energy harness
LED LIGHTING SOLUTIONS

Active Airflow UV-C Fixture

Patent Pending

Features

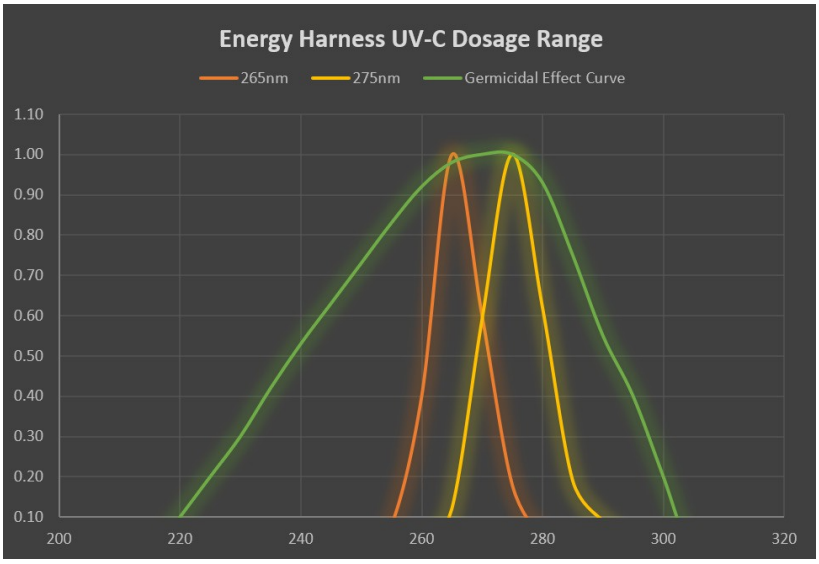
- High dosage short-wave UV-C applied to airflow for controlled duration period
- Solid-state LED technology to deliver precise UV-C reliability
- Exact nanometer wavelengths are used to cover germicidal vulnerability spectrum
- Air circulation up to 131 CFM can help to clean room or area air many times per hour
- Standard 2'x 4' fixture size fits into any commercial ceiling grid configuration
- Easy installation compatible with all standard 120-277VAC electrical systems
- Replaceable LED modules allow for years of reliable service with the same fixture
- Filters are easily changed or cleaned to increase longevity and efficiency

The Energy Harness® Active-Airflow fixture is designed to eliminate airborne pathogens. It can be installed into standard commercial ceiling grids located in most office buildings, schools and medical facilities

Research indicates that most viruses and bacteria are spread by breathing airborne particles. Studies conclusively show that ultraviolet light (UV), particularly UV-C spectrum (265-280nm) is especially effective in eliminating these pathogens

The Active-Airflow fixture circulates room air many times per hour through encapsulated UV-C light eliminating pathogens while keeping humans safe. Built with advanced solid-state LED technology, it delivers precise UV-C dosages for effective, quiet and reliable operation

By applying LED technology to the science of how ultraviolet light affects micro-organisms, we have developed a system to effectively protect indoor areas, and the people in them, against airborne pathogens



