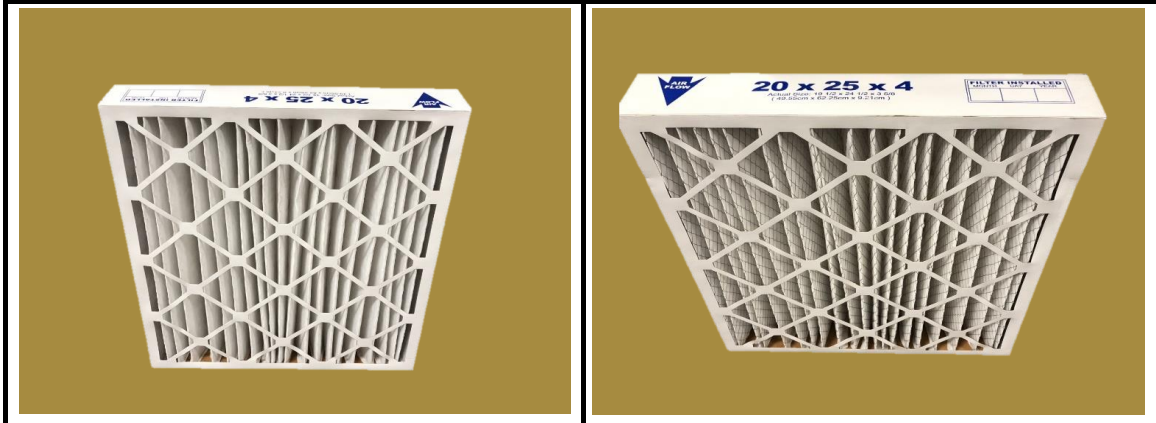


|   |   |
|---|---|
|  <p><b>Blue Heaven Technologies</b></p> <p>2820 S. English Station Road - Louisville, KY 40299<br/>         Tel: (502) 357-0132 Fax (502) 267-8379</p> | <p><b>Date:</b> 18-Jul-23      <b>TEST NO.</b> 23-307-2</p> <p style="text-align: center;"><b>ASHRAE Standard 52.2-2017</b><br/> <b>TEST REPORT</b><br/> <b>Initial Efficiency / Resistance</b></p> |
|---|---|

|                                |               |
|--------------------------------|---------------|
| <b>Filter Description</b>      |               |
| Manufacturer                   | BNX           |
| Filter Model                   | NA            |
| Part Number                    | NA            |
| Generic Filter Type            | Pleated       |
| Nominal Dimensions (H x W x D) | 20"x 25" x 4" |
| Pocket / Pleat Quantity        | 20 Pleats     |
| Media Type                     | Synthetic     |
| Est. Gross Media Area          | 20.83 sq ft   |
| Adhesive Type                  | Standard      |



|                               |       |                            |    |
|-------------------------------|-------|----------------------------|----|
| <b>Test Conditions</b>        |       |                            |    |
| Loading Dust Type             | NA    | Test Air Temp (degrees F.) | 70 |
| Barometric Pressure (In. Hg.) | 29.39 | Relative Humidity (%)      | 45 |

