	Guardian Storm	UVENTX GRDYN-3 Ver.1.0
AIR CIRCULATION PER HOUR (ACH) ASHRAE standards clearly state that additional clean air circulation is essential in keeping people healthy.	1.76x Increases ACH	2.5-3.2x Increases ACH
FILTRATION Maintaining peak performance of the UV-C lamps and reducing disinfection load is imperative to killing pathogens effectively.	Unrated Filter	MERV-15 0.1 Micron
UV-C INTENSITY Eliminate Covid-19's reproduction capabilities with 22,000nJ/+ of UV-C exposure at a 253.4nm wavelength.	N/A No UVC	23,000nJ Multi-vector
DURATION OF UV-C EXPOSURE Viruses such as Covid-19, bacteria and fungi are only eliminated when combining the sufficient intensity with the proper amount of exposure time.	N/A No UVC	1.5s 99% Disinfection
CIRCULATIONS REQUIRED (100sqf) The GRDYN-3 is designed as a single pass system. Other systems require multiple air passes and are less effective since occupants are exposed to diseases such as Covid-19 for a longer period of time.	N/A No UVC	Single Pass +/- 25 Minutes
EXPOSURE TO HUMAN BEINGS Direct exposure to UV-C lights is dangerous to human health. Although there are degrees of acceptable exposure, the GRDYN-3 is fully shielded and 100% safe to use simultaneously while occupied.	N/A No UVC	No UV-C is 100% Shielded
NOISE GENERATED 30dB = Whisper	<40dB = Whisper	27.4dB = Whisper Quiet

	Guardian 222	UVENTX GRDYN-3 Ver.1.0
AIR CIRCULATION PER HOUR (ACH) ASHRAE standards clearly state that additional clean air circulation is essential in keeping people healthy.	N/A	2.5-3.2x Increases ACH
FILTRATION Maintaining peak performance of the UV-C lamps and reducing disinfection load is imperative to killing pathogens effectively.	N/A	MERV-15 0.1 Micron
UV-C INTENSITY Eliminate Covid-19's reproduction capabilities with 22,000nJ/+ of UV-C exposure at a 253.4nm wavelength.	718nJ Single Vector	23,000nJ Multi-vector
DURATION OF UV-C EXPOSURE Viruses such as Covid-19, bacteria and fungi are only eliminated when combining the sufficient intensity with the proper amount of exposure time.	5min 99% Disinfection	1.5s 99% Disinfection
CIRCULATIONS REQUIRED (100sqf) The GRDYN-3 is designed as a single pass system. Other systems require multiple air passes and are less effective since occupants are exposed to diseases such as Covid-19 for a longer period of time.	Unknown	Single Pass +/- 25 Minutes
EXPOSURE TO HUMAN BEINGS Direct exposure to UV-C lights is dangerous to human health. Although there are degrees of acceptable exposure, the GRDYN-3 is fully shielded and 100% safe to use simultaneously while occupied.	Yes 222nm is safe according to University of Hiroshima	No UV-C is 100% Shielded
NOISE GENERATED 30dB = Whisper	<50dB = Computer	27.4dB = Whisper Quiet

	UVC LED Panel Light Haichang	UVENTX GRDYN-3 Ver.1.0
AIR CIRCULATION PER HOUR (ACH) ASHRAE standards clearly state that additional clean air circulation is essential in keeping people healthy.	Unspecified	2.5-3.2x Increases ACH
FILTRATION Maintaining peak performance of the UV-C lamps and reducing disinfection load is imperative to killing pathogens effectively.	Unrated Filter	MERV-15 0.1 Micron
UV-C INTENSITY Eliminate Covid-19's reproduction capabilities with 22,000nJ/+ of UV-C exposure at a 253.4nm wavelength.	1200nJ Single Vector	23,000nJ Multi-vector
DURATION OF UV-C EXPOSURE Viruses such as Covid-19, bacteria and fungi are only eliminated when combining the sufficient intensity with the proper amount of exposure time.	30min 99% Disinfection of Eco	1.5s 99% Disinfection
CIRCULATIONS REQUIRED (100sqf) The GRDYN-3 is designed as a single pass system. Other systems require multiple air passes and are less effective since occupants are exposed to diseases such as Covid-19 for a longer period of time.	Unknown	Single Pass +/- 25 Minutes
EXPOSURE TO HUMAN BEINGS Direct exposure to UV-C lights is dangerous to human health. Although there are degrees of acceptable exposure, the GRDYN-3 is fully shielded and 100% safe to use simultaneously while occupied.	Yes Direct & Hazardous to Humans	No UV-C is 100% Shielded
NOISE GENERATED 30dB = Whisper	Unspecified	27.4dB = Whisper Quiet

https://www.haichanglight.com/product/uvc-led-panel-light-for-hospital-sterilization-disinfection-and-cleaning/



