AIRBOTX



Airbotx X-Series

440X USER MANUAL

Airbotx

Operation & Maintenance Guideline

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About Airbotx 440X

The Airbotx 440X uses ultraviolet (UV) light with two different wavelengths in the C range (UV-C), the most energetic and effective portion of the UV spectrum. The UV-C chamber generates hydroxyl radicals and other reactive oxygen species (ROS) that eliminate odors and inactivate airborne pathogens.

These radicals eliminate odors throughout the entire treatment space – including odors adsorbed by porous materials and surfaces. They are effective against a wide range of odors, including those from fires, sewage, cigarettes, marijuana, pets, curry, oils, and other volatile organic compounds (VOCs).

The Airbotx 440X continuously improves indoor air quality by inactivating airborne pathogens such as SARS-CoV-2, E. coli, and MRSA. Third-party testing by Element Laboratory confirms that the 440X delivers UV-C output capable of achieving a 6-log reduction (99.9999%) of viruses like SARS-CoV-2 in only 60 minutes. This technology is safe for use around sensitive materials and items, as it does not cause fading, corrosion, or other forms of damage.

The Airbotx 440X incorporates both MERV-10 and HEPA filtration to capture dust, pollen, mold spores, and other particulates 0.3 microns and larger. HEPA is the highest standard of filtration available and is widely used by Cleaning and Restoration Industry professionals.

Together, proprietary UV-C technology and HEPA filtration make the Airbotx 440X the most effective portable, commercial-grade air purification system on the market.



Airbotx 440X Applications

The Airbotx 440X is designed to be used in areas with problematic odors and/or pathogens.

Common applications include:

- Cleaning & Disaster Restoration
- Schools and Universities
- Senior Living Facilities
- Hospitality
- Office Buildings
- Hospitals and Medical Facilities

Product Specifications

MODEL	440X
Dimensions	25 x 40 x 18 in. / 63.5 x 101.6 x 45.7 cm
Weight	67 lbs. / 30.39 kg
Power	5 amps (120V, 60 Hz, 550 W)
IP Rating	IP 20
Number of UV Lamps	4
Airflow	Variable to 700 CFM
Static Pressure	2.5 in. / 5.08 cm (H2O)
Sound Level	Low: 65 dB; High: 75 dB
Filters	Pre-filter: 14 x 14 x 1 in. MERV 10 HEPA: 14 x 14 x 2 in.
Power Cord	25 ft. / 6.1 m
Warranty	One Year Parts & Labor

Important Safety Instructions

SAFETY WARNINGS - READ AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BEFORE USING THIS DEVICE. SAVE THESE INSTRUCTIONS.

WARNING	
Read safety instructions in the user manual before operating..	
The lamps inside this unit emit UV-C irradiation. Skin or eye damage may result from direct exposure or viewing the light they produce.	
Always disconnect power before removing lamps or servicing.	
To reduce the risk of fire, electric shock, injury, or death, do not expose unit to water or rain. Always plug unit into GFCI protected receptacles. Do not operate unit with a damaged cord or plug. Do not use solid-state speed controls.	
Solely for industrial use. Potential hazard: emits ozone.	
Replace lamps only with Model No. ABX-02-TU64-620-1.00 Send damaged units to Airbotx, LLC or an Approved Airbotx Dealer for repairs.	

