



# Air Sniper DCU-300

## USER MANUAL





## A WORD TO AIR SNIPER OWNERS

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At Air Sniper, we design and build supplemental air purification systems with complete customer satisfaction in mind. To ensure trouble-free operation of your unit, please read this manual and follow installation recommendations.

An authorized Air Sniper representative will know the system best, and if service or maintenance is needed, the Air Sniper team is here to help.

For inquiries, questions or concerns regarding the unit, or any other Air Sniper products contact:



1.866.472.1059

[info@airsniper.ca](mailto:info@airsniper.ca)

Air Sniper Bay 11

6565 40th Street S.E.

Calgary, AB Canada T2C 2J9

**Call, email or fill out the online form and one of our customer service specialists will get in touch with you.**

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# IMPORTANT SAFETY INSTRUCTIONS



**WARNING: NEVER EXPOSE SKIN OR EYES TO UV LAMP WHEN OPERATING**

Read and follow all instructions prior to installation. Read the directions and all safety labels prior to operation. Failure to follow any instructions or labels may result in injury of the user or damage to the unit. Save this manual for future reference.

1. The DCU-300 unit is intended to be used for supplemental air sanitization inside of a sealed air chamber. **Do not** attempt to operate the UV-C lamps outside of the sealed housing.
2. Electrical shock may cause Injury or possible death. Ensure that the unit is turned off and disconnected from the power source prior to installation or replacement.
3. Untrained personnel can perform installation and replacement of the unit as per the instructions within this manual. **Do not** attempt to perform any maintenance on your unit. Improper maintenance can result in damage to the unit and injury of the user. If your unit requires maintenance, please contact Air Sniper. Replacement of the UV-C lamp by the user is **not allowed**.
4. **Do not** attempt to modify your unit. Modification of this unit may result in injuries to the user or damage to the unit.
5. Inspect your unit for any abnormalities or damage prior to installation and use. Damaged units can result in harmful UV-C leaks. **Do not** operate units that are damaged.
6. If the supply cord is damaged, it must be replaced by the manufacturer, a service agent or similarly qualified persons in order to avoid a hazard.
7. This appliance contains a UV-C emitter. UV-C lamps contain small amounts of mercury. If the lamp is broken or damaged, clean and dispose of it properly as per your local safety regulations.
8. The DCU-300 unit is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or a lack of experience and knowledge, unless properly supervised. Children shall be supervised so that they do not play with the unit.
9. It is recommended a minimum of 2 people are present when installing the unit. Units can be heavy and require care and precision when installing.
10. Air Sniper products are not waterproof. **Do not** attempt to use your unit in a wet environment.
11. Air Sniper products are designed for indoor use only. **Do not** attempt to install your unit outdoors.
12. The use of this device is a supplement to and not a substitute for standard infection control practices; users must continue to follow all current infection control practices related to cleaning and disinfection of environmental surfaces.
13. The DCU-300 unit does not require cleaning to continue to operate effectively.
14. **FIRST AID INSTRUCTIONS:** If Injury occurs, contact your doctor or appropriate emergency services.
15. **WARNING: UV RADIATION EMITTED FROM THIS DEVICE.** Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in small doses, cause harm to the skin and eyes



