**Duct Data**
- Duct Width: 44 in
- Duct Height: 38 in
- Airflow: 20000 CFM
- Air Velocity: 1722.49 ft/min
- Duct Wall Material: Galvanized duct - rough

**UVGI Lamp Data**
- Model: TUVC-ADS-260D-HO
- Number of Units: 1
- Setup type for multiple units: n/a
- Number of Lamps per Unit: 2
- Lamp Length: 1554 mm
- UVGI Power per Lamp: 54 W
- Electrical Power per Lamp: 130 W
- Electrical Power per Module: 260 W
- Electrical Power (Total): 260 W
- Teflon coating: No

**Irradiation Data**
- Avg germicidal UV dose delivered: 992 µJ/cm²
- Air temperature increase: 0.0 °C
- Exposure time: 0.17 s

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

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Recirculation (6 passes)</th>
<th>Minimum</th>
<th>Average</th>
<th>LOG Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coronavirus</td>
<td></td>
<td>&gt; 99.99%</td>
<td>&gt; 99.99%</td>
<td>&gt; 4</td>
</tr>
<tr>
<td>Tuberculosis</td>
<td></td>
<td>99.95%</td>
<td>&gt; 99.99%</td>
<td>&gt; 4</td>
</tr>
<tr>
<td>Influenza A virus</td>
<td></td>
<td>98.54%</td>
<td>99.91%</td>
<td>3</td>
</tr>
<tr>
<td>Adenovirus</td>
<td></td>
<td>85.88%</td>
<td>96.21%</td>
<td>1</td>
</tr>
</tbody>
</table>

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

[Graph showing UVC dose distribution]

**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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