

## Aerus A1013P, X147888M, 9960052, X167109N

# Aerus Air Scrubber Ozone Free Instruction Manual

Models: A1013P, X147888M, 9960052, X167109N

## 1. INTRODUCTION

The Aerus Air Scrubber is an advanced air purification system designed for integration with existing Heating, Ventilation, and Air Conditioning (HVAC) systems. It utilizes ActivePure Technology to actively reduce airborne and surface contaminants, thereby improving indoor air quality. This manual provides essential information for the safe installation, operation, and maintenance of your Aerus Air Scrubber.



**HVAC ENVIRONMENTAL CONDITIONING SYSTEM**  
**SYSTÈME DE CONDITIONNEMENT D'AIR CVC**

**UV LAMP in operation when lit. | Lampe UV en marche lorsque le voyant est allumé**

**WARNING:** UV light source. Disconnect power before servicing.  
This device complies with Part 18 of the FCC Rules  
Hg-Lamp CONTAINS MERCURY Manage in accordance with disposal laws: [www.lamprecycle.com](http://www.lamprecycle.com)  
**AVERTISSEMENT:** Source lumineuse ultraviolette. Débranchez l'alimentation avant tout entretien.  
Cet appareil est conforme aux dispositions de la section 18 du règlement FCC  
La lampe à vapeur de mercure CONTIENT DU MERCURE. Manipuler conformément à la loi d'élimination des déchets en vigueur: [www.lamprecycle.org](http://www.lamprecycle.org)

**MODEL**    **MODÈLE**    **A1013P**  
**SERIAL N° DE SÉRIE**    **X147888M**  
**24Vac~ 50/60Hz 1.0A 17W**

**EPA**  
Est. Reg. No. **087327-VA-001**

MADE IN U.S.A.    **DBG Group Investments, LLC**  
FABRIQUÉ AUX É.-U.    300 East Valley Drive  
Bristol, VA 24201

**RoHS COMPLIANT**    **CE**    **PS**    **UL**  
ELECTRICAL SAFETY    LFR1304    Certified to:  
UL 1598/C22.2 No. 250.0-08

**WARNING:** THIS PRODUCT IS DESIGNED FOR USE WITH GERMICIDAL AND MUST BE INSTALLED IN COMPLIANCE WITH COMPETENT DIRECTIONAL DIRECTIONS SO THAT THE USER'S EYES AND BARE SKIN WILL NOT BE SUBJECT TO ULTRAVIOLET RAYS.

**AVERTISSEMENT:** LA LUMIÈRE ÉMISE PAR LA LAMPE INTÉGRÉE À CE PRODUIT PEUT PROVOQUER DES LÉSIONS AU NIVEAU DES YEUX SI ELLE EST OBSERVÉE DIRECTEMENT. ÉTEIGNEZ TOUJOURS LA LAMPE OU DÉBRANCHEZ L'UNITÉ AVANT D'OUVRIRE CE COUVERCLE.

**WARNING:** THIS UNIT IS PROVIDED WITH AN INTERLOCK TO REDUCE THE EXCESSIVE ULTRAVIOLET RADIATION. DO NOT DEFEAT ITS PURPOSE OR ATTEMPT TO SERVICE WITHOUT REMOVING COVER COMPLETELY.

**AVERTISSEMENT:** CET APPAREIL EST ÉQUIPÉ D'UN DISPOSITIF DE VERROUILLAGE DESTINÉ À RÉDUIRE LE RISQUE DE RADIATION ULTRAVIOLETTE EXCESSIVE. NE NUISEZ PAS À SON BON FONCTIONNEMENT ET NE PROCÉDEZ À AUCUN ENTRETIEN SANS QUE LE COUVERCLE NE SOIT TOTALEMENT RETIRÉ.

**Figure 1:** Aerus Air Scrubber unit with Certified Space Technology branding, highlighting its core function as an HVAC environmental conditioning system.