# ABOUT YOUR UNIT

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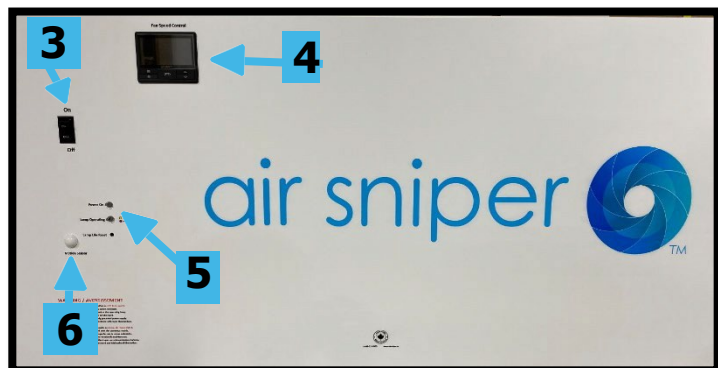
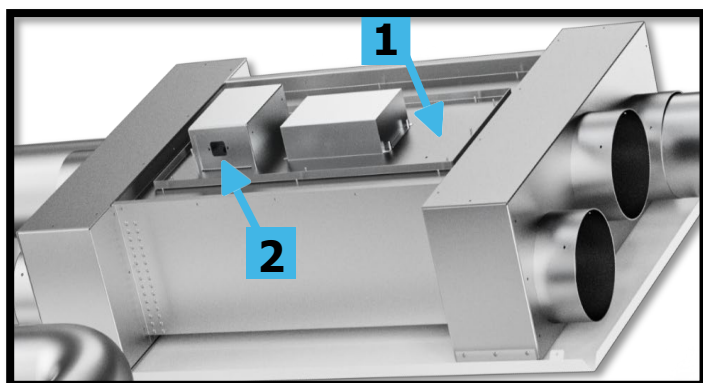
For more information on the DCU-300 unit and all other Air Sniper products and services, call (Toll Free) **1-888-338-9549**, visit [www.airsniper.ca](http://www.airsniper.ca) or email Air Sniper at [info@airsniper.ca](mailto:info@airsniper.ca) with any questions, comments or concerns.

## DESIGN

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The DCU-300 unit is made up of several key components listed below.

The DCU-300 unit is designed to be installed to allow for continuous supplemental purification of airflow up to 1,200 CFM. For greater airflow environments, multiple units may be necessary.



1. 300W UV-C Lamp (Enclosed)
2. Power Cord Port
3. On/Off Switch
4. Control Monitor
5. LED Indicators
6. Motion Sensor (Optional)



## FEATURES

- 300 Watt UV-C Induction Lamp
- 6+ Year Lamp Life (55,200 Hours)
- 3x Centrifugal In-Line Fan
- Easy-Fit Ceiling Tile Mount
- Plug & Play
- Control Monitor
- Bluetooth Enabled
- Optional Motion Sensor



## SPECIFICATIONS

### Power Supply

Single Phase, 100v - 240v - A/C 50/60 Hz

### Energy Consumption

5.5 Amp Max @100-120v - A/C Or

2.8 Amp Max @220-240v - A/C

### Operating Temperature Range

-25°C / 100°C

### Power Control Systems

On/Off Switch, Control Monitor, Optional Motion Sensor, Airflow Pressure Sensor

### Bulb Life

55,200 hours (6+ years) of high intensity UV-C.

### Electrical Safety Certification

Field Certified

### Ozone Certification

Field Certified

### Weight

Lamp Assembly: 15 lbs (7 kg)

Fan Assembly: 15 lbs (7 kg)

### Dimensions

Lamp Assembly: 11" (H) x 24" (W) x 48" (D)

Fan Assembly: 8.6" (H) x 24" (W) x 48" (D)

### Housing Material

Aluminum

### CFM

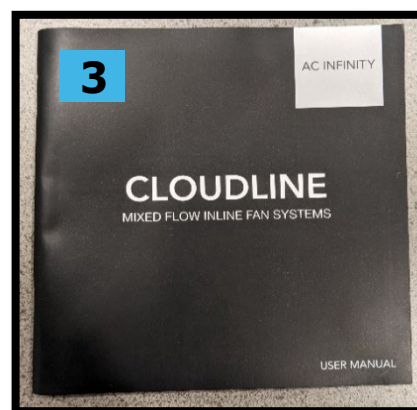
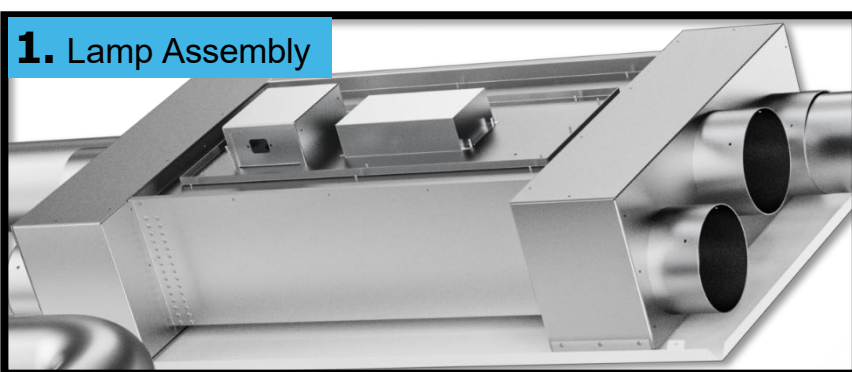
400-1,200 CFM



