



www.max-assure.com

1470 Don Street · Naples, Florida 34104

Telephone (239) 643-2778
Customer Service (800) 944-1711
Fax (239) 643-6081

Installation & Operations Manual for Energenics UV-MAX Conveyor Disinfection System

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eenergenics UV MAX

Conveyor



Advisories

Purpose

The Energenics UV-MAX Conveyor system has been designed to provide direct disinfection exposure to surface areas. The system design allows for microbial disinfection control.

The Energenics UV-MAX Conveyor system was developed as a cleaning device utilizing Ultraviolet Light for direct exposure disinfection.

Contents

This manual will serve as your reference guide for installation, operation, and service of your UV-MAX Conveyor system. Reference to all parts, warranty, and support are included.

This manual covers the system/equipment/products listed below:

- Energenics UV-MAX Conveyor 36”
- Energenics UV-MAX Conveyor 48”

Safety Observation: It is required for the person(s) responsible for the installation of this equipment, operators of this equipment, and operation personnel managers to review and understand this manual.

USE OF LISTED SYSTEM / EQUIPMENT MUST COMPLY WITH INSTRUCTIONS AND SAFETY REQUIREMENTS.

UV-MAX Conveyor Safe Operation Procedure

Follow procedure below for safe operation:

1. Wear safety glasses when installing UV-MAX Conveyor
2. Securely mount fixture to conveyor using supplied brackets and hardware or other appropriate fasteners as conditions require
3. Supply 110-volt power to unit
4. Adhere to recommended safety precautions to avoid potential injury
 - Never look directly at UV lamp in operation without wearing approved safety glasses
 - Confirm there is ZERO UVC exposure to personnel

Safety Guidelines

Long-term exposure to ultraviolet light is dangerous. UVC can produce eye injuries and skin irritation similar to a sun burn over prolonged exposure. These effects are considered transient. UVC may also be carcinogenic but since it has very limited penetrating ability it is unlikely to cause damage to anything besides the outer layer of skin or other exposed surfaces.

The Energenics UV-MAX Conveyor is designed for zero user exposure to UVC; however, we will review safety factors regarding UVC for better knowledge and understanding.

Protective Clothing and Eyewear

It is not recommended that any personnel be subject to direct UVC exposure. In the event such exposure is probable, personnel should wear PPE providing full coverage of exposed skin and appropriate eye protection.

UVC safety glasses designed to filter UVC and those of the wrap-around type are recommended. Safety glasses should be made of any material other than Quartz or Teflon.

OSHA Guidelines for Ultraviolet Exposure

OSHA provides technical guidance regarding protecting employees from ultraviolet light with respect to laser hazards only.

OSHA has two standards that cover employee exposure to radiation: *Nonionizing Radiation* (29 CFR 1910.97) and *Ionizing Radiation* (29 CFR 1910.1096). You may access a copy of the OSHA radiation standards from their website at <http://www.osha.gov>.

The non-ionizing radiation standard only covers the radio frequency region, including microwaves. The ionizing radiation standard covers alpha, beta, gamma, and X-rays; neutrons; high-speed electrons and protons; and other atomic particles; but **does not include** sound or radio waves, or visible, infrared, or **ultraviolet light**. Therefore, there are no OSHA-mandated employee exposure limits to ultraviolet radiation.


System Description, Delivery, and Installation

The Energenics UV-MAX Conveyor is designed for maximum disinfection through the shortest exposure time. The system design provides the optimum in:

- UV dosage to footprint served
- Rugged design
- Ease of use
- User safety protection

Delivery

When you get your UV-MAX Conveyor, you will need to unpack and inspect the unit:

1. Unpack your new UV-MAX Conveyor and inspect inside and outside for damage.
 If damage is present, contact MaxAssure prior to use: 239-643-2778
2. Verify secure lamp installation
3. Your Energenics UV-MAX Conveyor system is now ready for installation

Installation

UV-MAX Conveyor installation may require a unique mounting approach. Installation hardware including antimicrobial powder coated brackets are provided with each unit. The following guidelines should be maintained during installation:

- Mount UV-Max Conveyor as close to the application site as possible
- Installation area should be free of loose debris
- Unit and lamps should be free from damage
- Maintain safe electrical supply

System care and Troubleshooting

System Care

The Energenics UV-MAX Conveyor is designed for repeat performance and constant interaction. Based on the system design there is little care needed. If you adhere to the following steps your system will provide years of disinfection.

1. Inspect the system interior and exterior for clean conditions
2. Lamps should be free from dust and debris
3. Clean lamps as needed with isopropyl or rubbing alcohol
4. It is recommended to test the system performance using an ATP meter
5. Change the lamps at 8000 Hours (Run-time log recommended)

The above steps are listed as the basic level of care, should the system be utilized in a heavy work environment, further care may be required.

Troubleshooting:

The below statements are listed as a troubleshooting guideline. Further information is provided through energenics support.

Q: What should I do if the system will not turn on?

A: Verify the power to the system is correct

A: Inspect the lamp for age or damage

Q: My system is running fine; how do I verify the lamp output is correct?

A: Test the system performance using an ATP meter