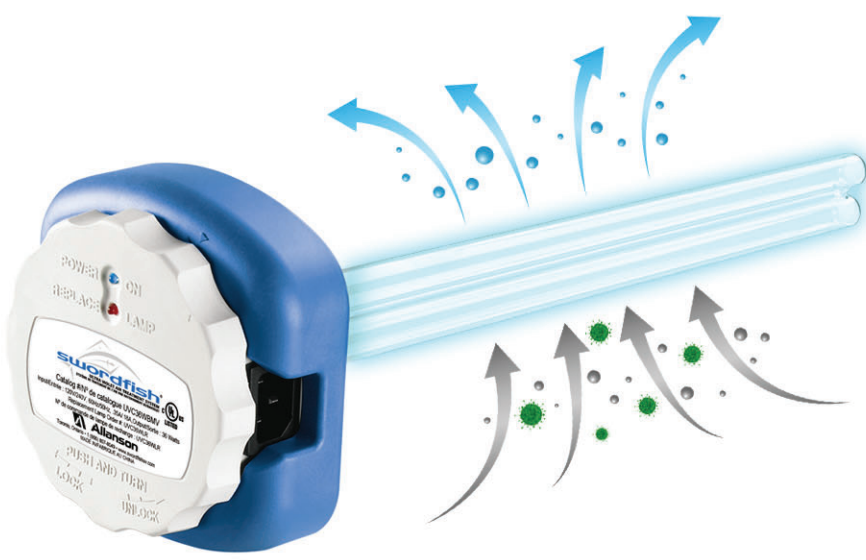




Learn more about our products at:  
[www.swordfishuv.com](http://www.swordfishuv.com)

# Protect your loved ones from airborne pathogens.

**Want to improve your indoor air quality?** Our day-to-day health and well being is affected by the air we breathe and the surfaces we touch. Recently, indoor air quality has become a more pressing health and safety issue. With the help of ultraviolet (UV) technology, Allanson's Swordfish UV-C Air Treatment System has the power to purify air and deactivate micro-organisms, rendering them harmless.



- PRODUCT FEATURES:**
- » Safety: enclosed system prevents accidental exposure to UV-C light
  - » Quick & easy installation
  - » Mounts onto existing forced air duct
  - » Ozone free lamps
  - » Energy efficient electronic ballast
  - » Built-in lamp replacement indicator



inactivates up to **99.9%** of airborne pathogens



Maximum exposure for 360° disinfection



Disinfects germs, viruses & bacteria



Provides clean fresh air for entire home



Safe to use & improved energy efficiency

# Did you know?

UV-C light in the form of germicidal lamps has been used since the early 1900s to inactivate the types of microorganisms that typically worsens indoor air quality (IAQ).

The History of Ultraviolet Germicidal Irradiation for Air Disinfection –  
Nicholas G. Reed, 2010 Jan-Feb; 125(1): 15–27.



## Why Swordfish®?

An average human takes 20,000+ breaths per day. Because most of our time is spent indoors, it is crucial that the air we breathe is safe and clean. We have built the perfect product that can provide you the difference you need. Ray Tracing test results show that Allanson's Swordfish UV-C Air Treatment System is an effective solution to providing clean air - which is also a bonus for allergy sufferers.



### Safe & Highly Effective

Highly effective interlock design prevents accidental direct UV exposure. The lamp does not generate ozone while inactivating up to 99.9% of pathogens.



### Easy Installation

Swordfish® is designed to ensure a safe and quick installation process allowing end users to have a fully operating system in less than 15 minutes.



### Dual-functionality

Installation of unit above the AC coil provides both surface disinfection and air purification.



### Cost Effective

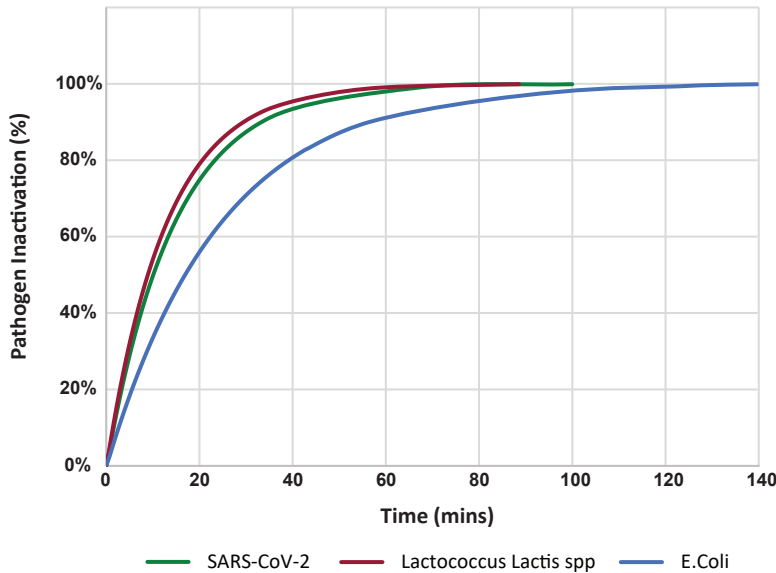
Improves airflow by preventing organic material & biofilm growth from AC coils, ultimately reducing energy usage & maintenance costs.