	UVC LED Germicidal Lamp Under Cabinet Light Bar Haichang UVC LED	UVENTX GRDYN-3 Ver.1.0
AIR CIRCULATION PER HOUR (ACH) ASHRAE standards clearly state that additional clean air circulation is essential in keeping people healthy.	Unspecified	2.5-3.2x Increases ACH
FILTRATION Maintaining peak performance of the UV-C lamps and reducing disinfection load is imperative to killing pathogens effectively.	Unrated Filter	MERV-15 0.1 Micron
UV-C INTENSITY Eliminate Covid-19's reproduction capabilities with 22,000nJ/+ of UV-C exposure at a 253.4nm wavelength.	120nJ Single Vector	23,000nJ Multi-vector
DURATION OF UV-C EXPOSURE Viruses such as Covid-19, bacteria and fungi are only eliminated when combining the sufficient intensity with the proper amount of exposure time.	30min 99% Disinfection	1.5s 99% Disinfection
CIRCULATIONS REQUIRED (100sqf) The GRDYN-3 is designed as a single pass system. Other systems require multiple air passes and are less effective since occupants are exposed to diseases such as Covid-19 for a longer period of time.	Unknown	Single Pass +/- 25 Minutes
EXPOSURE TO HUMAN BEINGS Direct exposure to UV-C lights is dangerous to human health. Although there are degrees of acceptable exposure, the GRDYN-3 is fully shielded and 100% safe to use simultaneously while occupied.	Yes 222nm is safe according to University of Hiroshima	No UV-C is 100% Shielded



NOISE GENERATED

30dB = Whisper 40dB = Computer 50dB = Refrigerator 60dB = Air Conditioner

Unspecified

27.4dB = Whisper Quiet

<u>How to use UVC LED Germicidal Lamps to sanitize Coronavirus in your car, wardrobe and under cabinets</u>



https://www.haichanglight.com/product/uvc-led-germicidal-lamp-under-cabinet-light-bar/



	Portable UV LED Disinfection lights Bar Germicidal Sterilizer Haichang	UVENTX GRDYN-3 Ver.1.0
AIR CIRCULATION PER HOUR (ACH) ASHRAE standards clearly state that additional clean air circulation is essential in keeping people healthy.	Unspecified	2.5-3.2x Increases ACH
FILTRATION Maintaining peak performance of the UV-C lamps and reducing disinfection load is imperative to killing pathogens effectively.	Unrated Filter	MERV-15 0.1 Micron
UV-C INTENSITY Eliminate Covid-19's reproduction capabilities with 22,000nJ/+ of UV-C exposure at a 253.4nm wavelength.	120nJ Single Vector	23,000nJ Multi-vector
DURATION OF UV-C EXPOSURE Viruses such as Covid-19, bacteria and fungi are only eliminated when combining the sufficient intensity with the proper amount of exposure time.	30min 99% Disinfection	1.5s 99% Disinfection
CIRCULATIONS REQUIRED (100sqf) The GRDYN-3 is designed as a single pass system. Other systems require multiple air passes and are less effective since occupants are exposed to diseases such as Covid-19 for a longer period of time.	Unknown	Single Pass +/- 25 Minutes



COMPARISON OVERVIEW 01/2021/A

EXPOSURE TO HUMAN BEINGS Direct exposure to UV-C lights is dangerous to human health. Although there are degrees of acceptable exposure, the GRDYN-3 is fully shielded and 100% safe to use simultaneously while occupied.		Yes 222nm is safe according to University of Hiroshima	No UV-C is 100% Shielded	
		D 40dB = Computer 60dB = Air Conditioner	Unspecified	27.4dB = Whisper Quiet

https://www.haichanglight.com/product/portable-uv-led-disinfection-lights-bar-germicidal-sterilizer/

	Far UV High Bay Fixture	UVENTX GRDYN-3 Ver.1.0
AIR CIRCULATION PER HOUR (ACH) ASHRAE standards clearly state that additional clean air circulation is essential in keeping people healthy.	Unspecified	2.5-3.2x Increases ACH
FILTRATION Maintaining peak performance of the UV-C lamps and reducing disinfection load is imperative to killing pathogens effectively.	Unrated Filter	MERV-15 0.1 Micron
UV-C INTENSITY Eliminate Covid-19's reproduction capabilities with 22,000nJ/+ of UV-C exposure at a 253.4nm wavelength.	240nJ Single Vector	23,000nJ Multi-vector
DURATION OF UV-C EXPOSURE Viruses such as Covid-19, bacteria and fungi are only eliminated when combining the sufficient intensity with the proper amount of exposure time.	Uknown time 99% Disinfection	1.5s 99% Disinfection



COMPARISON OVERVIEW 01/2021/A

CIRCULATIONS REQUIRED (100sqf) The GRDYN-3 is designed as a single pass system. Other systems require multiple air passes and are less effective since occupants are exposed to diseases such as Covid-19 for a longer period of time.	Unknown	Single Pass +/- 25 Minutes
EXPOSURE TO HUMAN BEINGS Direct exposure to UV-C lights is dangerous to human health. Although there are degrees of acceptable exposure, the GRDYN-3 is fully shielded and 100% safe to use simultaneously while occupied.	Yes 222nm is safe according to University of Hiroshima	No UV-C is 100% Shielded
NOISE GENERATED 30dB = Whisper	Unspecified	27.4dB = Whisper Quiet

https://www.prolampsales.com/products/larson-electronics-far-uv-high-bay-fixture-240w-6-lamps