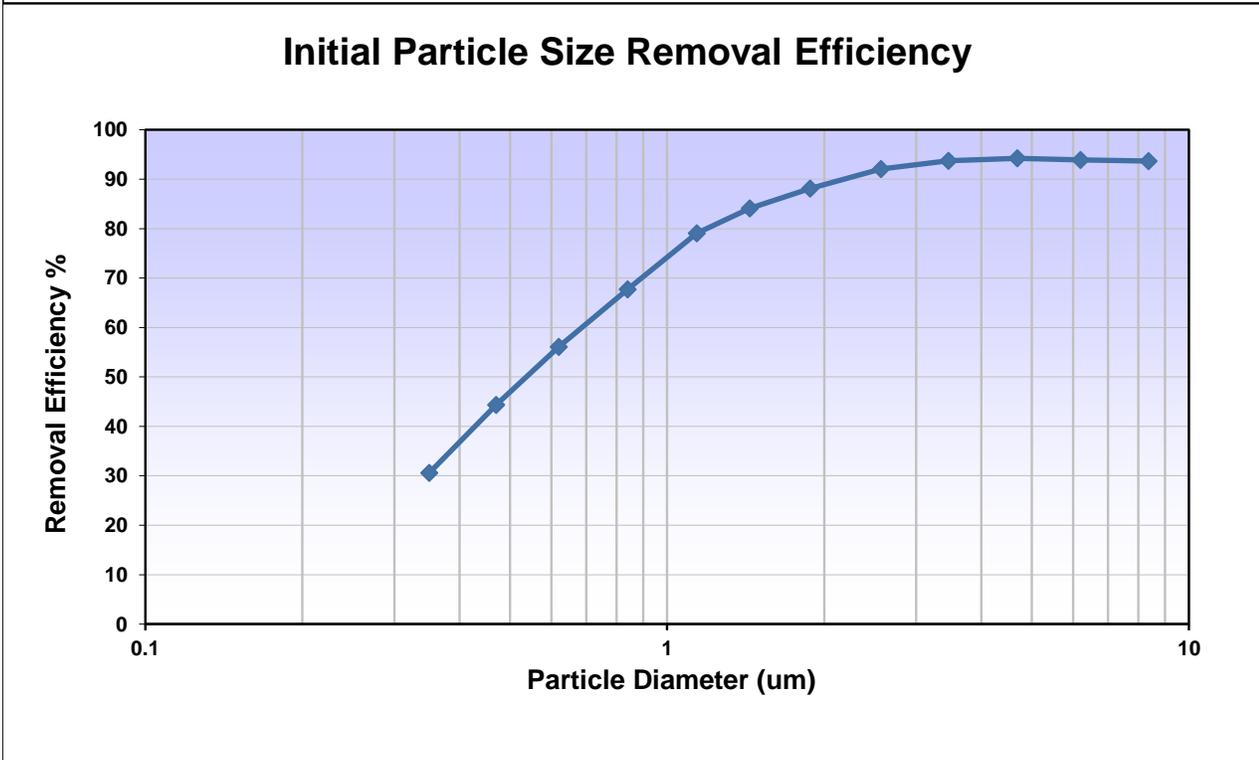
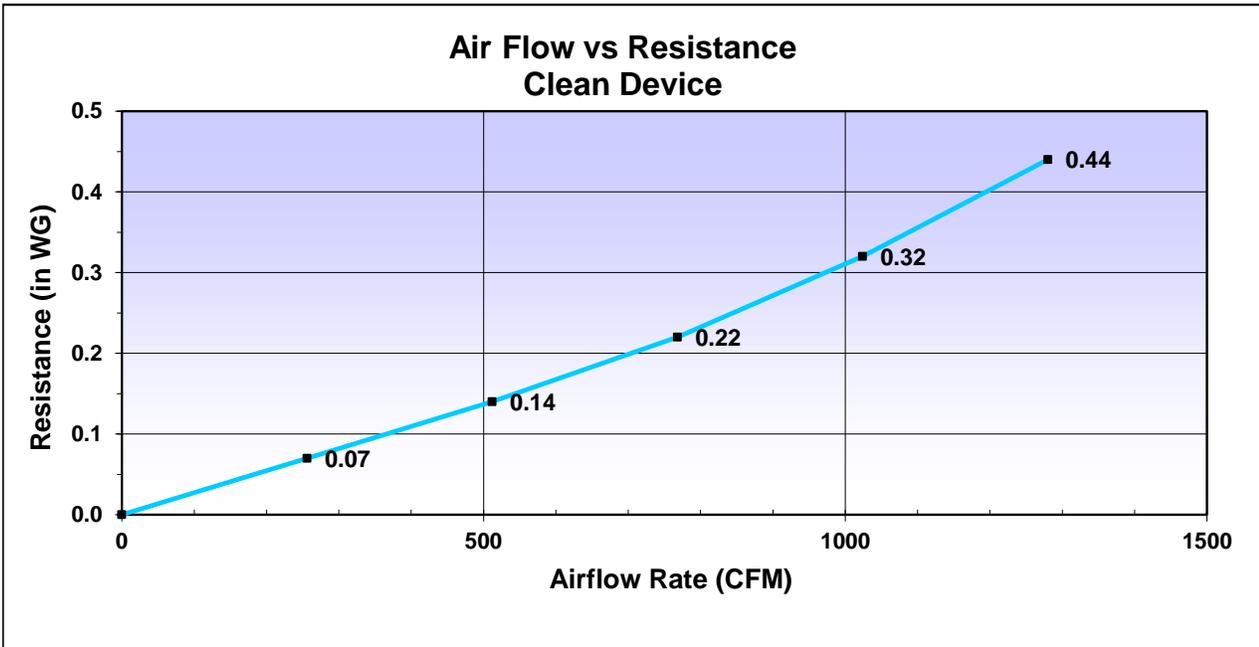
Test Results	
Airflow Rate (CFM)	1024
Nominal Face Velocity (fpm)	295
Initial Resistance (in WG)	0.32
E1 (%) Initial Efficiency 0.30 - 1.0 um	50
E2 (%) Initial Efficiency 1.0 - 3.0 um	86
E3 (%) Initial Efficiency 3.0 - 10.0 um	94
Estimated * Minimum Efficiency Reporting Value (MERV)	MERV 13 @ 1024 CFM
<i>* If initial data is minimum</i>	

Comments Tested For: BNX

Test Performed by: TS Approved By:  Manager Page 1 of 3

Important Note: Please be advised that the ASHRAE committee SSPC 52.2, in March 2016, has published "addendum e" relative to the 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
256	0.07
512	0.14
768	0.22
1024	0.32
1280	0.44

Data - Particle Removal Efficiency

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	30.6
0.40 - 0.55	0.47	44.3
0.55 - 0.70	0.62	56.1
0.70 - 1.00	0.84	67.7
1.00 - 1.30	1.14	79.1
1.30 - 1.60	1.44	84.1
1.60 - 2.20	1.88	88.1
2.20 - 3.00	2.57	92.1
3.00 - 4.00	3.46	93.7
4.00 - 5.50	4.69	94.2
5.50 - 7.00	6.20	93.9
7.00 - 10.00	8.37	93.7