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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"
- 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
  - 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
3. 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.

## LIMITED WARRANTY & DISCLAIMER

### STANDARD CONDITIONS OF SALES

Energenics Corporation (herein called Energenics) warrants to the original purchaser, & to the original purchaser alone, its products to be free from defects in material and workmanship under normal use & service for a period of twenty-four (24) months from the date of shipment. Energenics' obligations under this warranty shall be limited solely to the repair or replacement of such parts, which Energenics examination shall disclose to Energenics satisfaction to have been thus defective & to the shipment of the repaired or replacement part or parts to the original purchaser F.O.B. point of shipment. In no event shall Energenics be liable for any consequential, incidental or special damages of any kind caused by the defect. The Warranty set forth shall not apply to & Energenics shall not be responsible for any equipment or part, which has been repaired or altered in any way, regardless of how or why the part was altered or repaired nor for any equipment or part, which has been subjected to the negligence or accident, improper use or care, nor for equipment or part with respect to which Energenics instructions relating to installation, maintenance, or use have not been followed. This limited warranty is expressly made in lieu of all other warranties, expressed or implied, and in lieu of all other obligations or liabilities on the part of Energenics.

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**RETURNS:** Merchandise may not be returned unless a RMA is obtained from Energenics. A copy of the RMA must accompany the returned item as the packing Slip. Energenics will assume no responsibility for merchandise returned neither without such prior approval nor for any charges or expenses incurred therewith.

**CANCELLATIONS:** Any order may be canceled by the purchaser only upon written notice & upon payment to Energenics of reasonable & proper cancellation charges.

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**PRICE POLICY:** All sales are made F.O.B. point of shipment and all prices are subject to change without notice.

**DESIGN CHANGES:** Energenics reserves the right to make changes in the design & changes or improvements in its products without notice or without imposing any obligation upon Energenics to install the same upon products heretofore manufactured.

**GENERAL:** No alteration, modification or extension of the foregoing conditions shall be binding upon Energenics unless made in writing & signed by an officer of Energenics.