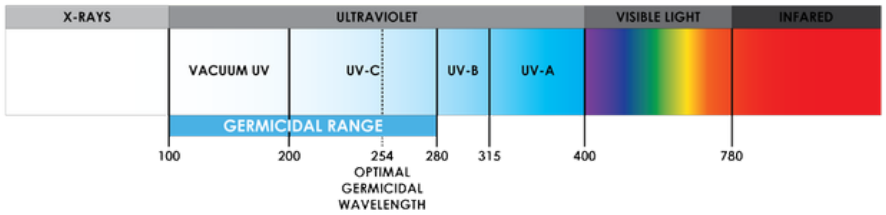
How it Works

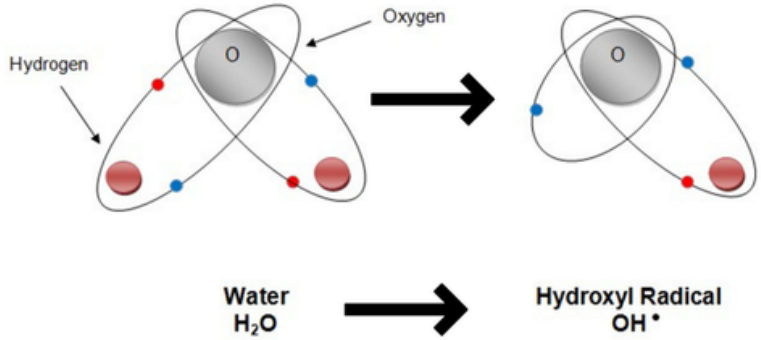
The Airbotx 440X utilizes proprietary UV-C lamp technology to generate hydroxyls and other radicals that eliminate odors, volatile organic compounds (VOCs), and inactivate airborne pathogens within the treated space.

Each UV-C lamp contains two wavelength sections measured in nanometers (nm):

- 185 nm, which generates ozone
- 254 nm, which subsequently breaks down the ozone

As ozone is created and then decomposed by these wavelengths, hydroxyls and other radicals are produced. While the 254 nm section destroys the majority of ozone generated, a small amount of residual ozone may still be released.





Precautions

Individuals who may be sensitive to ozone—including those with respiratory conditions, children, elderly individuals, and pets—should not be exposed to ozone. The Occupational Safety and Health Administration (OSHA) regulates workplace ozone exposure with the following limits:

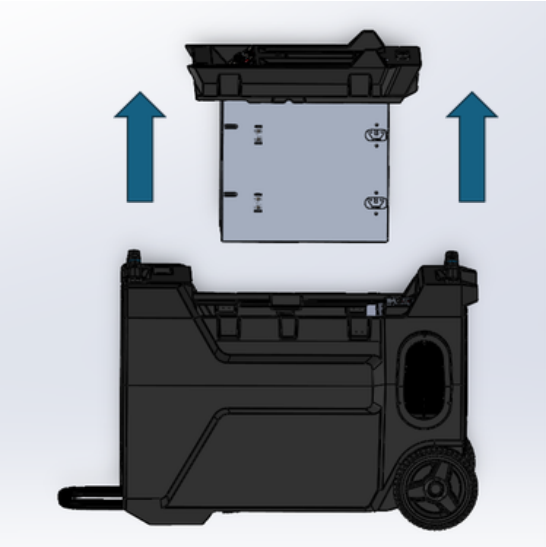
- Permissible Exposure Limit (PEL): 0.1 parts per million (ppm) averaged over an 8-hour work shift
- Short-Term Exposure Limit (STEL): 0.3 ppm for a 15-minute period

Ozone concentration can be reduced through adequate air exchange provided by HVAC systems and by increasing ventilation – such as opening doors and windows.

User Servicing Instructions

- Do not use if any of the cords, plugs, fans, or lamps are damaged.
- Do not use if machine is not working as it should, has been dropped, damaged, left outdoors, or exposed to water.
- Send all Airbotx units needing service or repair to Airbotx, LLC or an Approved Airbotx Dealer.

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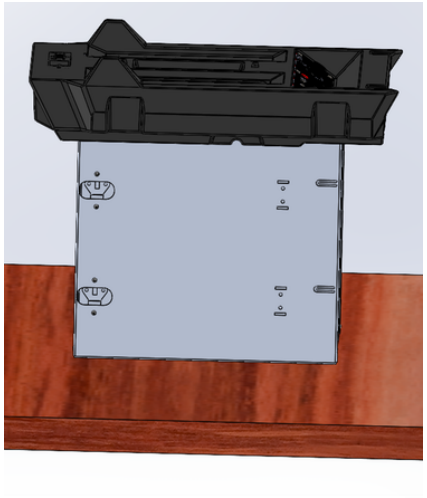


