

# Installation and Operation Manual

UV-C Germicidal Lights



# Equipment Application

This manual covers installation, operation, and maintenance requirements for U.V Light Disinfection Systems.

**It is important that those responsible for the installation of this equipment, as well as the owner/operator reads this manual and carefully follows instructions and guidelines.**

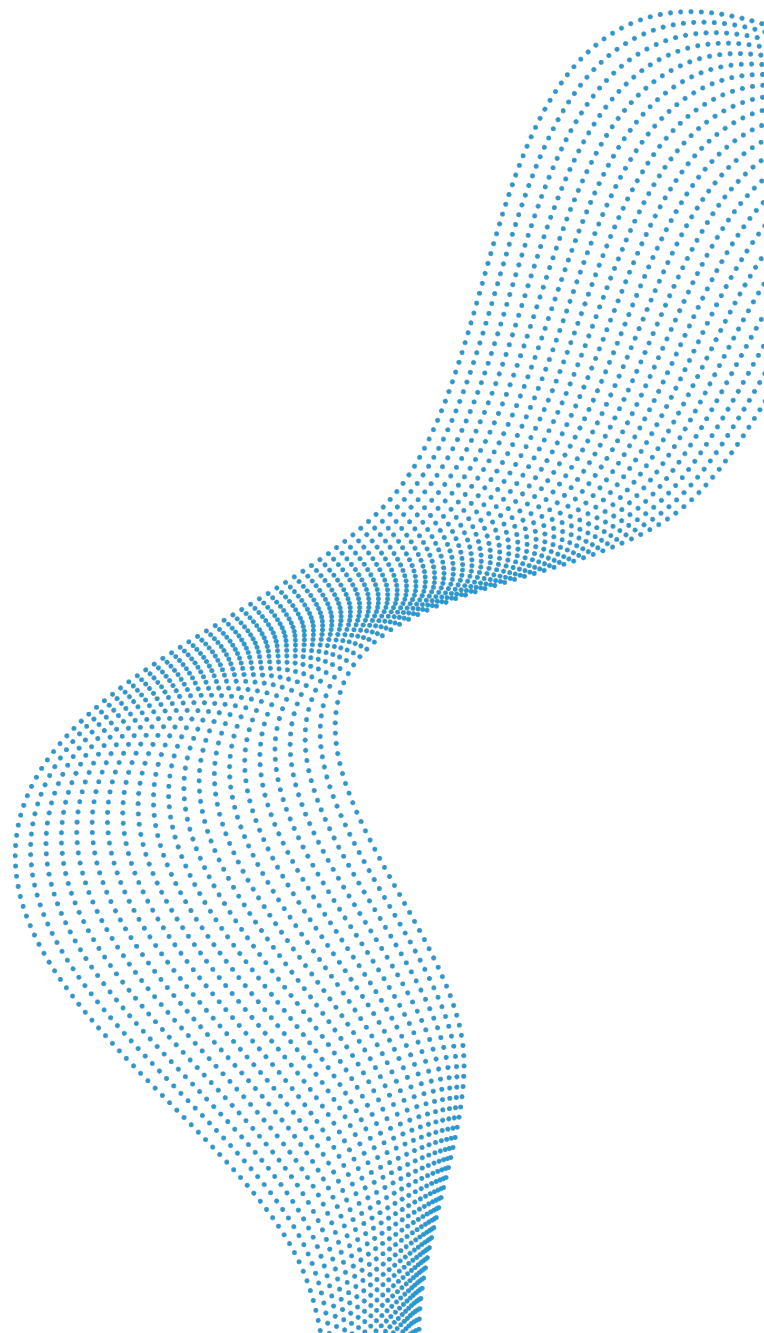
Thank you for your recent purchase of the UV-C Germicidal kit. We sincerely appreciate your business and are pleased to add your name to our growing list of customers.

With this purchase, you have invested in the highest quality equipment available. Absolutely no other UV-C Germicidal product on the market today can provide cleaner, healthier indoor air.

The UV-C Germicidal Kit takes cleaning the air to a level well beyond air cleaners alone. The UV-C technology effectively kills or inactivates even the tiniest surface and airborne microorganism that grows, disseminates, and circulates in air handling systems that trigger allergies and asthma. It also prevents the spread of colds, flu, and other viral and bacterial infections.

Please take a few moments to read this booklet. This will help you familiarise with the benefits you will receive from the product you just purchased. It will also help you understand the routine maintenance that will be required.

