**Duct Data**

- **Duct Width**: 20 in
- **Duct Height**: 14 in
- **Airflow**: 2000 CFM
- **Air Velocity**: 1028.57 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
- **UVGI Power per Lamp**: 19 W
- **Electrical Power per Lamp**: 57 W
- **Electrical Power per Module**: 114 W
- **Electrical Power (Total)**: 114 W
- **Teflon coating**: No

**Irradiation Data**

- **Avg germicidal UV dose delivered**: 1254 µJ/cm²
- **Air temperature increase**: 0.1 °C
- **Exposure time**: 0.10 s

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

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Recirculation (6 passes)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
<td>Average</td>
<td>LOG Average</td>
</tr>
<tr>
<td>Coronavirus</td>
<td>&gt; 99.99%</td>
<td>&gt; 99.99%</td>
<td>&gt; 4</td>
</tr>
<tr>
<td>Tuberculosis</td>
<td>&gt; 99.99%</td>
<td>&gt; 99.99%</td>
<td>&gt; 4</td>
</tr>
<tr>
<td>Influenza A virus</td>
<td>99.61%</td>
<td>99.99%</td>
<td>3</td>
</tr>
<tr>
<td>Adenovirus</td>
<td>92.38%</td>
<td>98.41%</td>
<td>1</td>
</tr>
</tbody>
</table>

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

**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.

**Disclaimer:** The Information and the analysis of this report is proprietary and confidential. Due to the fact that the data used in this analysis is supplied by the end user who takes responsibility for its accuracy, FreshAire UV does not make and expressly disclaims any representations or warranties as to the completeness, accuracy or usefulness of the report. FreshAire UV does not warrant that the use of such information will not infringe any third-party rights, nor does Freshaire UV assume any liability for damages or costs of any kind that may result from use of such information. Data contained in this BlueCalc sizing is subject to change without notice.