## INCLUDED PARTS

Included in the package you will find:

1. DCU-300 Lamp Assembly
2. DCU-300 Fan Assembly
3. AC Infinity Fan Manual
4. 10' Power Cable





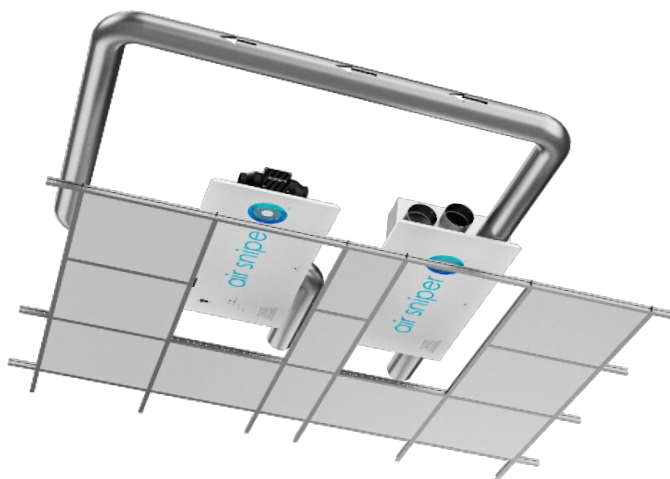
# INSTALLING YOUR UNIT



**CAUTION:** Use care when unboxing and handling your unit. Ensure adequate space is available for unboxing, installation, and operation prior to attempting to handle your unit. Ensure that the intended placement of your unit allows access to the necessary power requirements and does not create a hazard once connected.

## REQUIRED TOOLS

- Ladder for ceiling access
- Safety cables
- Drill/screwdriver
- Aluminum air duct tubing



## INSTALLATION

To Install the DCU-300 unit:

### 1. Remove from packaging

- a. Carefully remove your DCU-300 unit, 10' power cable and AC Infinity Fan Manual from the packaging.
- b. Inspect the unit and all components, make note of any damage or defects that may have occurred during shipment.

**If after opening your unit you notice any missing or damaged components, please contact your Air Sniper representative for immediate assistance.**

