User Manual

DISINFECTION TUNNEL

Model: GoClean Mini

Optimal Use with 1st Place Science Disinfectant for best & safest results
Disinfection plays an important role to stop the spread of COVID-19.
Thank You!

Thank you for purchasing the **GoClean Mini**, the **360° Disinfection Tunnel** to help us to stop the spreading of coronavirus **COVID-19** and save our lives and stay healthy.

This user manual contains a product overview, operation procedures, safety precautions, interlock and maintenance of the unit. Once this equipment is installed and connected to the power source, you will find that daily disinfection has been never been easier nor more convenient. The **GoClean Mini** with ultrasonic atomization with **360° disinfection process** with 1st Place science disinfectant destroys 99.999% of all kinds of viruses including **COVID-19**, bacteria, and other pathogens.

**GoClean Mini**'s **360° disinfection process** with **1ST PLACE SCIENCE DISINFECTANT** provides ultrasound atomization of the whole body which effectively kills all kinds of viruses, bacteria, microorganisms. It's a food grade disinfectant, safe and non toxic to human body.

The **GoClean Mini** disinfection anti pandemic tunnel is suitable for public health protection and monitoring. It uses disinfectant to sterilize human body, pet, cargo and luggage.

The **GoClean Mini** is suitable for indoor and outdoor disinfection applications, such as schools, hotels, hospitals, factories, churches, stadiums, cinemas, airports, stations, subways, resorts, shopping malls, construction sites, office buildings, etc.

**Read this User Manual before operating the equipment.**

Use this product only in the manner described in this User Manual. If the equipment is used in a manner not specified by the manufacturer, the safety protection provided by the equipment may be impaired.
TABLE OF CONTENTS

I. INTRODUCTION
II. TECHNICAL SPECIFICATIONS
III. OPERATION PROCEDURES
IV. APPENDICES
   ■ APPENDIX A: Infrared Motion Sensor
   ■ APPENDIX B: Chamber Drawing
   ■ APPENDIX C: Electrical Wiring Diagram
INTRODUCTION

Disinfection is broadly defined as a procedure, the results of which is transient, that eliminates many or all pathogenic microorganisms and deactivates undesirable viruses on inanimate objects. Germs include living microorganisms, such as bacteria, fungi, and the COVID-19 virus, which can cause infections or diseases. Depending on the achieved amount and type of germ destruction, disinfection is further categorized into high, intermediate, and low-level disinfection. Disinfection is essential for ensuring that hosts do not transmit infectious pathogens to other people. Deficiencies in disinfection procedures according to scientifically based guidelines increase the risk associated with
(i) Breach of host barriers
(ii) Person-to-person transmission, and
(iii) Transmission of environmental pathogens.

The activity of germicides against microorganisms depends on these factors, intrinsic qualities of the organism, the chemical and external physical environment. Factors that affect the efficacy of disinfection and sterilization include prior cleaning of the object; organic and inorganic load present; type and level of germ contamination; concentration of and exposure time to the germicide; physical nature of the object (e.g., crevices, hinges and lumen); presence of biofilms; temperature and pH of the disinfection process; and in some cases, relative humidity of biofilms.

Recently, industries have developed different types of disinfection equipment such as box/ chamber/ tunnel /booth / partition/ gate to reduce the spread of COVID-19. The disinfection procedure is usually by automated dispersion of disinfectant on individuals when he or she passes through the disinfection box/ chamber/ tunnel /booth / partition/ gate. These devices would possibly be activated by infrared or motion sensors embedded in the device. Different types of sprayers are being used to disperse the disinfectant. The GoClean Mini disinfection equipment is designed with ultrasonic atomizer spraying system to disperse the disinfectant within the confined tunnel and provides an effective coverage to disinfect viruses and bacteria.
GoCleanMini Disinfection Tunnel is supplied with the following component:

- Ultrasonic Atomizer Disinfection System
- Electrical components
  - Ultrasonic fogging status indicator
  - Manual / Auto mode switch
  - Main power ON/OFF switch
- LED light
- Motion infrared sensor
- Ultrasonic atomizer outlet
- Disinfectant filling inlet point
- Disinfectant level sight glass
- Transparent PVC curtain
- Wheel chair ramp
- Castor wheels
# TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>GoCleanMini</td>
</tr>
<tr>
<td>Power supply</td>
<td>110VAC / 60 Hz</td>
</tr>
<tr>
<td>Dimension</td>
<td>1.0 x 1.0 x 2.2 m (LWH)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 95kg</td>
</tr>
<tr>
<td>Body material</td>
<td>Aluminium Composite Panel (ACP)</td>
</tr>
<tr>
<td>Disinfection type</td>
<td>Ultrasonic Atomizer System</td>
</tr>
<tr>
<td>Power supply</td>
<td>48VDC</td>
</tr>
<tr>
<td>Consumption</td>
<td>300w</td>
</tr>
<tr>
<td>No of head</td>
<td>10nos</td>
</tr>
<tr>
<td>Disinfectant consumption</td>
<td>7L / min</td>
</tr>
<tr>
<td>Disinfectant tank</td>
<td>5.3 Gallons</td>
</tr>
<tr>
<td>Control mode</td>
<td>Manual / Automatic control model</td>
</tr>
<tr>
<td>Type of sensor</td>
<td>Infrared motion sensor</td>
</tr>
</tbody>
</table>
OPERATION PROCEDURES

Once, the GoCleanMini Disinfection Tunnel is installed completely, it is ready to be powered up and operated.