Your UV-C Germicidal Kit provides safe, continuous cleaning while saving money by reducing HVAC system maintenance and energy consumption. It produces no ozone or secondary contaminants while providing the highest output and longest lamp life.



# Safety

**Read and save these instructions before using your UV-C Germicidal kit**

Improper installation, adjustment, alteration, service, maintenance, or use can cause fire, electrical shock, or other conditions that may cause personal injury or property damage.

Consult your installing contractor for information or assistance. In regards to the statements below, understand the signal words **WARNING** or **CAUTION**.

These words are universally used for overall safety.

**WARNING** signifies hazards which could result in personal injury or death.

**CAUTION** is used to identify unsafe practices resulting in minor personal injury or product and property damage.

## **DANGER**

Electrical shock can cause personal injury or death. Before performing any work on this equipment, the electrical supply must be turned off to avoid the possibility of shock, injury, or damage to the equipment. There may be more than one power supply circuit.

## **WARNING**

Before performing maintenance or service on fixture, ensure unit is unplugged. Electrical shock can cause injury or death.

This unit contains high energy UV-C lamps which can cause temporary eye and skin irritation. Never expose unprotected eyes or skin to the UV-C light.

## **CAUTION**

- Do not touch UV-C Lamp without gloves. Damage to the lamp may result.
- Lamp must be off before entering HVAC unit to perform maintenance or service. Personal injury may result.
- Apply the correct voltage to the lamps. Other voltages will void the warranty and do permanent damage to the entire unit.  
**Fixtures should be operated continuously to preclude the development of mould and bacteria.**
- Only use genuine replacement high-output, low temperature lamps with accessory. Using the kit with lower wattage of other than Source 1 lamps could result in damage to accessory or lamp and will void your warranty.
- UV-C lamp contains a small quantity of mercury. If a UV-C lamp breaks, clean and dispose with care.



# Product Information

## How important is Indoor Air Quality?

Did you know that the EPA identified indoor air quality as one of the top environmental concerns? With people spending 90% of their time indoors, air quality is certainly something to be concerned about.

Asthma and allergies are on the rise. Asthma afflicts over 26 million North Americans with the number of emergency room visits and hospitalization escalating annually. Asthma is the #1 cause of school absenteeism.

Even the cleanest indoor spaces are home to millions of allergy-producing pollens, volatile organic compounds (VOCs) and airborne microorganisms such as bacteria, viruses, and mould. These pollutants and contaminants can trigger health issues ranging from the common cold to severe allergies and asthma.

Mould, mould by-products and their odours are the leading cause of allergic symptoms such as sneezing, watery, itchy eye, coughing, headaches, and sinus congestion.

Your heating and air conditioning system provides the perfect damp, dark breeding ground for mould to grow and thrive. The mould attracts dust and dirt that continues to build up on the heating and cooling coils, drain pan and ducts. Every time the system runs, it disperses these harmful pollutants into the air that building occupant's breath.

By Installing the UV-C Germicidal Kit, you can benefit from a clean, healthy indoor environment.

## What can I do?

Designed to fit new and existing systems, the UV-C Germicidal Kit was developed to destroy airborne microorganisms for clean, germ free air.

## How does it work?

UV-C is the most effective germicidal wavelength in the ultraviolet light spectrum that will destroy the bonds of the DNA and RNA of microorganisms, killing or inactivating the microbes, surface, and airborne mould as well as viruses and bacteria.

UV-C greatly reduces allergy and asthma symptoms and can help prevent the spread of colds, flu, and other seasonal illness.

Installed inside your system near the coil, the UV-C lamp bathes the cooling coil, drain pan and the air with UV-C energy. Its high energy wavelength destroys the mould, bacteria and viruses that grow there or circulate in air before they travel around home or building and trigger allergic reactions or spread disease.