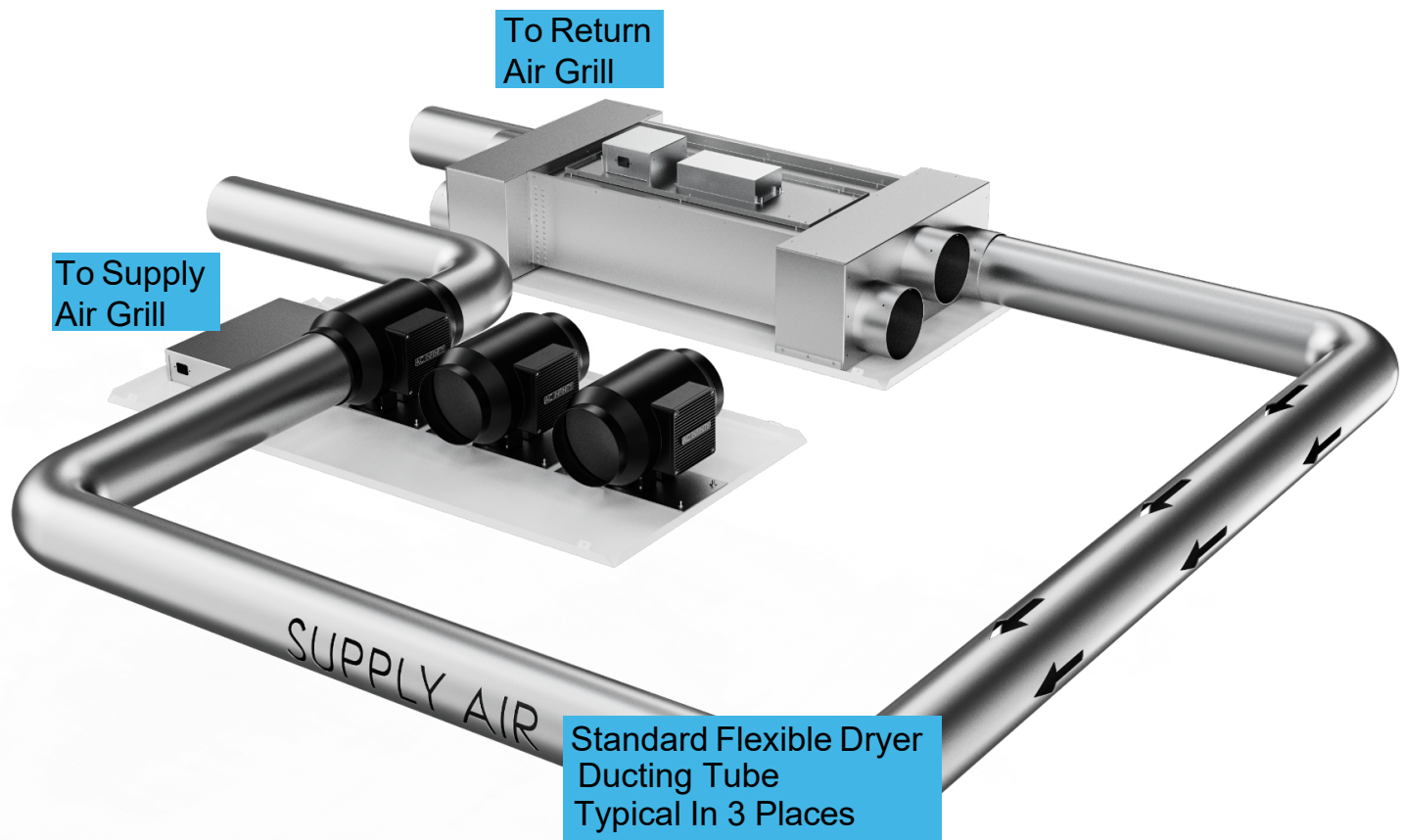
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## 2. Prepare location for installation