## 2. SAFETY INFORMATION

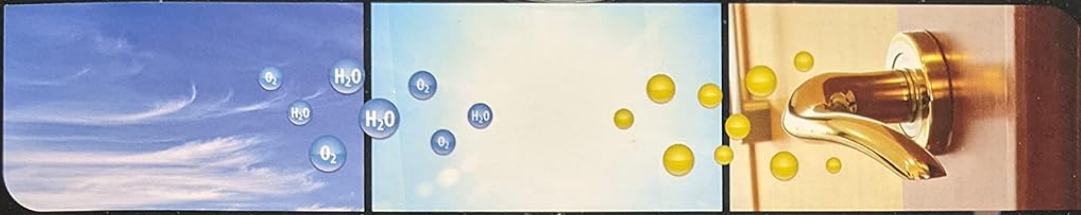
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Please read all safety warnings carefully before installing, operating, or servicing this device. Failure to comply with these instructions may result in serious injury or damage to the product.

- **UV Light Source:** This product contains a UV light source. Direct exposure to UV light can cause eye damage. Always disconnect power to the unit before opening the cover or performing any service.
- **Interlock Mechanism:** The unit is equipped with an interlock mechanism to reduce the risk of excessive ultraviolet radiation exposure. Do not attempt to defeat this interlock or service the unit without completely removing the cover.
- **Mercury Content:** The lamp inside this device contains mercury (Hg). Dispose of the lamp in accordance with local, state, and federal regulations. For more information on proper disposal, visit [www.lamprecycle.org](http://www.lamprecycle.org).
- **Ozone Free:** This Aerus Air Scrubber model is designed to operate without emitting ozone.
- **Professional Installation:** While installation can be performed by a knowledgeable individual, it is recommended that a qualified HVAC technician install the unit to ensure proper integration and operation within your HVAC system.

## HOW IT WORKS

Our proprietary technology uses light waves and a catalytic process to produce scrubber ions that travel through the ductwork into every corner, effectively treating and purifying the entire space. This ActivePure Technology continuously protects and purifies the air, and attacks contaminants on all surfaces.



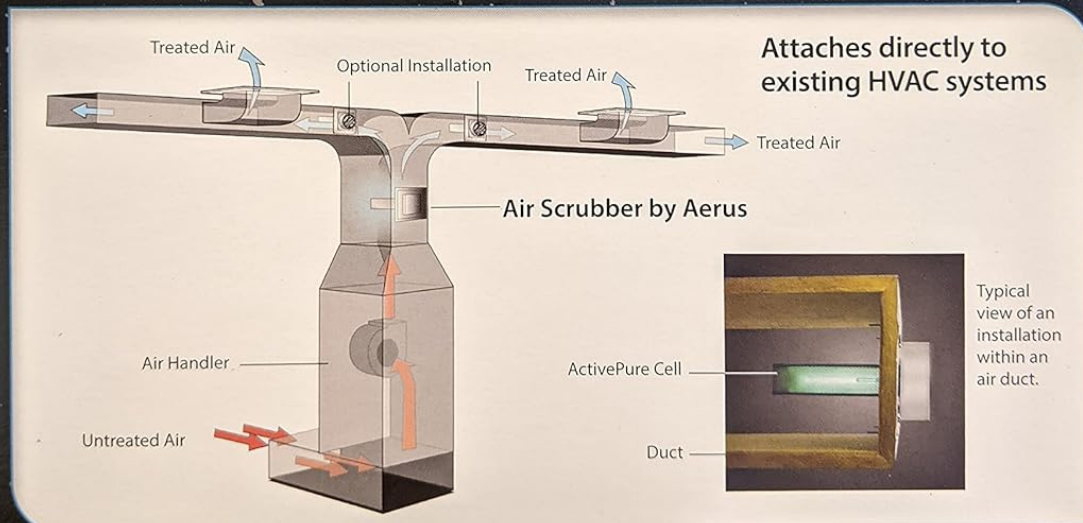
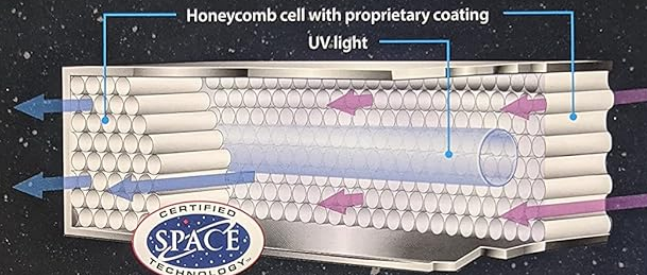
Oxygen and humidity are converted into oxidizers

