Air Boss® Model 38
Industrial Mist Precipitator
Air Boss® Model 38

Under normal mechanical and thermal stresses, petroleum based and synthetic oils in lubricating systems break down into fine mist and smoke particles. These particles, under pressure, escape through bearing seals to breather vents where they are exhausted. These airborne oil mists can create health and fire hazards, violate EPA/OSHA regulations, and contribute to the fouling of relays and other electronic components. Direct venting to the atmosphere is costly and may violate EPA/OSHA regulations.

Because of the predominance of submicron size particles, oil mists generally cannot be effectively controlled by ordinary straining type filters or centrifugal collectors. High efficiency mist eliminators create excessive back pressure. TRION’s Model 38 is up to 99% efficient, nonselective in the size of particles collected, contains no moving parts, and in most applications, is virtually self-cleaning.

Features & Benefits

• Removes Fumes and Oil Mist from Discharged Air: Helps maintain a cleaner work environment and reduces costly maintenance cleanup of oily accumulations.
• Spiked Ionizers: No ionizing wires to replace, which reduces maintenance replacement costs.
• Low and Constant Static Pressure: Insures machinery performance is keeping constant without excessive static pressure buildup, common in media filters.
• Shock: Designed to meet the requirements of MIL-S-901D Grade A, Class I, High Impact Shock.
• Vibration: Designed to meet the requirements of MIL-STD-167 Environmental Vibration.
• EMI: Designed to meet the requirements of MIL-STD-461 Electromagnetic Interference.
• Easily Installed and Maintained: Installs within 30 minutes to 1 hour!

Applications

• Gas Turbines
• Vacuum Pumps
• Auxiliary Engines
• Diesel Engines
• Compressors
• Storage Tanks

Principle of Operation

With an electronic air cleaner, air is drawn into the unit and passes through a pre-filter to capture large particles. The airborne particles then pass through an electronic field and receive an electrical charge. The charged particles move into a collector section where each alternate plate is charged with the same polarity as the particles and repels them; the other set of plates is grounded, which attracts and collects the particles. The remaining air, cleaned up to 95% of its impurities, is then returned to the plant or building.
NOTE: * Service Access

**Dimensional References**

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 CFM</td>
<td>13 ¾”</td>
<td>10 ¼”</td>
<td>45 ¼”</td>
<td>13 ¾”</td>
<td>12”</td>
<td>50 ¼”</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>300 CFM</td>
<td>13 ¾”</td>
<td>15 25/32”</td>
<td>45 ¼”</td>
<td>13 ¾”</td>
<td>12”</td>
<td>50 ¼”</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>600 CFM</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>12”</td>
<td>-</td>
<td>12 ¼”</td>
<td>28 1/8”</td>
<td>68”</td>
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**Connection Variations**

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>Inlet and/or Outlet</th>
<th>Outlet</th>
<th>Free Air Discharge</th>
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<tbody>
<tr>
<td>2”</td>
<td>3”</td>
<td>4”</td>
<td>6” 8”</td>
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<tr>
<td>150 CFM</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes No No Yes</td>
</tr>
<tr>
<td>300 CFM</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes No No Yes</td>
</tr>
<tr>
<td>600 CFM</td>
<td>-</td>
<td>-</td>
<td>Yes No</td>
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**Unit Weights**

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>Base Unit Weight</th>
<th>Added Weight for Each Flange</th>
<th>Added Weight for Each Pipe</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2” 3” 4” 6”</td>
<td>2” 3” 4” 6”</td>
</tr>
<tr>
<td>150 CFM</td>
<td>135 lbs</td>
<td>6 lbs 10 lbs 15 lbs</td>
<td>3 lbs 6 lbs 8 lbs</td>
</tr>
<tr>
<td>300 CFM</td>
<td>150 lbs</td>
<td>6 lbs 10 lbs 15 lbs</td>
<td>24 lbs 3 lbs 6 lbs 8 lbs 14 lbs</td>
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<tr>
<td>600 CFM</td>
<td>300 lbs</td>
<td>- - - 24 lbs</td>
<td>- - - 14 lbs</td>
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</table>
Our Air Boss® Model 38 comes with a one-year limited warranty.

Learn more about other TRION industrial products by contacting your local TRION representative or by visiting us on the web at www.troniaq.com.

T-Series Electronic Air Cleaner

Mini M.E. Mist Collector

Proudly Designed, Engineered, and Manufactured in the USA.*

TRION®

Indoor Air Quality

To help serve you better, please contact us at:
800-884-0002 (tel)
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