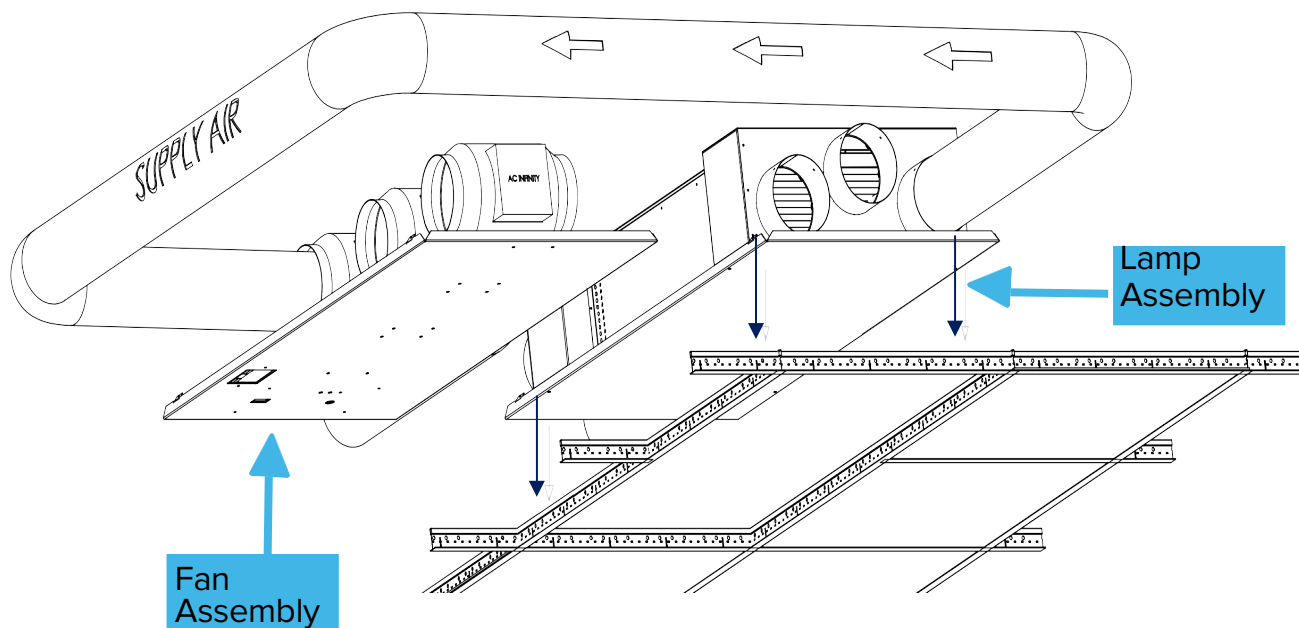
- a. Prior to installation of either the lamp or fan assembly, be sure to note where the units will be mounted and where the air intakes and outputs are intended to be. This will determine the amount of aluminum air duct tubing necessary to complete installation. If using the motion sensor add-on, consider the placement to ensure there will be a consistent detection of motion.
- b. The lamp assembly is designed to drop into a 24" x 48" space in a metal T-Bar ceiling, with at least 24" clearance above the T-Frame.
- c. The fan assembly is designed to drop into a 24" x 24" space in a metal T-Bar ceiling, with at least 17" clearance above the unit.
- d. Turn off all HVAC equipment prior to installation.



