Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

FRL-EMY-5-20W-FUVC-KT-120V

20-Watt Far UV 222nm Lamp Kit, 5" Bulb, 3500uW Output Far UVC, Lamp w/ 120V Ballast, Skin Safe

Product ID: 272604



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

FRL-EMY-5-20W-FUVC-KT-120V UVC Sanitation Lamp w/ Ballast - Ozone Free

Lamp Technology: Far UV-C Excimer
Dimensions: 4.73"-L x 1.3"-OD (Glass OD: 1.1")
Weight: < 1 lb
Ballast Dimension: -
Ballast Weight: -
Voltage: Ballast Dependent (Ballast Included)
Frequency: Ballast Dependent (Ballast Included)
Total Watts: 20W
Total UV Output: -
Effective UV Intensity: 3500 uW/cm2 @ lamp lens
Expected Lifespan: 6,500+ Hours
UV Wavelength: Far UV-C, 222nm
Lamp Type: Excimer
Lamp Base: -
Replacement Lamp: FRL-EMY-5-20W-FUVC
Replacement Ballast: FRL-EMY-5-20W-FUVC-RBALL
Lamp Mounting Bracket: FRL-EMY-XX-FUVC-SP0118-R3
Beam Angle: 360º
Light Configuration: Flood
Remote Driver: Included
Ballast/Power Supply Voltage: 120 V AC, 50/60 Hz
Amps: -
Ambient Operating Temp Range: -50°C to +80°C
Materials: KrCl Gas Mixture, Polymer End Caps, Glass Lens
Lens Material: Quartz Glass

Ratings/Features

222nm Germicidal Light
Kills 99% of Viruses and Other Germs
Mercury Free Lamp
Instant-On Lamp, No Warm Up Time
More Efficient & Effective than UVC Lamps
No Harmful UVC Emissions
No Block Off/Bandpass/Cutoff Filters) Needed
Skin Safe & Eye Safe
Ozone Free
Low Heat Output
EPA Reg. No 98409-1
EPA Est. No. 98409-TX-1

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Mounting: End Cap Lamp Clips (Hardware not included)

Wiring: +/- Pigtails

Cord Cap: -

PLEASE NOTE: UV-C light can cause temporary or permanent loss of vision, and temporary acute redness or ulceration (mild to severe sunburn) to exposed skin. To prevent exposure, do not operate the device in any application that allows UV-C light to be visible during operation. NEVER LOOK DIRECTLY AT THE BULB OR DISINFECTING TARGET ZONE. DO NOT touch bulb with bare hands. The oils in your skin will damage the lamp. Fingerprints will result in reduced performance and significantly reduce the lifespan of the lamp unless they are removed with alcohol. Please read instruction manual for UV safety requirements before operating.

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The FRL-EMY-5-20W-FUVC-KT-120V from Larson Electronics is a UV Excimer Light that can disinfect 99% of viruses, bacteria, mold, and spores in facilities and on surfaces. This ozone-free unit offers 222nm UV-C output and comes with a ballast. Considered to be eye and skin safe, the far-UV lamp offers instant start and cool operation. The ballast/power supply, which operates on 120 V AC, 50/60 Hz, is included with the lamp.
Please note: This product produces UV light. Make sure to follow all safety guidelines and protocols found in the user manual. UVC light in the proper setting kills up to 99.9% of viruses, mold, spores, and bacteria. Click here to learn more about UVC and the coronavirus*
The FRL-EMY-5-20W-FUVC-KT-120V is a powerful sanitation solution that has eye and skin safe features for industrial sites and commercial facilities. This 20-watt excimer lamp offers 3500 uW/cm2 UV intensity at 222nm UV wavelength. The ozone-free light has an expected lifespan of 10,000+ hours and emits a flood beam pattern with 360 degrees of coverage. This UV light is protected by a quartz glass. The far-UV light can disinfect over 99% of viruses, bacteria, mold, and spores. Adhering closely to recommended exposure time for viruses, multiple lights can be purchased to cover larger areas quicker.
This lamp is considered to be eye and skin safe (the 222nm UV wavelength cannot penetrate the eyes and skin of humans), making applications suitable in occupied areas requiring sanitation. Designed for cool operation, the instant-start light is efficient at eliminating harmful microbes, viruses, and bacteria at low doses.
Benefits of Excimer Far UV Lamps: When it comes to Far-UV lamps, there are few options in the skin-safe and eye-safe wavelengths. Similar to LED lamps, excimer lamps provide "instant-on" startup, and do not require a warmup period; excimer lamps are at 100% peak output when switched on. Most lamp technologies that do product UVC use mercury in the manufacturing process. Excimer lamps have ZERO mercury, making them more environmentally friendly. Excimer lamps can be tuned to specific wavelengths (222nm wavelength for this product) and produce no harmful UVC radiation or wasteful visible light and infrared light. Excimer lamps are more efficient at converting electricity (input power) into UV irradiance, which reduces the heat output from excimer lamps over other technologies. Fluorescent, amalgam, low-pressure mercury, and high-pressure mercury lamps do not product as tight of a wavelength and generate more heat, both of which wastes energy for the UV sanitation application. Excimer lamps have a higher average UV irradiance per square inch and have a higher photon emission over other lamp technologies. Being safe for use in occupied areas, instant-on power, mercury free, higher UV output, and low heat output make Far-UV excimer lamps the preferred choice for UV sanitation and disinfecting applications.
Voltage: The FRL-EMY-5-20W-FUVC-KT-120V is compatible with 120V AC 50/60 Hz. Cooled by natural air, the ballast is included with the far-UV lamp. We also offer 208V, 220V, 240V, 277V, 347V, and 480V AC models, and 12V, 24V, 48V, 125V, and 250V DC models upon request.
Wiring: The FRL-EMY-5-20W-FUVC-KT-120V is designed for hard wire applications and includes flying leads for power connections to the remote mounted ballast. We can provide corded models with factory installed cord and cord cap upon request.
Mount: Mounting brackets for the FRL-EMY-5-20W-FUVC-KT-120V are available

but are sold separately. The compatible mounting brackets can be found here: FRL-EMY-XX-FUVC-SP0118-R3.