Before powering up the system, user shall select the operation mode of the equipment. The disinfection equipment can be set to be operated either on Manual (M) mode OR Automatic (A) mode.

On automatic control mode, the disinfection process starts automatically, once the infrared motion sensor detects a person entering the tunnel. The disinfectant fog will be released from the ultrasonic atomizer system for about 8 ~ 10 seconds, which is sufficient to disinfect and kill 99.999% viruses.

On Manual control mode, the disinfection process starts when the manual button is pressed and continues to fog till it is stopped manually.
OPERATION PROCEDURES

STEP 1
PREPARING THE DISINFECTANT TANK
To ensure the disinfectant tank is filled with sufficient disinfectant, user can check the disinfectant level in the tank from the disinfectant level sight glass (Figure 1.0).

Figure 1.0

STEP 2
FILL DISINFECTANT
Fill up the disinfectant via the disinfectant inlet (figure 2.0). Fill the disinfectant not more MAX. level as shown in figure 1.0.

Figure 2.0
OPERATION PROCEDURES

STEP 3  CONNECTING POWER SOURCE TO THE SYSTEM
Connect the main power supply connector to the main power supply socket which is mounted on right side of the chamber panel as shown in figure 3.0.

STEP 4  POWERING ON THE SYSTEM
Switch the 2-ways selector main switch to 90° position to the right to power “ON” the system. The LED on the main switch will be lit up in “green” when the power is “ON”.

Figure 3.0

Figure 4.0
If the system is on “Manual” control model, the ultrasonic atomizer system shall be “ON” immediately once the power is “ON”. The disinfection fog shall be released from the ultrasonic atomizer outlet in the tunnel as shown in figure 5.0a and figure 5.0b. At the same time, the LED light will be “ON” in blue color when the ultrasonic atomizer system is “ON”.

Figure 5.0a

Figure 5.0b
**OPERATION PROCEDURES**

**STEP 5B**

**THE SYSTEM ACTIVATED ON “AUTO” MODE**

The ultrasonic atomize system will be “ON” when the infrared motion is detected any object moving toward the chamber.

The disinfection fog shall be released from the ultrasonic atomizer outlet in the tunnel as shown in figure 5.0a and figure 5.0b. At the same time, the LED light will be “ON” in blue color when the ultrasonic atomize system is “ON”.

The ultrasonic fog shall be "ON" for pre-set duration (preset at 8~10 seconds) before turning "OFF". The spraying time can be configured via the infrared motion sensor.

Figure 5.0c
WE USE ❤️ TO FIGHT 🦠
APPENDIX A

Infrared Motion Sensor
Infrared motion sensor is used to detect a person's movement towards the chamber. The infrared motion sensor shall provide permissive signal to turn "ON" the ultrasonic atomizer system and LED light.

The infrared motion sensor is configurable for the following parameters by a simple rotary switch at the top of the sensor:

- **SENS**: Sensitivity
- **TIME**: Duration time (5s ~ 6min)
- **LUX**: Intensity of light to activate the permissive signal.
Infrared Motion Sensor

Descriptions
1. Easy to install.
2. Automatic, convenient, safe and practical.
3. It has the function of power and detection indication.
4. The motion sensor can identify day and night automatically.
5. It has wide detection range made up of up and down, left and right service field.
6. New type of energy-saving lighting switch. It adopts high sensitivity detector, integrate circuit and SMT.
7. It utilizes human motion infrared rays as control signal sources, when one enters the detection field, it will start the controlled load at once.

Specifications
- Color: Grey, Black
- Material: ABS
- Working Rotation: 180°
- Voltage: AC85V-260V
- LUX Setting: 2-20000lux svr adjustable
- Induction lighting time: 5s-6min adjustable time
- Detection distance: Approx 12M, installation 1.5-2.5M High
- Connection:
  - Blue color: Zero line
  - Brown color: Live wire
  - Red: Ground wire

Distributed By: FULL CIRCLE ENTERPRISES | Website: www.gofce.com | Tel: 877-572-4725 | Email: sales@gofce.com
Infrared Motion Sensor

INSTALLATION

[Diagram of infrared motion sensor installation]

Distributed By: FULL CIRCLE ENTERPRISES   |   Website: www.gofce.com   |   Tel: 877-572-4725   |    Email: sales@gofce.com
APPENDIX B

■ Chamber drawing
APPENDIX B

DISINFECTION TUNNEL

Model: GoClean Mini

Chamber Drawing

Distributed By: FULL CIRCLE ENTERPRISES   |   Website: www.gofce.com   |   Tel: 877-572-4725   |    Email: sales@gofce.com