Series STL
Model STLH-A08
Sand Louver
AMCA Licensed

Design Features

* High performance sand trap louver has 53.6 % free area
* The static pressure is less than 2 Pa @ 1 m/s.
* Frame is recessed in wall or flanged as optional.
* Double stage Y-shaped profile blades.
* Weight per one square meter is approx. 26 k.g.
* Face of louver is free from all fasteners.

Standard Construction

Frame: 8" (203) x 0.08" (2) formed aluminum, 6063-T6
Blades: .062" (1.6) extruded aluminum, 6063-T6
Vertically mounted Sightproof Y-shaped profiles.
Screen: Bird Screen 0.5" (12.7) x 0.059" (1.5) wire diameter,
with a removable frame on the interior of the louver.
Screen adds approximately 0.3" (12.7) to the depth of louver.

Finish: Mill as standard.

Min. size: 12" (305)W x 12" (305)H
Max. size: 96" (2438)W x 96" (2438)H.
Larger sizes will require field assembly of smaller sections.

Installation: This louver will be recessed in the wall opening
since it is being furnished with a sloped sill, for
which the sand will get ejected to outside.

Note: All dimensions shown in inches and in millimeters.

Optional Construction

☐ Flange frame is (1.50" (38)
☐ .025" (16) aluminum filter in frame as std.
☐ Sub-frame.
☐ Hinged sub-frame.
☐ Sill extension.
☐ Security bars:
  ☐ Front
  ☐ Back
☐ Optional bird and insect screen
☐ Blank off panel:
  ☐ Aluminum, non insulated
  ☐ Aluminum, insulated
☐ Optional finishes: see finishes chart.

Consult Energy Industrial Co. for Other Special Requirements.

"Energy Industrial Co. certifies that the STLH-A08 shown herein is licensed to bear
the AMCA Seal. The ratings shown are based on tests and procedures performed
in accordance with AMCA Publication 511 and comply with the requirements of
AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to wind
driven sand and air performance ratings only."
**Air Performance Graph**

- Pressure Drop Data applies to test unit size 48" x 48" (1219 x 1219) mm only.
- Reported Pressure Drop is for intake mode only.
- Performance data does not include the effects of bird screen or filter.
- All Performance shown is at standard air density of 0.075 lb/ft³ (1.2 kg/m³).

**Airflow Performance**

<table>
<thead>
<tr>
<th>Airflow m³/s</th>
<th>Free Area Velocity m/s</th>
<th>Pressure Drop</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.79</td>
<td>1.00</td>
<td>1.55</td>
</tr>
<tr>
<td>1.58</td>
<td>2.00</td>
<td>14.20</td>
</tr>
<tr>
<td>1.97</td>
<td>2.50</td>
<td>35.00</td>
</tr>
<tr>
<td>2.37</td>
<td>3.00</td>
<td>62.2</td>
</tr>
<tr>
<td>2.77</td>
<td>3.50</td>
<td>78.00</td>
</tr>
</tbody>
</table>

**Sand Rejection Notes:**
- Effectiveness is 82% at 1.0 m/s draw velocity.
- Sand is blown at louvre at 20-25 m/s in the sand injection tube.
- The sand grading used is between 76 - 699 micron as per AMCA 500 L Annex H, Table 8.
- Based on this data, Energy Co. recommend 1.0 m/s draw velocity is the maximum used when sizing up this louvre.

**Sand Rejection Effectiveness**

<table>
<thead>
<tr>
<th>Airflow m³/s</th>
<th>Free Area Velocity m/s</th>
<th>Percentage %</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.62</td>
<td>1.04</td>
<td>81.90</td>
<td>B</td>
</tr>
<tr>
<td>1.98</td>
<td>2.50</td>
<td>41.54</td>
<td>D</td>
</tr>
<tr>
<td>2.29</td>
<td>2.90</td>
<td>36.87</td>
<td>D</td>
</tr>
<tr>
<td>3.14</td>
<td>3.98</td>
<td>25.84</td>
<td>D</td>
</tr>
<tr>
<td>3.65</td>
<td>4.62</td>
<td>23.54</td>
<td>D</td>
</tr>
</tbody>
</table>

"Energy Industrial Co. certifies that the STLH-A08 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to wind driven sand and air performance ratings only."
FREE AREA GUIDE FOR STLH-A08
(Free Area in ft² and m²)

<table>
<thead>
<tr>
<th>Height in Inches (Meters)</th>
<th>12</th>
<th>18</th>
<th>24</th>
<th>30</th>
<th>36</th>
<th>42</th>
<th>48</th>
<th>54</th>
<th>60</th>
<th>66</th>
<th>72</th>
<th>78</th>
<th>84</th>
<th>90</th>
<th>96</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.30</td>
<td>0.43</td>
<td>0.65</td>
<td>0.82</td>
<td>1.04</td>
<td>1.25</td>
<td>1.47</td>
<td>1.68</td>
<td>1.83</td>
<td>2.12</td>
<td>2.33</td>
<td>2.55</td>
<td>2.76</td>
<td>2.98</td>
<td>3.20</td>
<td>3.41</td>
</tr>
<tr>
<td>0.40</td>
<td>0.60</td>
<td>0.91</td>
<td>1.22</td>
<td>1.53</td>
<td>1.84</td>
<td>2.15</td>
<td>2.46</td>
<td>2.77</td>
<td>3.08</td>
<td>3.39</td>
<td>3.70</td>
<td>3.91</td>
<td>4.12</td>
<td>4.43</td>
<td>4.64</td>
</tr>
<tr>
<td>0.50</td>
<td>0.87</td>
<td>1.29</td>
<td>1.71</td>
<td>2.13</td>
<td>2.54</td>
<td>2.95</td>
<td>3.36</td>
<td>3.77</td>
<td>4.18</td>
<td>4.59</td>
<td>4.99</td>
<td>5.40</td>
<td>5.81</td>
<td>6.22</td>
<td>6.63</td>
</tr>
<tr>
<td>0.60</td>
<td>1.14</td>
<td>1.66</td>
<td>2.19</td>
<td>2.71</td>
<td>3.22</td>
<td>3.73</td>
<td>4.24</td>
<td>4.75</td>
<td>5.26</td>
<td>5.77</td>
<td>6.28</td>
<td>6.79</td>
<td>7.30</td>
<td>7.81</td>
<td>8.32</td>
</tr>
<tr>
<td>0.70</td>
<td>1.41</td>
<td>2.05</td>
<td>2.68</td>
<td>3.31</td>
<td>3.93</td>
<td>4.55</td>
<td>5.17</td>
<td>5.79</td>
<td>6.41</td>
<td>7.03</td>
<td>7.65</td>
<td>8.27</td>
<td>8.89</td>
<td>9.51</td>
<td>10.13</td>
</tr>
<tr>
<td>0.80</td>
<td>1.68</td>
<td>2.44</td>
<td>3.17</td>
<td>3.91</td>
<td>4.64</td>
<td>5.37</td>
<td>6.10</td>
<td>6.83</td>
<td>7.56</td>
<td>8.29</td>
<td>9.02</td>
<td>9.75</td>
<td>10.48</td>
<td>11.21</td>
<td>11.94</td>
</tr>
</tbody>
</table>

Dimensional Drawings

STLHS- Screen  STLHFS- Flanged/SCRN  STLHF- Flanged  STLHFF- Flanged & FILTER

"Energy Industrial Co. certifies that the STLH-A08 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to wind driven sand and air performance ratings only."