Getting Started

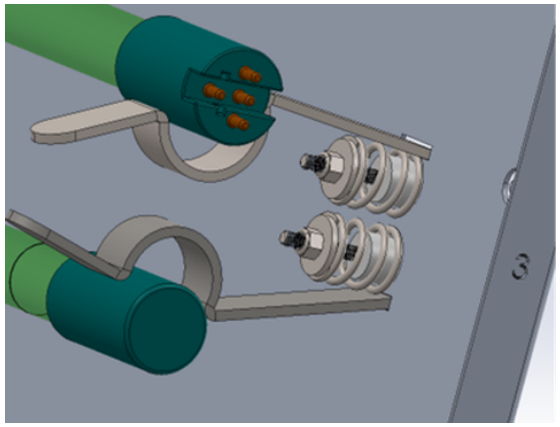
1. Release the four latches and pull the chamber out of the Airbotx machine (see image 1).
2. Put the chamber on a flat surface, and place each lamp in the clamps that hold them (see images 2, 3, and 4).
3. Attach wire harnesses to lamps (see image 5).
4. Ensure everything is secure, place the chamber back in the Airbotx machine, and lock the four latches (see image 6).
5. OPTIONAL: Place the black cap over either discharge louver for airflow to exit on only one side of the machine (see image 7). Cap will lock into place without the need for any additional items.

Your 440X is now ready to operate!

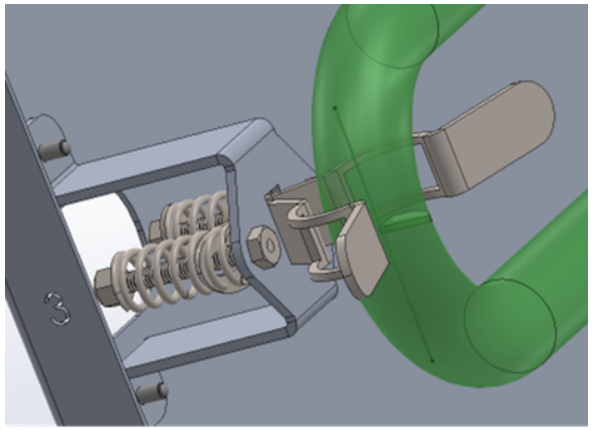
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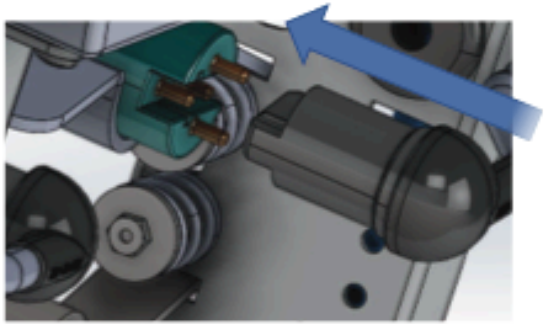
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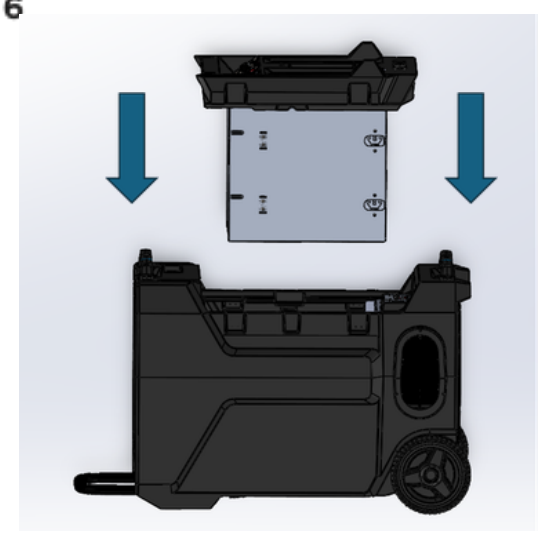
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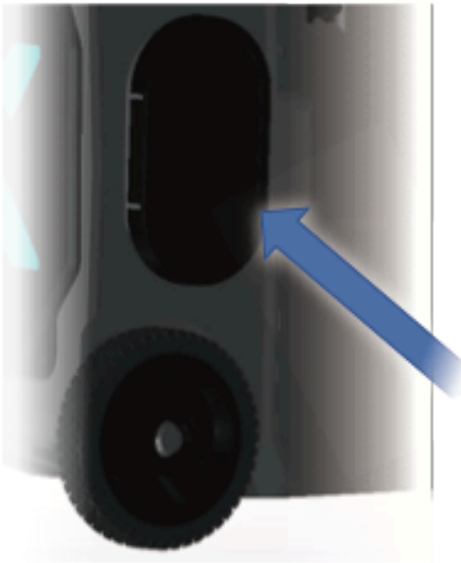
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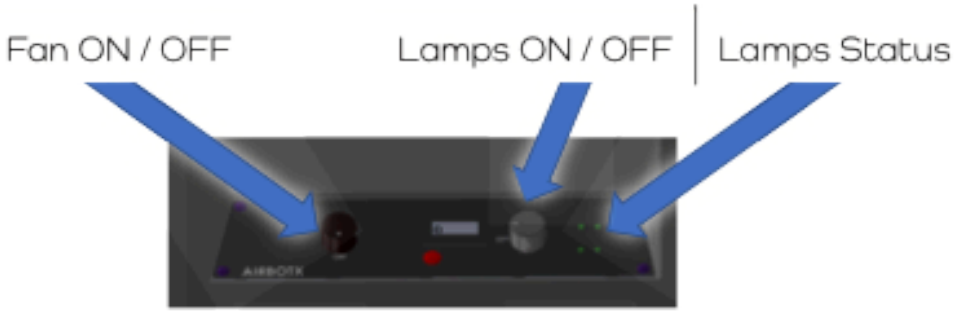
Operational Guidelines