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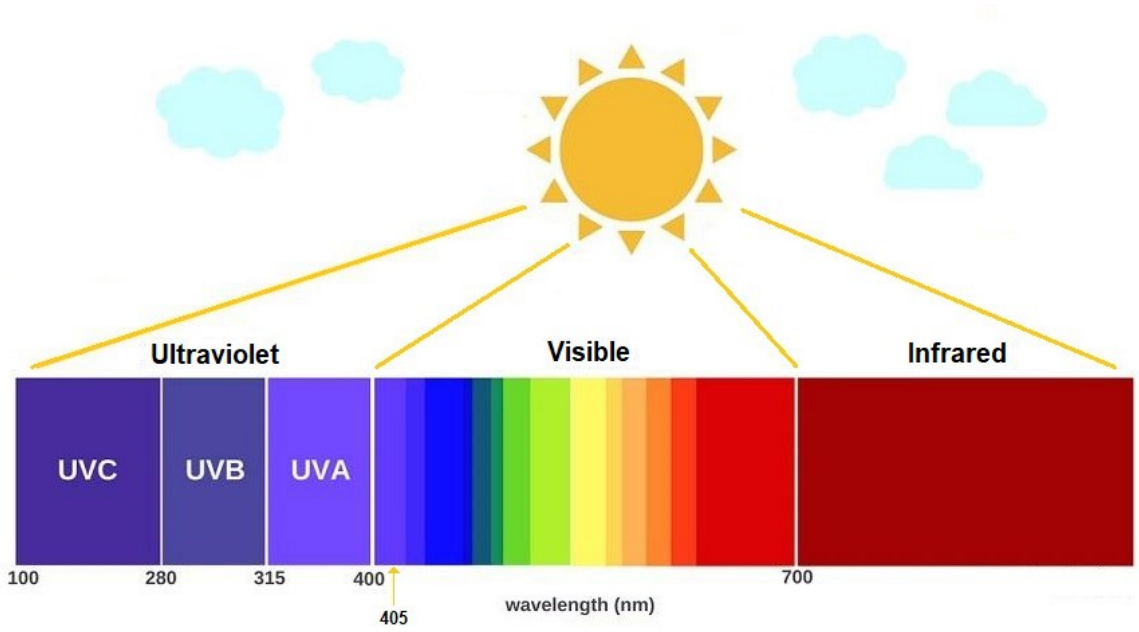
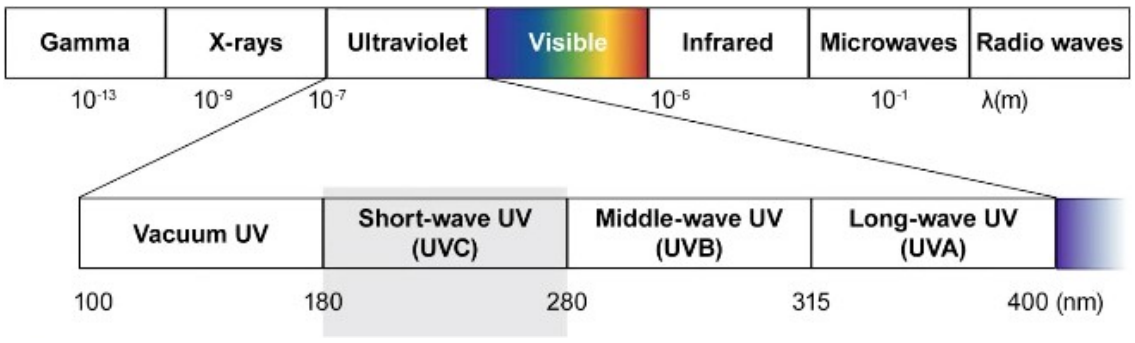
Visible and Invisible Light Spectrum





Ultraviolet Light and Visible Light

- Visible Light is between 400nm and 700nm
- Ultraviolet Light is between 100nm and 400nm
- The wavelengths between 265nm and 280nm are the most effective for germicidal eradication effectiveness

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Ultraviolet Dosage		90% Disinfection	99.9% Disinfection
MICROORGANISM	DISEASE	mJ/cm²	mJ/cm²
Cornynebacterium diphteriae	Diphtheria	3.4	10
Eberthella typhosa	Typhoid Fever	2.1	6.3
E. coli	Diarrhea	3	9
Legionella pneumophila	Legionnaires' disease	0.92	2.76
Micrococcus sphaeroides	Pneumonia	10	30
Neisseria catarrhalls	Sinusitis	4.4	13
Pseudomonas aeruginosa	Blood & Lung infections	5.5	16.5
S.tyyphimurium	Gastroenteritis	8	24
Serratia marcescens	Pneumonia	2.5	7.2
Shigella Paradysenteriae	Dysentery	1.7	5.2
Spirillum rubrurm	Lyme Disease	4.4	13
Staphylococcus aureus	Skin Infections	2.2-4.9	6.6-14.8
Streptococcus hemolyticus	Scarlet Fever, Pneumonia	2.2	6.6
Streptococcus lactis	Endocarditis	6.1	18
Streptococcus viridans	Meningitis	2	6
Baccillus tuberculi	Tuberculosis	10	30
Poliovirus	Polio	3.2	9.6
Infectus Hepatitis	Hepatitus	5.8	17.4
Influenza	Flu	3.4	10.2
SARS-CoV-2	COVID-19	3.7	8

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Active Airflow UV-C Fixture

Active Airflow UV-C Fixture	
Model	EHF-UVC-AA2x4-277
A/C Power	120V - 277VAC
Max Wattage	120 watts
Amperage	1.002 Amps (120VAC)
Wavelength	260nm-280nm
UVC Dosage	2160- 3600 mW/cm²
Noise Level	38 - 41dB
Fan Speed	131 CFM
Optimum Coverage per Fixture	360sq/ft
Fixture Dimensions (Lx Wx H)	47.75" x 23.75" x 2.75"
Fixture Weight	21 lbs

Project Name:
Project Number:
Fixture Schedule ID:
Model Name:

REPLACEMENT COMPONENTS:

UVC Maintenance Module	EHA-UVC-MODULE
Filter Module	EHA-UVC-FILTER

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