Using a process similar to natural sunlight

Oxidizers surround surfaces to control contaminants

### ActivePure® Technology

1. Uses oxygen and humidity from the air
2. Converts them into powerful oxidizers
3. Oxidizers destroy microorganisms in the air and on surfaces
4. Oxidizers attack pathogens on contact
5. Developed for astronauts – effective and safe for everyone



HG-LAMP CONTAINS MERCURY.  
Manage in accordance with disposal laws: [www.lamprecycle.org](http://www.lamprecycle.org)

DBG Group Investments, LLC  
300 East Valley Drive, Bristol, VA 24201 USA Ph: 866.736.0503

**OZONE-FREE**  
**9960052**



Figure 2: Product label displaying safety warnings, electrical specifications (24Vac ~ 50/60Hz 1.0A 17W), and model/serial numbers.

## 3. PRODUCT OVERVIEW

### 3.1 Key Features

- **ActivePure Technology:** Utilizes a patented catalytic process to generate powerful oxidizers that travel through the ductwork, treating and purifying air and surfaces throughout the conditioned space.
- **Ozone Free:** Engineered to provide air purification without producing ozone.
- **People and Pet Safe:** The technology is designed to be safe for occupants, including people and pets.

- **HVAC Integration:** Attaches directly to existing HVAC systems for whole-home air treatment.

### 3.2 How ActivePure Technology Works

The ActivePure Technology converts oxygen and humidity from the air into powerful oxidizers. These oxidizers destroy microorganisms in the air and on surfaces, and attack pathogens on contact. This process is developed for astronauts and is effective and safe for everyone.

## BENEFITS OF ACTIVEPURE TECHNOLOGY

### ActivePure Technology Reduces Influenza Virus (H5N8) and Flu Related Absenteeism

Hours of Treatment	Percent of Inactivation of H5N8
0 hrs	0%
2 hrs	~35%
4 hrs	~55%
8 hrs	~75%
12 hrs	~85%
24 hrs	100%

Percent of Inactivation of H5N8 (Energy by Ames, Iowa University)

- **ActivePure Technology removes or destroys up to 99% of all surface and airborne contaminants**
- **Creates cleaner, safer living environments**
- **Purifies air, removes VOCs, and significantly reduces odors**
- **Protects from allergy and asthma triggering contaminants**
- **Proven effective against Staph, MRSA, E. coli, Strep and many other harmful pathogens**
- **Improves productivity naturally by providing a cleaner, healthier living environment**
- **Protects heating and cooling systems from potentially damaging dust buildup**
- **Attaches directly to existing HVAC systems**
- **Made in the USA**

### 80% + Reduction in Number of Flu Related Dismissals (ActivePure Technology Installed in Indiana School Facility)

Month	Before Treatment	After Treatment
Month 1	40	
Month 3	118	
Month 5		13
Month 10		13
Month 13		8


Number of Dismissals

### 80% + Reduction in Preschool Absenteeism (ActivePure Technology Installed in Pennsylvania Preschool Facilities)

Year	Before Treatment	After Treatment
Year One	30	
Year Two		5

Number of Absences

*Our mission is to provide a total solution for indoor environmental issues, and as part of a corporate family with more than 90 years of experienced engineering, we aim to develop, test, and perfect the products we design to promote healthier indoor environments.*



**The Certified Space Technology logo is licensed to us by The Space Foundation for use on products containing our proprietary ActivePure Technology. The Space Foundation recognizes products whose origins come directly from technology or resources derived from the space program.**




Figure 3: Diagram showing the ActivePure Cell, UV light, and airflow within a duct, illustrating the purification process and typical installation.