1. Unwrap the power cord and connect it to the Airbotx machine.
2. Place the 440X in either the horizontal or vertical position.
3. Plug the cord into a standard 110/120V GFCI-protected outlet.
4. Turn on the 440X using ON/OFF button (see image 8).
5. Set the number of UV lamps you want to operate by using the control panel. Refer to Coverage Area for recommendations. The number of lamps being used can be adjusted while the machine is operating (see image 9). Lamps will only operate while fan is running.
6. Adjust fan speed by using the control panel (see image 9).

8



9



*Only qualified and trained technicians are permitted to operate this equipment. This system must not be used in occupied spaces unless ozone levels are continuously monitored with appropriate sensors. Operators must comply with all state and local regulations regarding ozone exposure thresholds.

Coverage Area for 440X

Number of UV Lamps	Recommended Coverage Area*	Do Not Use in Occupied Areas Less Than*
4	1,000 – 2,000 sq. ft.	500 sq. ft.
3	750 – 1,500 sq. ft.	375 sq. ft.
2	500 – 1,250 sq. ft.	250 sq. ft.
1	250 – 1,000 sq. ft.	125 sq. ft.



*Square feet of areas determined with ceiling heights at a minimum of nine feet. It is important to note that individual job conditions may vary and should be properly monitored to ensure safe working conditions. Only qualified and trained technicians should operate this equipment.

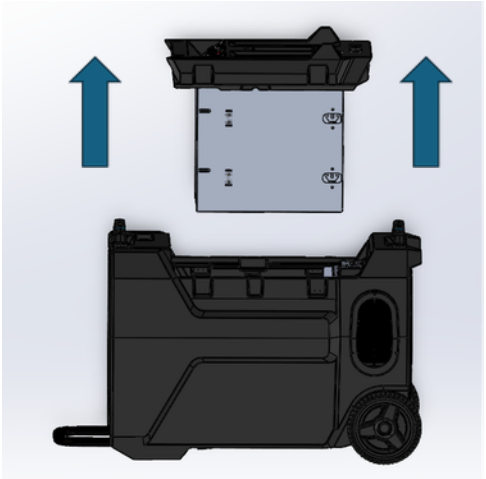
Visit www.airbotx.com for additional training and tips.

Cleaning & Maintenance

Materials you will need:

1. Latex gloves
2. Lint-free cloth or rag
3. Mix one part isopropyl alcohol with ten parts distilled water in a spray bottle
4. Phillips screwdriver

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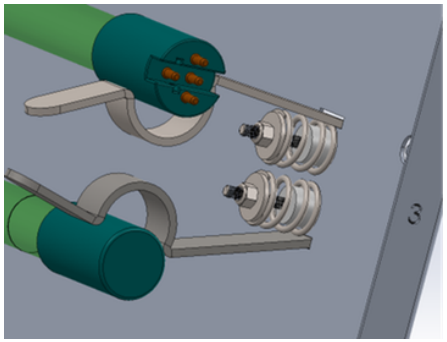
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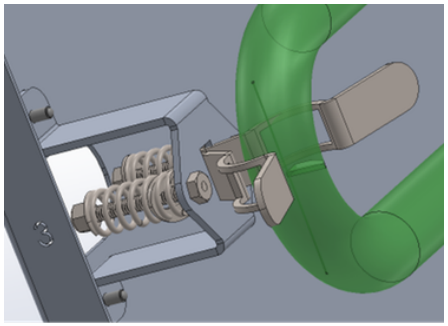
Instructions for cleaning:

1. Turn off the power supply and unplug the cord. Never open the doors or remove the chamber while the machine is turned on.
2. Release the four latches and pull the chamber out of the Airbotx machine (see image 10) and place on a flat surface (see image 15).
3. Open and remove the side panel door by unlocking it and rocking it back (see image 11).
4. Remove all filters and replace if needed. The red LED light on the control panel will indicate when the primary HEPA filter needs to be replaced.
5. Remove the UV lamps for proper cleaning as follows: With a firm grip on the upper ceramic end piece of UV lamp, use your other hand to grip the ceramic wiring harness connector. Now 'wiggle' and gently pull ceramic harness connector end from the ceramic lamp end (see image 14). Using both hands, remove the UV lamps from each retention clip once the wiring harness connection is separated and before any other machine cleaning takes place (see images 12 and 13).

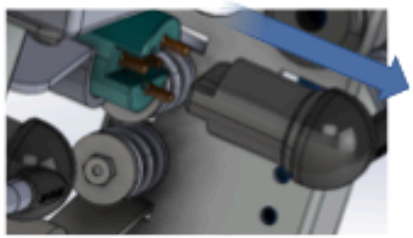
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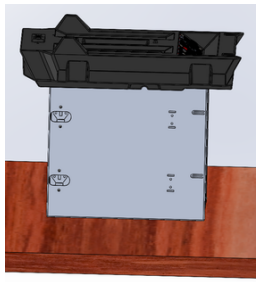
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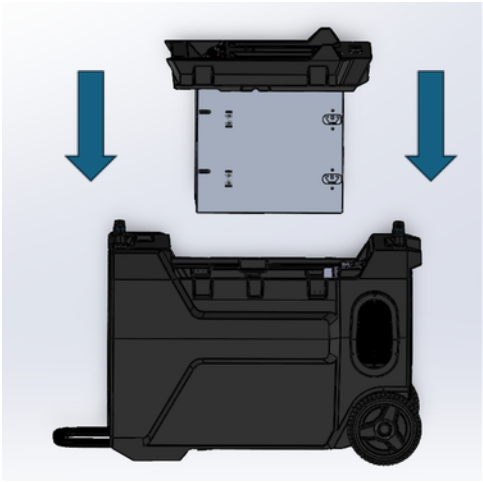
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16



6. Once everything has been removed, wipe down all UV lamps with the 10:1 water to alcohol solution listed above. Be sure to wear latex gloves when handling the UV lamps, and always use a lint-free cloth or rag. Fingerprints and smudges will diminish the performance of the UV lamps.
7. Wipe down all interior and exterior surfaces with the same solution and lint-free cloth or rag, or, vacuum the areas to remove any debris. Do not use chemicals or other cleaning agents.
8. Again using both hands, place the UV lamps back in the retention clips and reassemble the connection of the ceramic wiring harness (female) to the ceramic lamp end (male) with a gentle wiggle action.
9. Ensure everything is secure, place the chamber back in the Airbotx machine, and lock the four latches (see image 16).
10. Put the side panel door back in place and lock.

Parts & Service

Only replace UV lamps with Lamp Model No. ABX-T6U64-610-1 manufactured by Airbotx, LLC.

For parts and service, contact your local dealer or Airbotx:

Airbotx
16525 Southpark Drive
Westfield, IN 46074
Phone: (317) 981-1811
Email: support@airbotx.com

Proper Disposal of UV Lamps

UV lamps contain minimal amounts of mercury, which is a hazardous waste. They should not be disposed of with house-hold waste. Please dispose of lamps in accordance with your local, state, and federal regulations.

Warranty Registration

Airbtox, LLC warrants that the Airbotx machine will be free from defects in material and workmanship for a period of one year from the date of original purchase. Register your product at www.airbotx.com/warranty. Before you begin the registration, have the product serial number ready to input.