Note on Environment: Sunlight and visible light fixtures do not impact the effectiveness of the disinfecting on this UVC sanitation product. Metal halide, high pressure sodium, fluorescent, and LED light fixtures can be left on. The UV radiation emitted from this product is not disrupted by any type of lighting in the environment. Put simply, NO it DOES NOT need to be dark in the area you plan to disinfect. Please see user manual for additional safety information.

Suggested Applications: Sanitation, disinfection, commercial locations, industrial parks, medical centers, labs, manufacturing and semiconductors; kills 99% of viruses, bacteria, mold, and spores.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.


LARSON
ELECTRONICS
20W 30W 40W
ON
OFF
A21


LARSON
ELECTRONICS
OFF
A21


LARSON
ELECTRONICS
FRL-EMX-6-40W-FUVC-KT


LARSON
ELECTRONICS
H/V out
S/N:

Form 3540-8 Accepted for Establishment LARSON ELECTRONICS LLC

From
helpdesk@epacdx.net

Re: Establishment Number: 98409-TX-1
EPA Region: 06

Larson Electronics LLC
Attn: Robert Bresnahan
9419 E US HWY 175

Kemp, TX 75143 USA

This email serves as notification of registration of the pesticide-producing establishment for which you applied, pursuant to Section 7 of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The Form 3540-8 for establishment LARSON ELECTRONICS LLC has been accepted. The new Establishment Number is: 98409-TX-1. This establishment registration will remain in effect, provided pesticide reports on production and sales or distribution amounts are submitted annually as required.

Part 167 of the Code of Federal Regulations (40 CFR) requires your company to submit an initial report for Pesticide-Producing Establishments, EPA Form 3540-16, within 30 days of receipt of this email. You should submit electronically with the Section Seven Tracking System (SSTS) to ensure on-time delivery. You can find out how to register for e-reporting and submit your initial and annual reports quickly here: https://www.epa.gov/compliance/electronic-reporting-pesticide-establishments

Please note that the initial report asks for production amounts for year **2019**. **Failure to submit your Initial report(s) within 30 days may subject your establishment(s) to an administrative civil penalty.**

After the initial report, future reports must be submitted on a yearly basis. Production reports for establishments registered to produce pesticides and pesticidal devices are due by March 1st as long as the establishment is active, regardless of whether or not production has occured (regulations pursuant to Section 7 of FIFRA).

NOTE: EPA will not accept any faxes or emails of establishment initial or annual reports (EPA Form 3540-16).

Parts of the 40 CFR which apply to pesticide establishments are: (1) *Part 167-Registration of Pesticide and Active Ingredient Producing Establishments, Submission of Pesticide Reports* and (2) *Part 169-Books and Records of Pesticide Production and Distribution*.

Changes in name, address, or ownership of the company or any establishments are to be reported to this

office within thirty (30) days of the change. If your company decides to cease production of all pesticides and pesticidal-devices, you may request termination of the establishment(s). Requests for termination of establishments can be sent to the proper EPA Regional Coordinator in your area, or completed on our electronic reporting system at https://cdx.epa.gov.

The container of each pesticide product which is released for shipment must bear the EPA Establishment Number assigned to the establishment in which it was produced. This number, which is to be preceded by "EPA Est.", may appear in any suitable location on the label or immediate container. It must also appear on the outside container or wrapper of the package if the EPA Establishment Number on the immediate container cannot be clearly read.

For more information, FAQs and additional instructions please go to our website: https://www.epa.gov/compliance/pesticide-establishment-registration-and-reporting

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Sep 23, 2020

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Robert Bresnahan
Larson Electronics LLC
9419 E US HWY 175

Kemp, TX 75143

Subject: Assignment of New EPA Company Number

Dear Registrant:

The Office of Pesticide Programs received your request for a company/distributor number. The company number assigned to you is 98409.

You are required to notify the Agency of any change in name or address. All requests for change of company name and/or address, appointment of agent or withdrawal of an agent's appointment, must be sent to the following address:

Document Processing Desk(COADR)
Office of Pesticide Programs(7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

All products must be registered with the Agency prior to shipment and/or sale. Information on registering pesticide products can be obtained by calling the Registration Division Ombudsperson at (703) 308-8893. Requests for a Pesticide Registration Kit can be obtained via e-mail to: Hobgood.Sherada@epa.gov If you are only distributing a product you must complete the Notice of Supplemental Registration of Distributor (EPA form 8570-5). This form can also be obtained by calling the number listed above or can be downloaded at: https://www.epa.gov/pesticide-registration/pesticide-registration-manual-blank-forms.

Any production of pesticides, active ingredients or devices, including companies or establishments that import into the United States, must be conducted in a registered pesticide-producing or device-producing establishment. Information on registering an establishment can be downloaded at: https://www.epa.gov/compliance/epa-form-3540-8-application-registration-pesticide-producing-and-device-producing.

Sincerely,

Shirley A. Burgess

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

Frequently Asked Questions (FAQ)