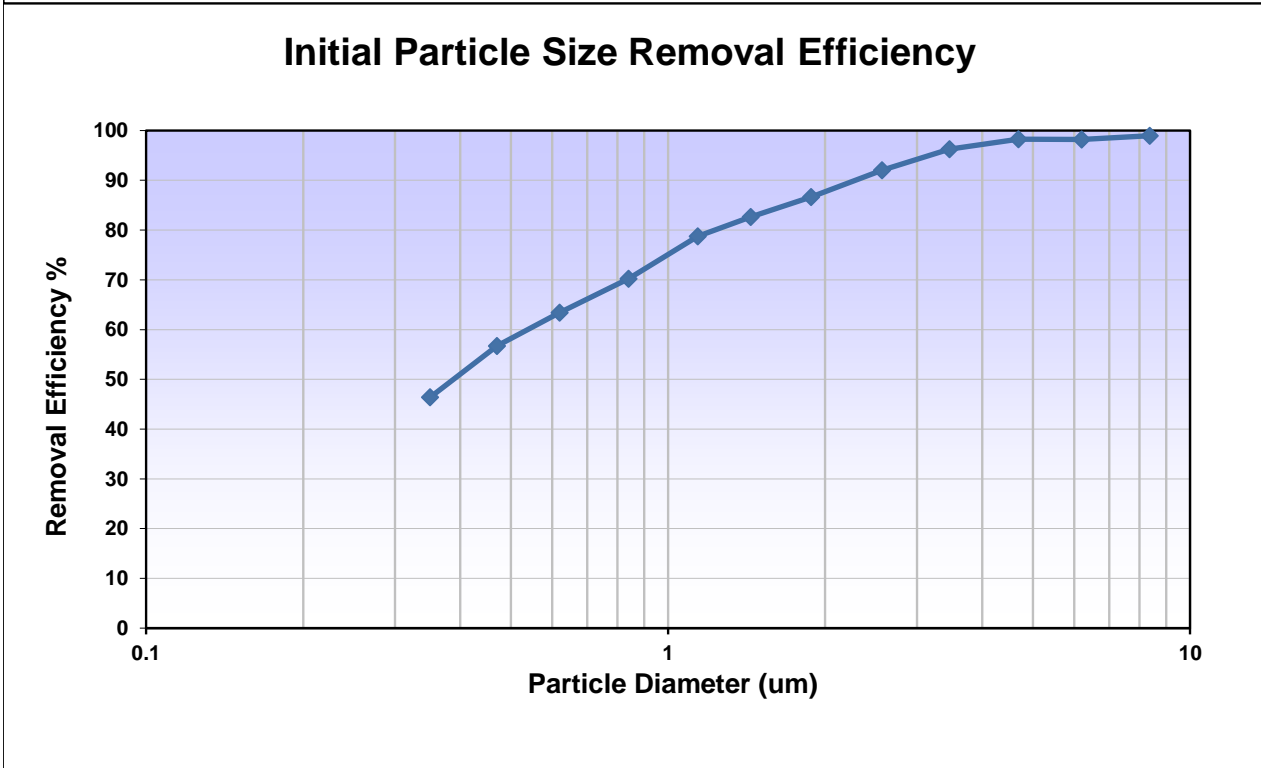
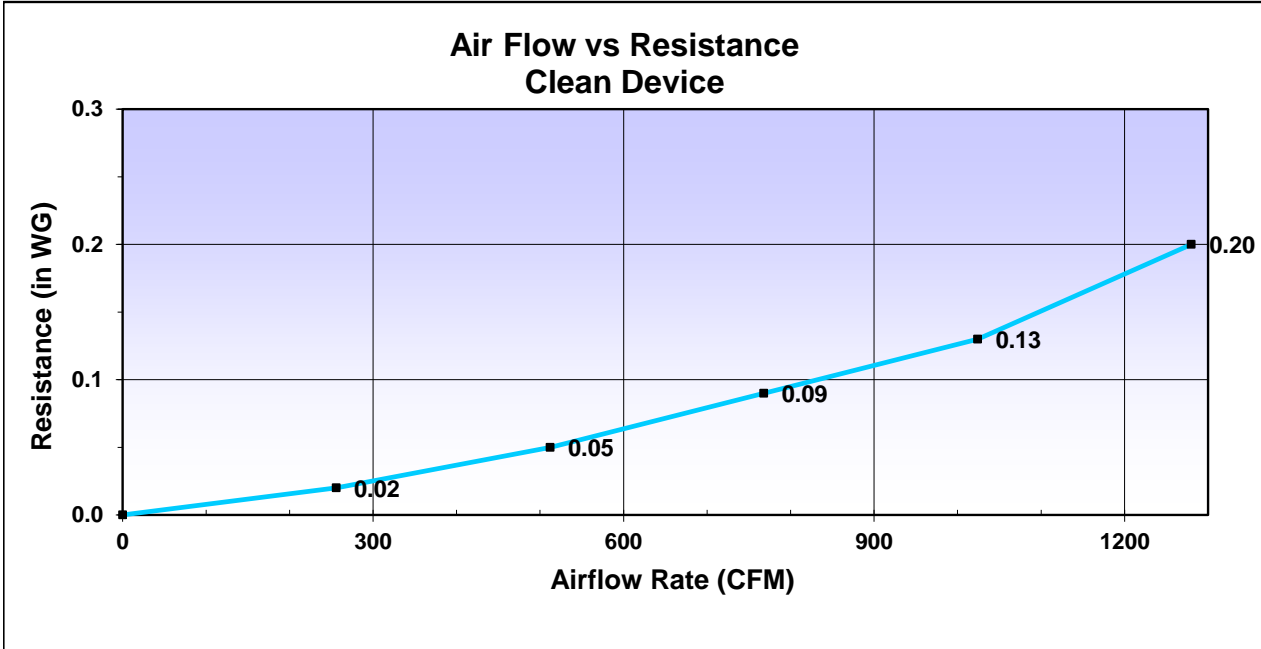
|   |                           |
|---|---------------------------|
| <b>Test Results</b>   |                           |
| Airflow Rate (CFM)  | <b>1024</b>               |
| Nominal Face Velocity (fpm)   | <b>295</b>                |
| Initial Resistance (in WG)  | <b>0.13</b>               |
| E1 (%) Initial Efficiency 0.30 - 1.0 um   | <b>59</b>                 |
| E2 (%) Initial Efficiency 1.0 - 3.0 um  | <b>85</b>                 |
| E3 (%) Initial Efficiency 3.0 - 10.0 um   | <b>98</b>                 |
| Estimated * Minimum Efficiency Reporting Value (MERV)<br>* If initial data is minimum | <b>MERV 13 @ 1024 CFM</b> |

**Comments** Tested For:      BNX

Test Performed by: TWS, CAFS      Approved By:       Manager      Page 1 of 3

Important Note: Please be advised that the ASHRAE committee SSSC 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.

Test No. 23-307-2  
Date: 18-Jul-23



Test No. 23-307-2  
Date: 18-Jul-23

**Data - Initial Resistance**

| Airflow (CFM) | Resistance (in WG) |
|---------------|--------------------|
| 0             | 0.00               |
| 256           | 0.02               |
| 512           | 0.05               |
| 768           | 0.09               |
| 1024          | 0.13               |
| 1280          | 0.20               |

**Data - Particle Removal Efficiency**

| Particle Size Range (um) | Geometric Mean Diam (um) | Initial Particle Removal Efficiency (%) |
|--------------------------|--------------------------|---|
| 0.30 - 0.40              | 0.35                     | 46.4                                    |
| 0.40 - 0.55              | 0.47                     | 56.7                                    |
| 0.55 - 0.70              | 0.62                     | 63.4                                    |
| 0.70 - 1.00              | 0.84                     | 70.2                                    |
| 1.00 - 1.30              | 1.14                     | 78.8                                    |
| 1.30 - 1.60              | 1.44                     | 82.6                                    |
| 1.60 - 2.20              | 1.88                     | 86.7                                    |
| 2.20 - 3.00              | 2.57                     | 92.0                                    |
| 3.00 - 4.00              | 3.46                     | 96.3                                    |
| 4.00 - 5.50              | 4.69                     | 98.3                                    |
| 5.50 - 7.00              | 6.20                     | 98.2                                    |
| 7.00 - 10.00             | 8.37                     | 99.0                                    |