### **The UV-C Germicidal Kit is effective against:**

- Mould and mould spores
- Bacteria, including TB, Legionella, E. coli, Listeria, Pseudomonas, Serratia and whooping cough
- Viruses, including colds, flu, measles, mumps, and SARS
- Musty odours produced by mould and its by-product.
- Fouled coils that reduce system performance
- The Multi-patented UV-C lamp offers the highest output and the lowest life-cycle cost of any UV-C product. It is reliable and safe with no ozone or secondary contaminants

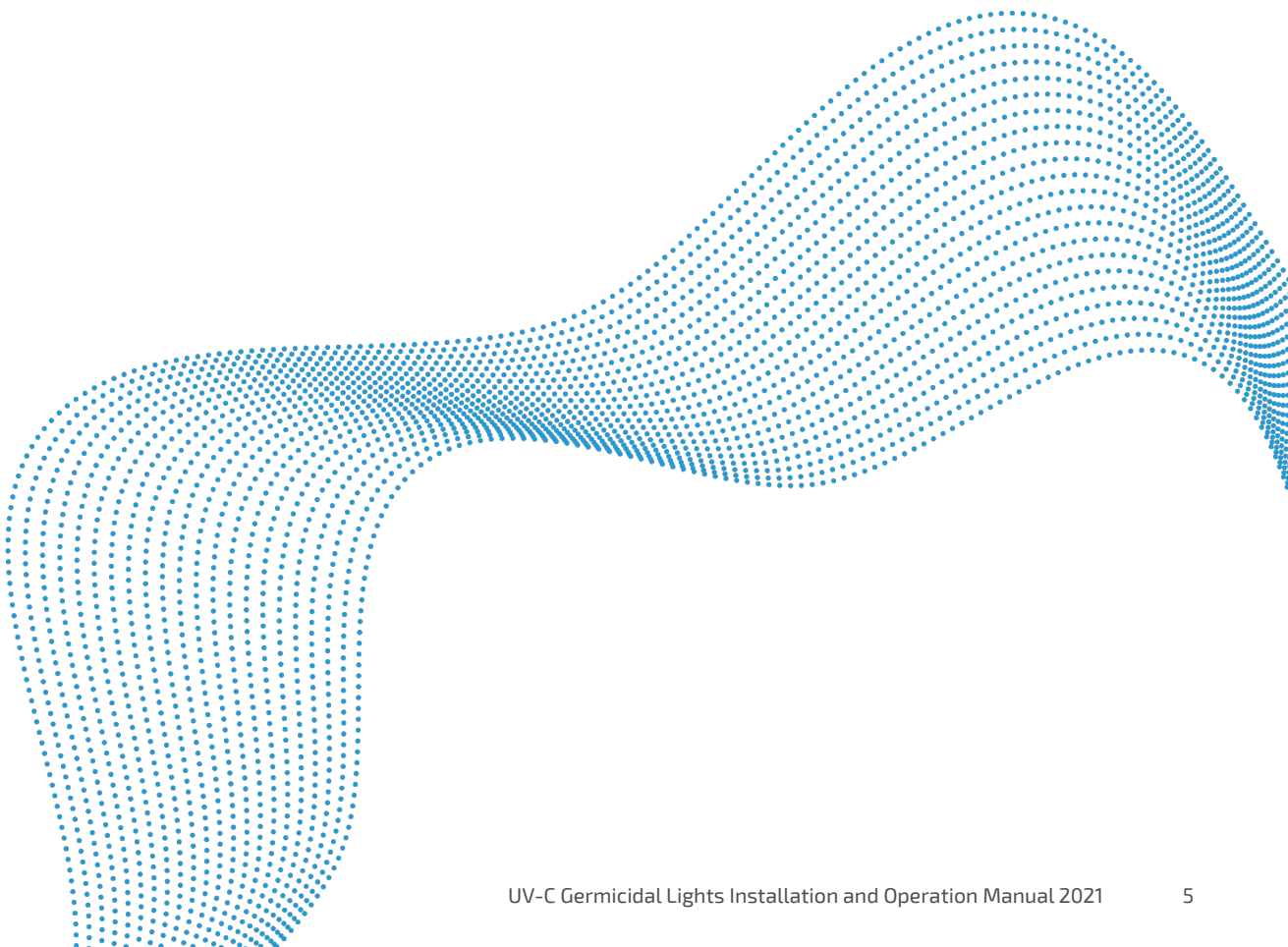
# Operation

**The UV-C lamp operates all the time.** To maximize germicidal effectiveness, it is recommended that the fan selector switch on your home thermostat be in an "on" position at all times.

To continuously clean the air, the air must be circulated past the germicidal lamp. Running the lamp and fan continuously ensures the cleanest air and the best protection from irritants and pollutants.

# Maintenance

The UV-C Germicidal Kit must be changed at 9,000 hours (approximately 12 Months) of operation or sooner to maintain design output and to ensure germicidal effectiveness.





# Fresh Air Indoors

For more information

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