



**BLADE AIR**

# **User Manual**

**AIR SNIPER INDUCT 300W**

# IMPORTANT SAFETY INSTRUCTIONS

Read and follow all instructions prior to installation. Read the directions and all safety labels before operation. Failure to follow any instructions or labels may result in injury of the user or damage to the unit.

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

1. The Induct 300W Unit is intended to be used for air sanitization inside of a sealed air chamber. Do Not attempt to operate the UVC Lamps outside of a 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 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 Blade.
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 UVC leaks.
6. UVC Lamps contain small amounts of Mercury. If the lamp is broken or damaged, clean and dispose of it properly as per local safety regulations.
7. This unit is not a toy, keep out of reach of children.
8. It is recommended a minimum of 2 people present when installing the unit. Units can be heavy and require care and precision when installing.
9. Blade products are not waterproof. Do Not attempt to use your unit in a wet environment.
10. Blade products are designed for INDOOR USE ONLY. Do Not attempt to install your unit outdoors.
11. 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.

### FIRST AID INSTRUCTIONS:

If Injury occurs, contact your doctor or appropriate emergency services.

### WARNING: UV RADIATION EMITTED FROM THIS DEVICE

Unintended use of the device, or damage to the housing, may result in exposure to Ultraviolet Radiation. Ultraviolet radiation may cause irritation to skin and eyes. Avoid exposing eyes and skin to ultraviolet radiation

### FOR INQUIRIES REGARDING THE UNIT CONTACT:

service@bladeair  
bladeair.com/support  
(416) 701 0201

## DESIGN

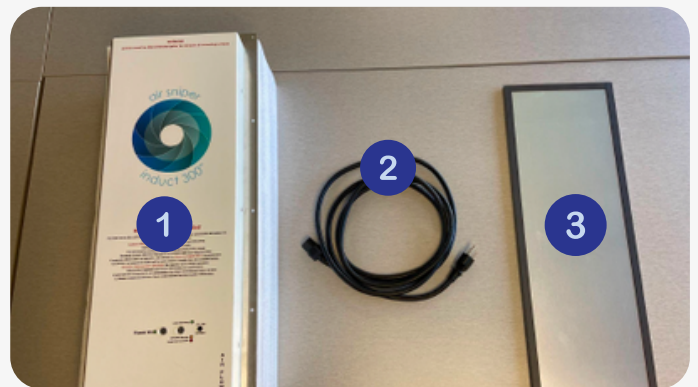
The Induct 300W Standard unit is designed to be installed in either the Return or Supply plenum of HVAC equipment, allowing for continuous sanitization of airflow up to 2,500 CFM. For greater airflow environments, multiple units may be necessary.

The Induct 300W is made up of several key components listed below.

## WHATS IN THE BOX?



- 1 300W UVC Lamp
- 2 110V Power Cord Port
- 3 On/Off Switch
- 4 LED Indicators



- 1 Air Sniper 300W Unit
- 2 Power Cable
- 3 4 x Magnetic lined Reflective Panels (22 3/4" x 8" each)

## SPECIFICATIONS

### Power Supply

110 V 50/60 Hz

### Energy Consumption

3.2 A @ 110V

### Operating Temperature Range

-20°C / 100°C

### Power Control Systems

On/Off Switch

Airflow Differential Pressure Switch/Sensor

### Dimensions

25" (H) x 10" (W) x 5.36" (D)

### Bulb Life

55, 200 Bulb life hours of high intensity UVC

### Electrical Safety Certification

ETL certified for USA and Canada

### Ozone Certification

UL 2998

### Weight

15 lbs

### Housing Material

Aluminum

# INSTALLING YOUR UNIT

## Required Tools

- Drill bit to initiate cut-out puncture
- Sheet metal tin snips or appropriate cutting equipment
- 12 #8 Tek screws
- Drill for Tek screws

## Installation

**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.

**WARNING:** Before starting installation, map out the area where to install the unit to ensure space and electrical supply.

### STEP 1: Remove from box

- Carefully remove your Induct 300W unit, 10' power cable and reflective panels from the shipping box
- Inspect the Unit and all components, note any damage or defects

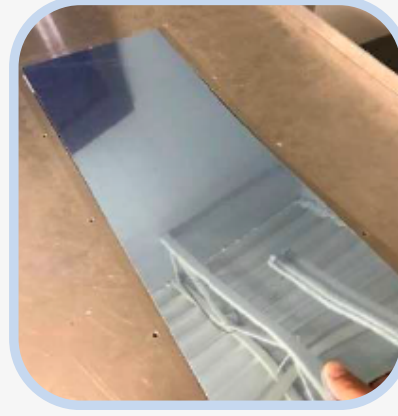
### STEP 2: Prepare for location and installation

- Determine the best location to install your unit. Both return and supply ducting locations are acceptable for installation. Return air installation can assist with coil cleaning. For more information on the best locations for your unit, consult the installation parameters in this manual or contact Blade.
- Once an installation location has been determined, take note of the direction of airflow within the duct for installation. This arrow needs to match the direction of the duct airflow and mount the unit accordingly (airflow direction is marked at the bottom right of the unit, see Fig 1. on the next page).
- Turn off all HVAC equipment prior to installation. Ensure that all exterior insulation of the HVAC duct is cut 2" back from the location of installation.
- Using one of the included reflective panels as a template, identify and mark the intended cut-out location for mounting the Induct 300W unit and trace the panel of where the unit will be installed. The traced rectangle should have the following dimensions: 22 ¾" x 8". (see Fig. 2 on the next page)