# The Power to Protect

## What is UV-C light?

UV-C is part of the ultraviolet spectrum that can inactivate pathogens like bacteria and viruses. Generally known as germicidal UV, UV-C utilizes specific wavelengths of the ultraviolet spectrum, typically between 200 to 280 nanometers to irradiate airborne pathogens. UV-C radiation is a recognized disinfectant for air, surfaces, and objects.

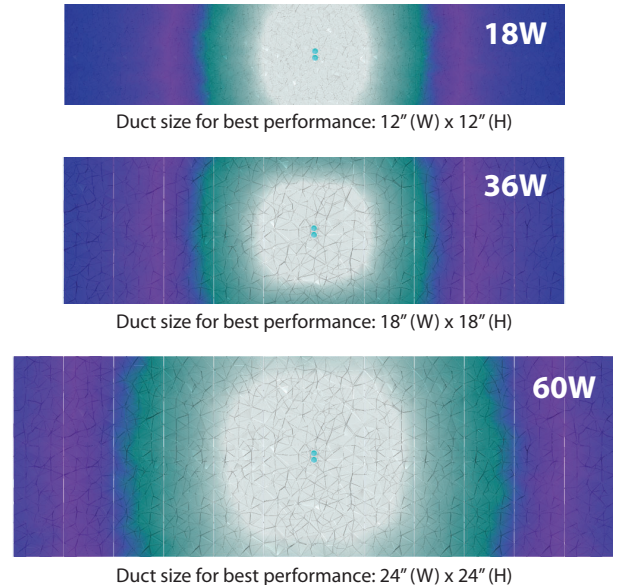
**Swordfish 36W Efficacy Rate, 2000 sq.ft.**



**Figure 1: Pathogen inactivation rate using 36W lamp**

Pathogen Inactivation simulation completed by UV Lamp Consulting using Audodesk CFD

Lamp used: Swordfish 36W; Duct size: 24" (W) x 24" (H);  
Furnace Air Velocity: 1,250 CFM with recirculation mode;  
Home Area: 2,000 sq. ft. or 16,000 cubic ft.



**Figure 2: Fluence (UV-C intensity) field for Swordfish UV-C 18W, 36W & 60W lamps**

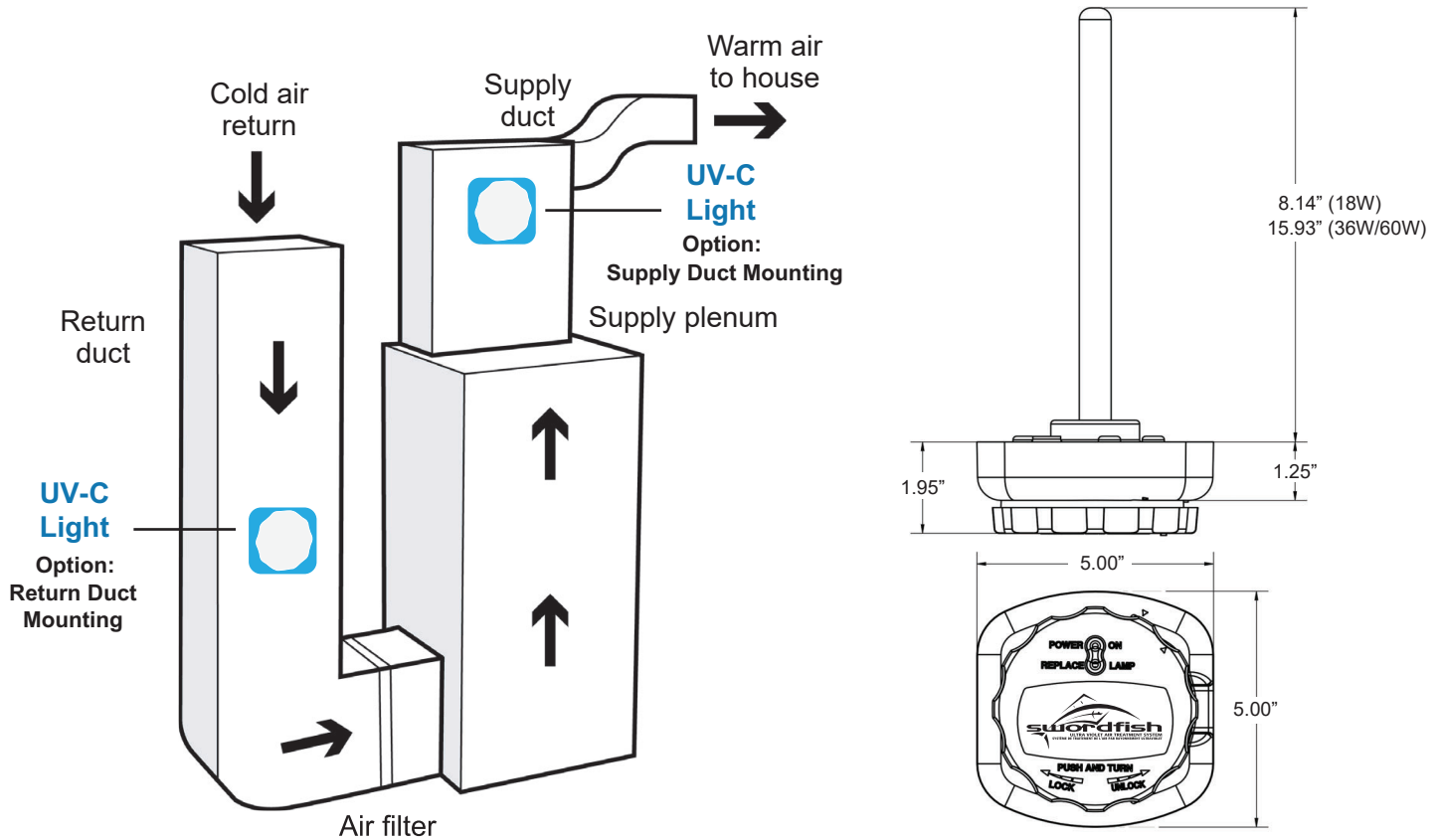
PATHOGEN	LAMP		AREA COVERAGE* (SQ. FT.)	PATHOGEN INACTIVATION RATE	REQUIRED TIME (MINS)
	LENGTH (IN)	POWER (W)			
Lactococcus Lactis spp	8.58	18	1,000	99.9%	60
Escherichia coli (ATCC 8739)	8.58	18	1,000	92.6%	60
SARS-COV-2	8.58	18	1,000	98.9%	60
Lactococcus Lactis spp	15.93	36	2,000	93.1%	60
Escherichia coli (ATCC 8739)	15.93	36	2,000	82.8%	60
SARS-COV-2	15.93	36	2,000	90.6%	60
Lactococcus Lactis spp	15.93	60	2,500	84.7%	60
Escherichia coli (ATCC 8739)	15.93	60	2,500	79.7%	60
SARS-COV-2	15.93	60	2,500	84.0%	60

