



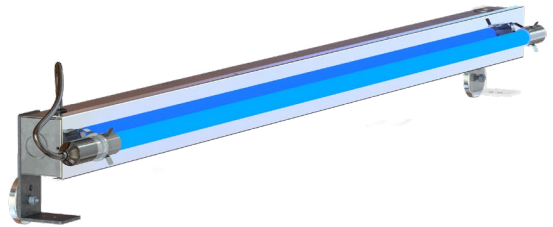
A CSW Industrials Company

PRODUCT DATA SHEET

DUST FREE® XL  
Germicidal UV

Description

The Bio-Fighter® XL is a high-performance UV-C system tailored for large commercial HVAC coils, featuring lamps up to five feet long. Its polished aluminum reflector and robust T6 HO lamps ensure efficient germicidal UV light distribution. Designed to resist moisture and high humidity, the XL offers multiple mounting options for easy installation and complies with UL 2998 no-ozone standards.



Characteristics | Features

- **Versatility:** Its extended lamp length makes it suitable for large commercial HVAC systems with lamps up to five feet long.
- **Effective:** A polished aluminum reflector enhances the distribution of germicidal UV light across HVAC coils.
- **Weather Resistant:** Designed to operate effectively in harsh environments, ensuring durability and compliance with UL 2998 no-ozone standards.

Packaging

Code	Description	Qty. per Case	Lbs. per Case	Cubic Ft per Case
DF06170	UV unit Commercial XL-21 120v	1	12.15	1.51
DF06172	UV unit Commercial XL-33 120v	1	13.55	1.51
DF06174	UV unit Commercial XL-45 120v	1	14.90	1.51
DF06176	UV unit Commercial XL-61 120v	1	16.50	1.96
DF06178	UV unit Commercial XL-21 230V	1	12.15	1.51
DF06188	UV unit Commercial XL-45 230V	1	11.06	1.50
DF06189	UV unit Commercial XL-61 230V	1	16.50	1.96

Replacement parts				
Code	Description	Qty. per Case	Lbs. per Case	Cubic Ft per Case
DF06180	XL lamp single Replacement 21"	1	0.85	0.05
DF06182	XL lamp single Replacement 33"	1	1.00	0.08
DF06184	XL lamp single Replacement 45"	1	1.30	0.11
DF06186	XL lamp single Replacement 61"	1	2.80	1.96
DF06192	Replacement Ballast kit XL series 120v	1	1.10	0.06
DF06195	Replacement Ballast Kit XL series 230v	1	1.15	0.06

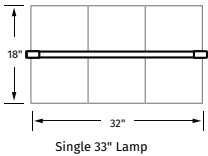
**Installation**

Determine the dimensions of the coils or area to be irradiated.  
Use the Coil Sizing Reference to determine the number of lamps needed for proper coverage.  
Larger coils may require multiple Bio-Fighter kits.