**Figure 1**



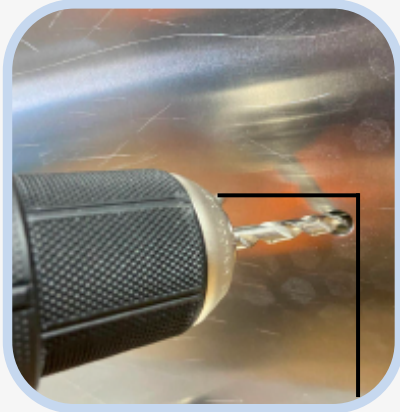
**Figure 2**



### STEP 3: Cutting into duct

- Drill a hole large enough on one of the corners of the outline as a starting point to cut out the opening in the duct for the unit to be installed. Ensure that the drill hole is made within the perimeter traced in Step 2 as not to leave a gap once the unit is installed. (See Fig. 3 below)
- Using the sheet metal snips (or appropriate cutting device), carefully follow the trace, slowly cutting out the opening where the unit is to be installed (See Fig. 4 below)

**Figure 3**



**Figure 4**



### STEP 4: Placing Reflective Panels

- Remove blue protective plastic on the provided magnetic reflective panels. (See Fig. 5 below)
- Carefully place the unit through the cut-out of the duct work
- Using your drill and the 12 #8 Tek screws and the pre-drilled mounting holes around the unit, secure the unit into the duct work where you cut into.
- Mount the unit and inspect the unit a final time, ensuring the balast is flush with the duct and the unit is secure.

**NOTE:** When mounting, it is strongly recommended to consider a scheme that allows easy access for maintenance and unit replacement.

## DIRECTIONS FOR USE

**STEP 1:** Connect the Power Cable to the unit

**STEP 2:** Turn the unit on using the On/Off switch located on the right side of the white front panel

**STEP 3:** Once airflow is detected, the UV lamp will illuminate and the "Lamp Operating" LED will turn on. (See Fig. 5/6)

Figure 5



Figure 6



## BULB STATUS

**NOTE:** The "Lamp Operating" LED will glow three different colours, indicating different bulb status.



**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 yellow "Lamp Life Warning" colour is shown, please contact your local distributor or Blade directly for a replacement. The Induct 300W is designed as a complete unit, therefore when the bulb expires, the entire unit must be replaced.
- The Induct 300W is designed to sanitize in an environment with an airflow of 500 CFM to a maximum of 2,500 CFM. If your particular application handles greater airflow, contact Blade for options that may be better suited to higher airflow environments.

## TROUBLESHOOTING

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

**WARNING: DO NOT ATTEMPT TO OPERATE THE UV-C LAMP OUTSIDE OF THE DUCT. UV-C RADIATION IS EXTREMELY HARMFUL TO UNPROTECTED SKIN AND EYES.**

### IF THE BULB IS NOT OPERATING:

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

If the “Lamp Operating (Bulb Life) LED is Red, the bulb has expired. Contact your local distributor or Blade Air to replace the unit.

## REPLACING YOUR UNIT

### REQUIRED TOOLS

- New Induct 300W Unit
- Flat Head Screwdriver or Drill

The Induct 300W Unit uses a built-in 300W UV-C Lamp with a lifetime of 5 years (43,000 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 activated to determine the state of your unit.

It is strongly recommended that the unit be replaced when the Lamp Life Warning LED is illuminated (LED glows Yellow) than when the Lamp life has been exceeded (LED glows Red). Contact your local distributor or Blade to order replacement units.

## REPLACEMENT

1. Disconnect the expired unit from the power source. The 10' power cable can also be disconnected from the unit (The "Power On" LED will not be illuminated as the unit has been unplugged).

**WARNING: UV-C Bulbs will heat during operation, allow 20-30 minutes after unplugging the unit for the bulb to cool off.**

2. Locate and remove the 12 #8 Tek screws (located around the Powder Aluminium Cover) and carefully remove the unit from the duct.
3. Insert a new unit into the duct.
4. Place and tighten the 12 #8 Tek screws back in place, securing the unit into the duct.
5. Connect the power cable to the unit.
6. Using the On/Off switch, turn the unit On, the "Power On" unit will illuminate Green.
7. Ensure that airflow is provided in the duct to activate the unit. When Airflow is detected, the lamp will illuminate, and the "Lamp Operating" LED will be activated.
8. Once the new unit is installed, carefully package the old unit and all old equipment to ship to your local distributor or direct to Blade for core credit.



## WARRANTY

We take pride in the quality of our products. As such, Blade Air Inc. ("Blade Air") warrants the Air Sniper™ to be free from defects in the workmanship or materials under normal use and service in accordance with our instructions (the "Warranty") for a period of five (5) years (the "Warranty Period") from the date of purchase through an authorized dealer or distributor. During the Warranty Period, should a product be determined to be defective, Blade Air will repair or replace the defective unit(s) (at Blade Air or the applicable dealer or distributor's option) within a reasonable period. Replacement will be made with a new or remanufactured product or component. The Warranty is the only representation regarding the products covered by this manual and Blade Air Inc. disclaims all other warranties, including any implied warranties of merchantability or fitness for use. The Warranty does not cover normal wear and tear of parts or damage resulting from any of the following: negligent use or misuse of the product (including use other than in accordance with our instructions), use on improper voltage or current, repair, or alteration by anyone other than a Blade Air authorized service technician. The Warranty does not cover acts of god such as fire, flood, hurricanes, earthquakes, and tornadoes. Blade Air shall not be liable for any damages of any kind resulting from the purchase, use or misuse of, or inability to use the product including incidental, special, consequential or similar damages or loss of profits, or for any breach of contract, fundamental or otherwise, or for any claim brought against purchaser by any other party. Some provinces, states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you.

## FOR CUSTOMER SERVICE INQUIRIES

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