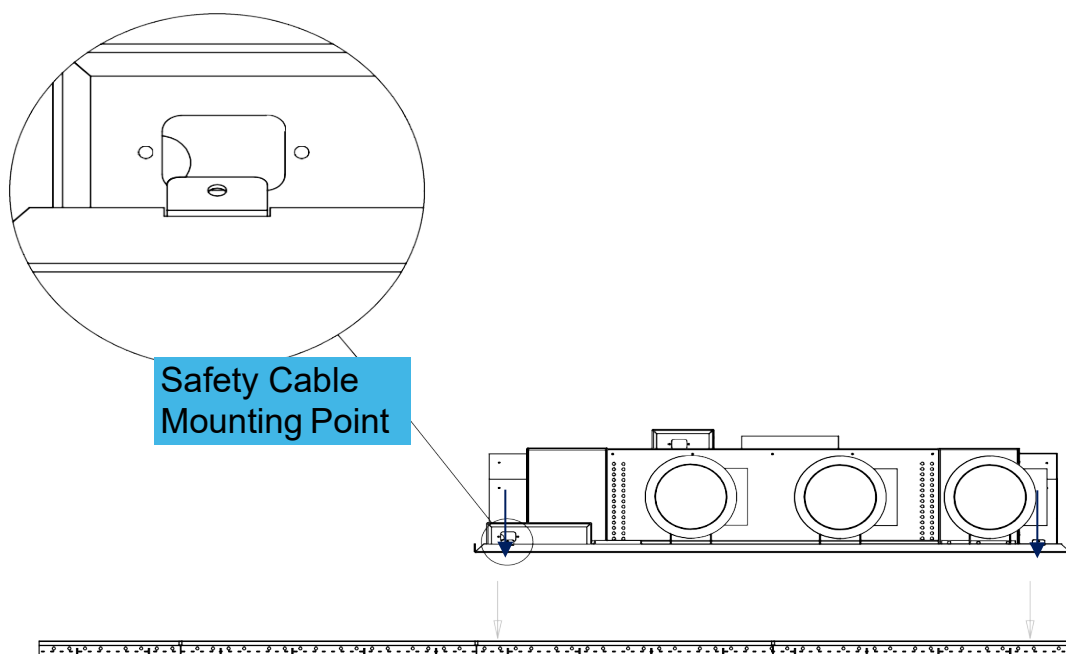


### 3. Installing the unit - Lamp Assembly

- a. Once a 24" x 48" opening in the ceiling has been prepared, drop the lamp assembly into the space.



- b. Secure the lamp assembly into the ceiling mount opening by connecting the support cables to the 4 connection points as detailed below.



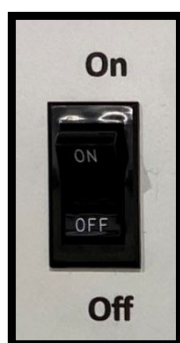


## 4. Installing the unit – Fan Assembly

- a. Once a 24" x 24" opening in the ceiling has been prepared, drop the fan assembly into place.
- b. The fan assembly is supplied with a power cord designed to connect with the lamp assembly. Ensure the mounting location allows for this connection.
- c. Secure the fan assembly into the ceiling mount by connecting the support cables to the 4 connection points same as the lamp assembly diagram. ([See page.10](#))
- d. Once the fan assembly is secured, using the aluminum air duct tubing, connect the fan assembly to the installed lamp assembly. ([See page.9](#))
- e. Attach the plug from the fan assembly to the lamp assembly and tidy up the length of the cord.

## 5. Installation Continued

- a. After the DCU-300 is secured, using aluminum air duct tubing connect the lamp assembly to the installed fan assembly. (Ensure that the number of ducts corresponds to the installed number of fans, block off all unused ducts on the unit.) Verify that the desired intake and output aluminum duct tubing is also installed.
- b. The DCU-300 is supplied with a 10' power cord with a standard male plug for connecting to a standard electrical outlet. The installer is responsible for connecting the 110 – 120v or 220 – 240v power correctly in the form of hard wiring a plug or utilizing an extension cord if needed.
- c. The DCU-300 is ready for operation. Turn on the unit by flipping the black **On/Off** switch and the “**Power On**” LED will illuminate green. The DCU-300 will activate as soon as adequate airflow is detected or the motion sensor is activated.





# INSTALLATION CONCLUSION




1. The **“Power On”** LED should illuminate, if not turn the unit back off and inspect the cable connections to verify the unit is properly connected.
  - a. If all the connections are correct and the outlet is tested to verify the unit is receiving power but the **“Power On”** LED still isn’t illuminated, turn your unit off and contact an Air Sniper representative.
2. Once airflow is detected, the **“Lamp Operating”** LED will illuminate, indicating the UV-C Lamp is on. If using optional motion sensor, the unit will turn on after detecting motion and remain on for 45 minutes to an hour if no further activation occurs.