\* Area Coverage with 8' ceiling

Lactococcus Lactis spp, D90 <1.5 mJ cm-2  
 Duwat P, et al. (1997) Characterization of Lactococcus Lactis UV-Sensitive Mutants [...]. Journal of Microbiology, DOI: 10.1128/jb.179.14.4473-4479.1997  
 Lu G, Li C, Liu P (2011) UV inactivation of milk-related microorganisms [...]. Eur. Food. Res. Tech. DOI: 10.1007/s00217-011-1498-5  
 Escherichia coli (ATCC 8739), D90 = 8 - 10 mJ cm-2  
 Green A, et al. (2018) Inactivation of Escherichia coli, Listeria and Salmonella [...]. Innovative Food Science and Emerging Tech. DOI: 10.1016/j.ifset.2018.03.019  
 Abshire R & Dunton H (1981) Resistance of Selected Strains of Pseudomonas aeruginosa to Low-Intensity Ultraviolet Radiation. DOI: 10.1128/AEM.41.6.1419-1423.1981  
 SARS-CoV-2 (COVID-19), D90 < 5 mJ cm-2  
 Lawal O, Simons R, Herman A, & Pagan J (2021) <https://uvsolutionsmag.com/articles/2021/sars-cov-2-dose-response-research-update>



# Specifications



PRODUCT SPECIFICATION	UVC18WBMV	UVC36WBMV	UVC60WBMV
INPUT SUPPLY VOLTAGE (V)	120-240	120-240	120-240
INPUT SUPPLY FREQUENCY (Hz)	50-60	50-60	50-60
POWER (W)	18	36	60
PRIMARY AMPERES	0.18A (120V) / 0.10A (240V)	0.35A (120V) / 0.18A (240V)	0.50A (120V) / 0.25A (240V)
AMBIENT TEMPERATURE (°C)	0-40	0-40	0-40
CASE MAXIMUM TEMPERATURE (°C)	75	75	75
POWERHEAD DIMENSIONS	4.25" (D) x 2.0" (H)	4.25" (D) x 2.0" (H)	4.25" (D) x 2.0" (H)
LAMP CHANGER REMINDER	Yes	Yes	Yes
LAMP OUT INDICATOR	Yes	Yes	Yes
BALLAST SHUT DOWN PROTECTION	EOL / OC	EOL / OC	EOL / OC
APPROVALS	UL / cUL	UL / cUL	UL / cUL

## Order Info:

UV-C WHOLE HOME PURIFICATION SYSTEM	
PART #	DESCRIPTION
UVC18WBMV	Swordfish UV-C Air Treatment System, 18W, 120-240V
UVC36WBMV	Swordfish UV-C Air Treatment System, 36W, 120-240V
UVC60WBMV	Swordfish UV-C Air Treatment System, 60W, 120-240V

REPLACEMENT LAMPS	
PART #	DESCRIPTION
UVC18WLR	UV Replacement Lamp 18W for UV-C Air Treatment System
UVC36WLR	UV Replacement Lamp 36W for UV-C Air Treatment System
UVC60WLR	UV Replacement Lamp 60W for UV-C Air Treatment System

\*240V units will require a different power cord