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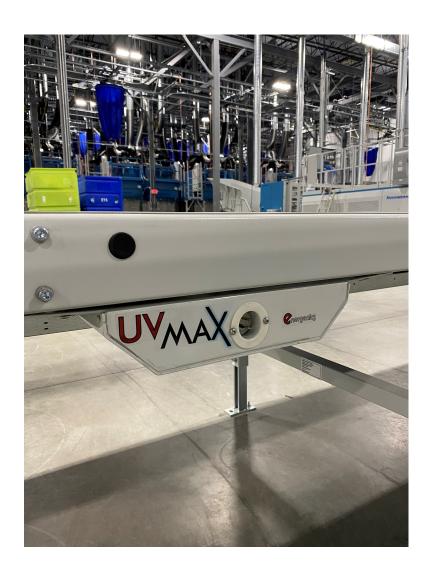
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Installation & Operations Manual for Energenics UV-MAX BELT Ultraviolet Conveyor Disinfection System

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UV-MAX BELT



Advisories

Purpose

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

The Energenics UV-MAX BELT conveyor disinfection system was developed to provide direct exposure "clean side" conveyor belt disinfection utilizing Ultraviolet Light (UV-C).

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 24"
- Energenics UV-MAX Conveyor 36"
- o 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 Belt Safe Operation Procedure

Follow procedure below for safe operation:

- 1. Wear safety glasses when installing UV-MAX BELT conveyor disinfection system
- 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
 - o Confirm there is ZERO UVC exposure to personnel

Safety Guidelines

Exposure to UV-C light is dangerous. The adverse health effects that may occur are erythema (sunburn) and photokeratitis (a feeling of sand in the eyes). These effects are considered transient. UV-C may also be carcinogenic but since it has very limited penetrating ability, it is unlikely to cause damage to anything beyond the outer layer of skin or other exposed surfaces. Unfortunately, there are no immediate warning symptoms to indicate overexposure to UV radiation and adverse effects typically appear hours after exposure has occurred.

Protective Clothing and Eye wear

It is not recommended that any personnel be subject to direct UV-C exposure. Personnel that may be exposed to harmful amounts and wavelengths of UV must take adequate steps to shield themselves and in some cases limit the duration of exposure.

If there is any potential for the eyes and face to be exposed to UV radiation, a polycarbonate face shield stamped with the ANSI Z87.1-1989 UV certification must be worn to protect the eyes and face. Ordinary prescription eyeglasses may not block UV radiation. UV certified goggles and safety glasses will protect the eyes, but workers may suffer facial burns in the areas not covered by the goggles or glasses.

OSHA Guidelines for Ultraviolet Exposure

There is no Occupational Safety and Health Administration (OSHA) standard regarding exposure to ultraviolet light, but the OSHA general duty clause states the employer must provide a workplace free of recognized hazards that may cause death or serious physical harm.

System Description, Delivery, and Installation

The Energenics UV-MAX BELT conveyor disinfection system 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 BELT, you will need to unpack and inspect the unit:

- 1. Unpack your new UV-MAX Belt and inspect inside and outside for damage.
 - If damage is present, contact Energenics prior to use: 239-643-1711
- 2. Verify secure lamp installation
- Your Energenics UV-MAX BELT conveyor disinfection system is now ready for installation

Installation

UV-MAX BELT conveyor disinfection system 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 BELT as close to the application site as possible without having direct contact with the belt
- 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 BELT conveyor disinfection system 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 9,000 Hours for optimal performance(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.

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