## BULB STATUS

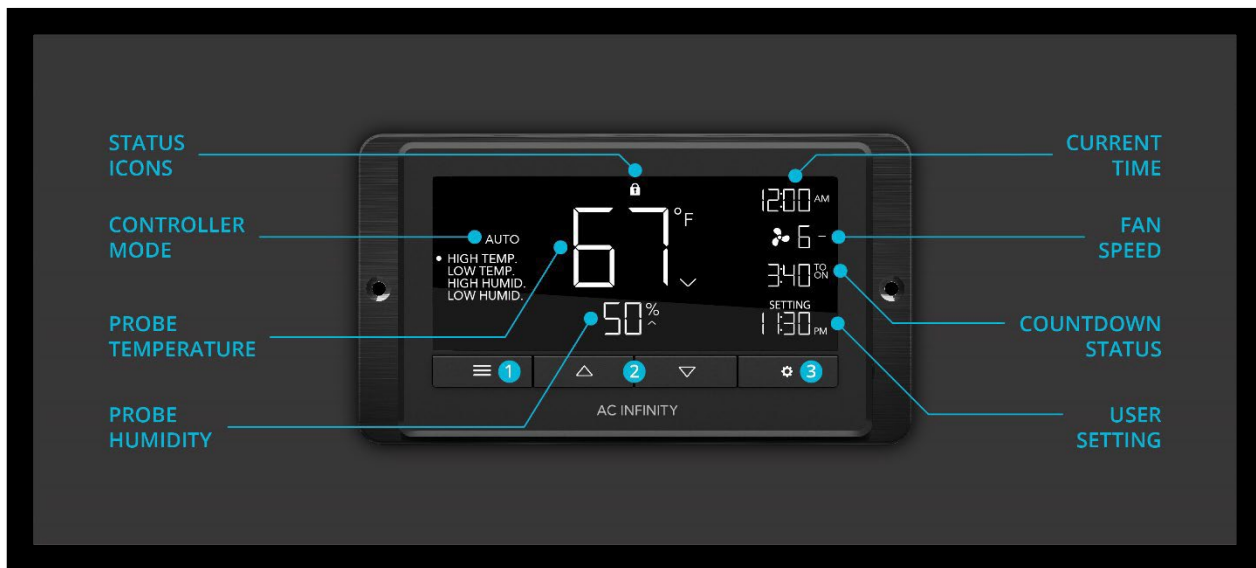
The **“Lamp Operating”** LED can illuminate three different colours, indicating differing bulb status.

The variations are as follows:

	Green: Lamp operating, the lamp is operating as intended.
	Yellow: Lamp life warning, the lamp is nearing the end of its lifespan, requires replacement in near future.
	Red: Lamp life exceeded, lamp has reached the end of its lifespan, requires immediate replacement.

When the **“Lamp Operating”** LED color is yellow indicating **“Lamp Life Warning”**, please contact your local distributor or an Air Sniper representative directly for a replacement.

# CONTROLLER DIAGRAM



1. **Mode Button** – Cycles through all of the controller's modes.
2. **Up/Down Buttons** – Adjusts the parameters of the mode or settings you are viewing.
3. **Setting Button** – Cycles through all of the controller's settings.

## PROGRAMMING MODES

- **OFF Mode** – Set the device to turn off.
- **ON Mode** – Set the device to run continuously at a level from 0 to 10.
- **AUTO Mode** – Set temperature and humidity triggers that will turn the device on or off.
- **TIMER TO ON Mode** – Set a one-time countdown that will turn the device on once it ends.
- **TIMER TO OFF Mode** – Set a one-time countdown that will turn the device off once it ends.
- **CYCLE Mode** – Set an on and off duration that your device will repeat continuously.
- **SCHEDULE Mode** – Set an on and off clock time that your device will repeat daily.

## SETTINGS THAT AFFECT PROGRAMMING

- **Max and Min Level Setting** – Set the maximum and minimum level a device can run at, which affects all modes.
- **Transition Setting** – Set the device to ramp up in levels gradually as the temperature and humidity gets further away from your set target. Only affects AUTO Mode.
- **Other Settings** – Other controller settings including switching between F° and C°, display brightness, sensor calibrations, and more.

# TROUBLESHOOTING

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If your unit is not operating as expected, there are several steps you can take to attempt to correct the problem.

If the “**Lamp Operating**” LED is not illuminating after powering on:

- Inspect the unit and the power cable to verify nothing appears damaged.
- Check that the selected power source is in fact providing power to the unit.
- Check that the On/Off switch is flipped to the on position.
- Once airflow is established, the lamp indicator light will be lit.
- Check that both ends of the 10’ power cable are securely connected to the unit and the power source.