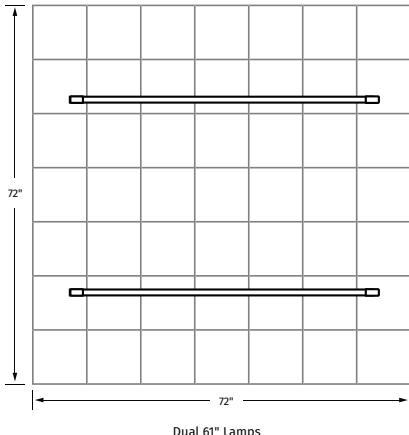
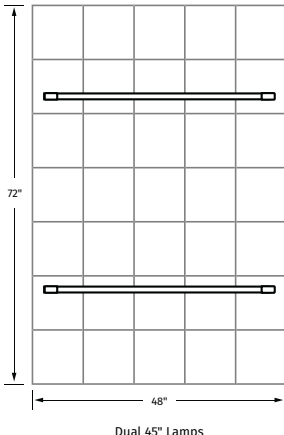
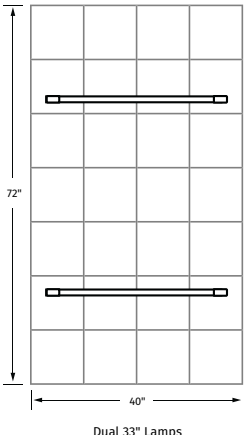
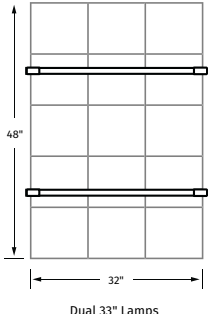
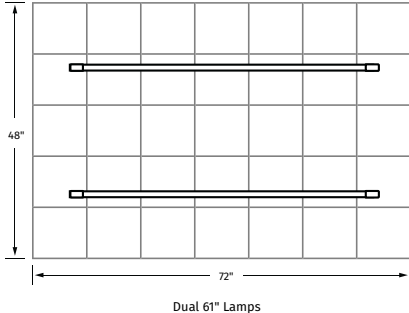
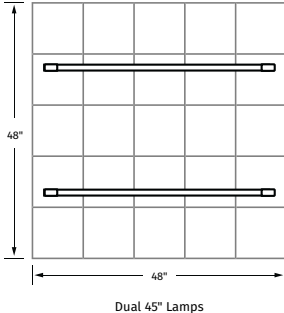
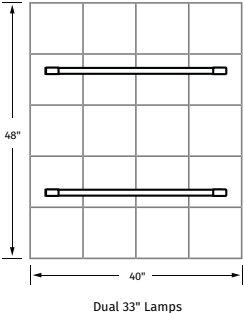
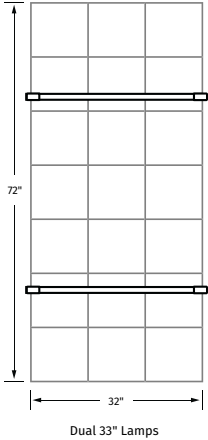
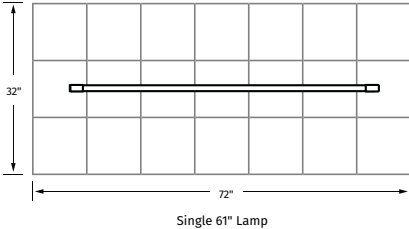
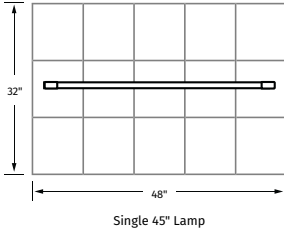
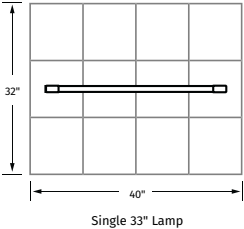
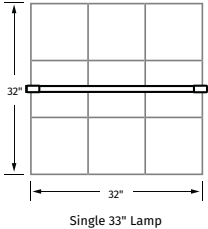
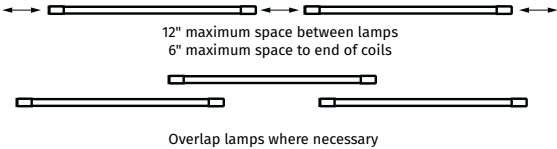
**UV Lamp Configuration Guidelines**

The distance between UV lamp(s) and the irradiated surface should be between 6"-18" is optimal.  
The distance between stacked UV lamps should not exceed 35".  
The distance between end to end UV lamps should not exceed 12".  
The distance of UV lamp ends to the edge of irradiated surface should not exceed 6".  
One single lamp can cover 36" of coil height, 18" above and 18" below. Each lamp also covers an additional 6" of width beyond the ends of the lamp, 3" on either side of the lamp.

**Note:** The configurations shown here represent typical UVC coverage for surface treatment of coil surfaces. ASHRAE recommends 50-100 micro-watts / sq. cm of UV-C intensity for HVAC surface treatment. Air treatment requires 600 to 1500 micro joules / sq. cm for air treatment which more lamps than surface treatment. Contact Dust Free Engineering for air treatment design guidance.



**LAMP SPACING**



# DUST FREE® XL

Germicidal UV

## Specifications

<b>Model</b>	XL 21" XL 33" XL 45" XL 61"
<b>Size and Weight</b>	Unit: XL 21": 3.375" H x 2.5" W x 24" L XL 33": 3.375" H x 2.5" W x 36" L XL 45": 3.375" H x 2.5" W x 48" L XL 61": 3.375" H x 2.5" W x 64" L
<b>Electrical</b>	120V, 50/60Hz, 1PH. Optional 230V. Optional 277V, 50/60Hz, 1PH
<b>Ozone</b>	UL 2998 validated no ozone. Meets California ozone emissions limit: CARB certified
<b>UV-C Output</b> ( $\mu\text{w}/\text{cm}^2$ )	XL 21" – 800 XL 33" – 880 XL 45" – 890 XL 61" – 850
<b>Lamp Life</b>	9,000 hour
<b>Temperature Rating</b>	45° to 150° F (Outside of duct)
<b>Warranty</b>	3-yr limited. 1-yr lamp



ZERO OZONE EMISSIONS - MEASURED OZONE EMISSIONS FROM BIO-FIGHTER XL DURING USE PHASE DOES NOT EXCEED 0.005 PPM AS TESTED BY UL 867.  
UL.COM/ECV

## Limited Warranty



For more information on our product limited warranty, visit [RectorSeal.com](http://RectorSeal.com)

Manufactured by

**RectorSeal, LLC**

**2601 Spenwick Drive • Houston, TX 77055, USA • 800-231-3345 • Fax 800-441-0051 • [rectorseal.com](http://rectorseal.com)**

A CSW Industrials Company. RectorSeal, the logos and other trademarks are property of RectorSeal, LLC, its affiliates or its licensors and are protected by copyright, trademark and other intellectual property laws, and may not be used without permission. RectorSeal reserves the right to change specifications without prior notice. ©2024 RectorSeal. All rights reserved. R51180-0724