**Application:** The HI Series Industrial Grade Filter is an impingement type panel filter designed for use in residential, commercial and industrial HVAC applications to remove large airborne particulate and coolant mist from the airstream. Popular applications include outside air intake ducts, rooftop economizer hoods and air handling units. It is an ideal solution for any HVAC system that desires a washable and durable pre-filter with low resistance to airflow.

**Construction:** The HI Series uses a metal frame to enclose the media pack consisting of multiple layers of corrugated screen wire assembled in a criss-cross fashion for strength. The pack is then placed between two layers of expanded metal and is made to fit firmly inside the frame giving the HI Series filter its exceptional strength and durability. The frame is made with mitered corners and is secured with pop-rivet(s). The frame has drain holes in three corners.

**Filter Cleaning and Coating**
1. To clean a dirty filter, rinse it with a moderate-to-heavy stream of warm water. High-powered steam cleaning or chemical dips are unnecessary and not recommended.
2. The HI Series filter is not supplied from the factory with filter adhesive coating. If desired, it may be sprayed before installation with Filter Coat, a water soluble adhesive and detergent.

**AVAILABLE IN THREE ALLOYS**

**HIA**
Aluminum

**HIG**
Galvanized Steel

**HIS**
Stainless Steel

**PRODUCT HIGHLIGHTS**
- Ridgid, Multi-Layered Construction
- Low Resistance to Airflow
- Washable and Reusable
- Corner Drain Holes

**FAST FACTS**

**MINIMUM ORDER:**
No Minimum Order

**SIZING OPTIONS:**
Standard and Special Sizes Available (See reverse side for details.)

**CLASSIFICATION:**
UL Classified 900

**MAX TEMP:**
HIA – 275 Degrees F
HIG – 325 Degrees F
HIS – 900 Degrees F

Due to continuing research and development, we reserve the right to make modifications to any product.
# HI SERIES ~ Filter Selection Chart

<table>
<thead>
<tr>
<th>CONSTRUCTION</th>
<th>MODEL</th>
<th>HIA</th>
<th>HIG</th>
<th>HIS</th>
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<tbody>
<tr>
<td>Face Grids</td>
<td>28 gauge galvanized steel</td>
<td>28 gauge galvanized steel</td>
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<td>Aluminum screen wire</td>
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<td>Face Grids</td>
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<tr>
<td>Application</td>
<td>Airborne particulate and coolant mist</td>
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<tr>
<td>Max Operating Temperature</td>
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<tr>
<td>Washability</td>
<td>Frequent and moderate</td>
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<table>
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<tr>
<th>STANDARD SIZES</th>
<th>Nominal* Dimensions (H x W x T)</th>
<th>Part Number</th>
<th>Carton Quantity</th>
<th>Carton Weight</th>
<th>Part Number</th>
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## HI SERIES NOTES

**SIZING INFORMATION**

* What does Nominal mean? Standard size filters are of a nominal dimension. This means the height and width dimensions are undercut by a certain amount. See below for the exact amount of undercut for each dimension.

** Filter Thickness: ½” is exact, nominal 1” (actual 7/8”), nominal 2” (actual 1-3/4”) and nominal 4” (actual 3-3/4”).

1. **Standard** nominal filters are ¼” undercut on the height and width dimensions.
2. **Special** size filters are made to the exact height and width dimensions provided.
3. **Standard and Special** size filters are available in thicknesses of ½” exact (HIA only), nominal 1” (7/8” actual), nominal 2” (Actual 1-3/4”) and nominal 4” (3-3/4”).
4. Tolerance height and width: ± 1/8”

**CLASSIFICATION AND TEST NOTES**

1. UL Classified 900
2. Rated Airflow: 350 fpm
3. Recommended Airflow Range: 300 – 500 fpm.
4. Dust Holding Capacity:
   a. 1” thick: 68 grams per square foot
   b. 2” thick: 97 grams per square foot
5. Average Arrestance:
   a. 1” thick: 43% at rated airflow
   b. 2” thick: 53% at rated airflow
6. Recommended final resistance is .50” W.G.
7. Independent test report available for performance details

**INSTALLATION CONSIDERATIONS**

1. The HI Series filter may be installed in HVAC systems vertically or horizontally.

**ADDITIONAL INFORMATION**

1. The ½” exact filter uses an .025” thick aluminum frame.
2. The ½” exact filter is 4-ply.
3. The nominal 1” (actual 7/8”) filter is 5-ply.
4. The nominal 2” (actual 1-3/4”) filter is 7-ply.