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**WARNING:** Do not attempt to operate the UV-C lamp outside of the unit enclosure. UV-C radiation is extremely harmful to unprotected skin and eyes.

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## ADDITIONAL FACTORS

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Given that air pressure can change at differing elevations and differing humidity levels, for safety reasons the lamp requires a minimum value of airflow to ensure safety.

If the “**Lamp Operating**” LED is not illuminated and you’ve verified a correct setup and proper installation. Try increasing the airflow and/or fan speeds until it turns on.

If the “**Lamp Operating**” LED is not able to illuminate at any airflow and/or fan speed please contact your Air Sniper representative at **1.888.338.9549** or email us at **service@airsniper.ca**.

# REPLACING YOUR UNIT

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The DCU-300 unit uses a built in 300w UV-C lamp with a lifetime of 6+ years (55,200 hours, based on 24/7 operation).

To track the life of the lamp on your unit, check the “**Lamp Operating**” LED colour when the unit is powered on to determine the state of your unit. It is strongly recommended that the unit be replaced when the “**Lamp Life Warning**” yellow LED is illuminated.

When the lamp life has been exceeded, the LED will glow red. Contact your local distributor or Air Sniper representative to order replacements.

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**WARNING:** UV-C Lamps generate heat during operation, allow 20-30 minutes after unplugging the unit for the lamp to cool down.

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1. Disconnect the expired unit from the power source. The 10’ power cable can also be disconnected from the unit
2. Locate and remove the safety cables used to install the unit and carefully remove the aluminum air duct tubing before removing the unit from the ceiling.
3. Insert a new DCU-300 unit into the ceiling. ([Refer to Installation on page 8](#)).
4. Place and tighten the safety cables back into place, securing the unit onto the ceiling mount. Re-attach the aluminum air duct tubing.
5. Connect the 10’ power cable to the newly installed unit.
6. Using the On/Off switch, turn the unit on, verify “**Lamp Operating**” LED is illuminated.
7. Once the new unit is installed, carefully package the old unit with all included equipment to ship to your local distributor or directly to Air Sniper for store credit.





# WARRANTY

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AIR Alpine Innovative Research Inc. offers a limited five-year warranty on all our 300W products (excluding bulbs). In case of a discovered defect, we will replace or repair the unit. Extended Warranty is available.

## Limited Warranty Five Year Warranty

Alpine Innovative Research Inc. (AIR) warrants the Air Sniper™ unit to be free from defects in the workmanship or materials under normal use and service (the “Warranty”) for a period of three (5) years (the “Warranty Period”) from the date of purchase through an AIR-authorized dealer/distributor. During the Warranty Period, should an Air Sniper™ unit be determined to be defective, AIR shall repair or replace the defective Air Sniper™ unit(s) (at AIR or dealer’s option) within a reasonable period.

## Remedy Procedures

If the Air Sniper™ unit proves defective within the Warranty Period, the purchaser may choose one of the following remedies, after contacting AIR for a Return Authorization Number:

1. Return the defective Air Sniper™ unit to the dealer/distributor from whom it was purchased together with a copy of the bill of sale, or dated proof of purchase thereof and the Return Authorization Number; or 2. Ship the defective Air Sniper™ unit directly to Air Alpine Innovative Research Customer Warranty Department along with the Return Authorization Number.

## Limitations

This Warranty is the only representation regarding the Air Sniper™ unit, by Alpine Innovative Research Inc. of merchantability and fitness for use and shall extend to five (5) years from the date of purchase. The warranty excludes replaceable UV-C bulbs. If it is determined by either Alpine Innovative Research Inc. or an authorized dealer/distributor that the defect is the result of damage caused by the purchaser, the Warranty is null and void.

Contact us with any questions, comments or concerns pertaining to this warranty at Air Sniper by e-mail, telephone, or in-person at AIR, Alpine Innovative Research.

## Customer Warranty Department

(Toll Free): 1.888.338.9549

[info@airsniper.ca](mailto:info@airsniper.ca)

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