Customer / Project: 10 Ton 24x20  4000cfm

**Duct Data**
- Duct Width: 24 in
- Duct Height: 20 in
- Airflow: 4000 CFM
- Air Velocity: 1200 ft/min
- Duct Wall Material: Galvanized duct - rough

**UVGI Lamp Data**
- Model: TUVC-ADS-224D-HO
- Number of Units: 1
- Setup type for multiple units: n/a
- Number of Lamps per Unit: 2
- Lamp Length: 609 mm

**Irradiation Data**
- Avg germicidal UV dose delivered: 801 µJ/cm²
- Air temperature increase: 0.0 °C
- Exposure time: 0.08 s

**Inactivation (sterilization) rates after 18000 hours**

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Minimum</th>
<th>Average</th>
<th>LOG Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coronavirus</td>
<td>&gt; 99.99%</td>
<td>&gt; 99.99%</td>
<td>&gt; 4</td>
</tr>
<tr>
<td>Tuberculosis</td>
<td>99.77%</td>
<td>&gt; 99.99%</td>
<td>4</td>
</tr>
<tr>
<td>Influenza A virus</td>
<td>96.63%</td>
<td>99.67%</td>
<td>2</td>
</tr>
<tr>
<td>Adenovirus</td>
<td>79.21%</td>
<td>92.89%</td>
<td>1</td>
</tr>
</tbody>
</table>

**UVC dose inside the duct after 18000 hours (mJ/cm²)**

- 2.3 - 2.5
- 2.0 - 2.3
- 1.8 - 2.0
- 1.5 - 1.8
- 1.3 - 1.5
- 1.0 - 1.3
- .8 - 1.0
- .5 - .8
- .3 - .5
- .0 - .3

**Note:** 4-log inactivation equals 99.99%. Higher than 4-log inactivation are achieved in real-life scenarios but the exact predictions/model would be inaccurate because the UV disinfection analysis utilises single stage decay data and equations.

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