

# **BLUECALC**<sup>™</sup>

AIR DISINFECTION ANALYSIS - REPORT

Customer / Project:

15 Ton 26x24 6000cfm SINGLE

Setup type for multiple units

Number of Lamps per Unit

**Electrical Power per Lamp** 

**Electrical Power per Module** 

**UVGI** Power per Lamp

TUVC-ADS-260H-HO

1

6

1554 mm

54 W

130 W

780 W 780 W No

n/a

**UVGI Lamp Data** 

Number of Units

Lamp Length

Model

## **Duct Data**

Duct Width	26 in
Duct Height	24 in
Airflow	6000 CFM
Air Velocity	1384.62 ft/min
Duct Wall Material	Galvanized duct - rough

### **Irradiation Data**

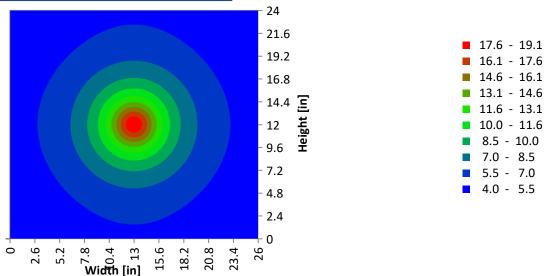
Avg germicidal UV dose delivered	6282 μJ/cm2
Air temperature increase	0.2 °C
Exposure time	0.21 s

## Inactivation (steriliza

perature increase	0.2 °C Electrical Power (Total)						
re time	0.21 s	Teflon co	Teflon coating				
on (sterilization) rates after 18000 hours							
Mieroergeniem	Single Pass						
		Single Pass					
Microorganism	Minimum	Single Pass Average	LOG Average				

Coronavirus	> 99.99%	> 99.99%	> 4
Tuberculosis	99.98%	> 99.99%	> 4
Influenza A virus	99.19%	99.94%	3
Adenovirus	89.28%	96.84%	1

# UVC dose inside the duct after 18000 hours (mJ/cm<sup>2</sup>)



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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