### 3.3 Benefits of ActivePure Technology

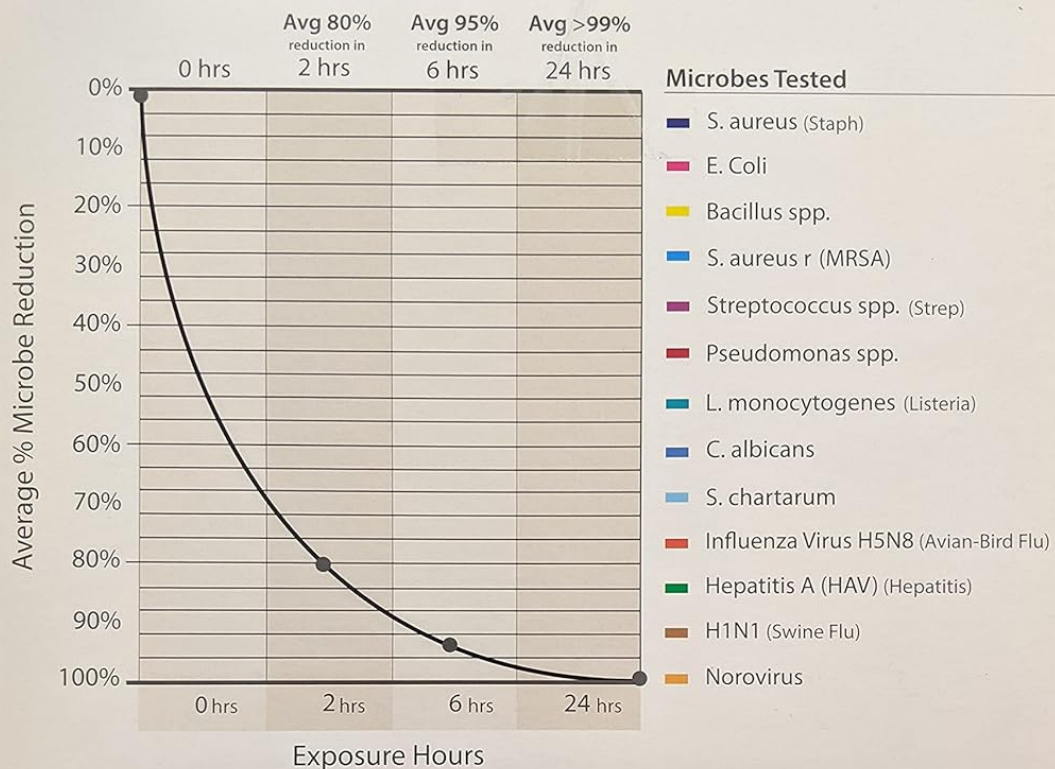
ActivePure Technology is proven to reduce various contaminants and improve indoor air quality. Benefits include:

- Removes or destroys up to 99% of surface and airborne contaminants.
- Creates cleaner, safer living environments.
- Purifies air, removes VOCs, and significantly reduces odors.
- Protects against allergy and asthma triggering contaminants.
- Proven effective against Staph, MRSA, E. coli, Strep, and other harmful pathogens.
- Improves productivity by providing a cleaner, healthier living environment.
- Protects heating and cooling systems from potentially damaging dust buildup.

## ACTIVEPURE TESTED & PROVEN TO REDUCE CONTAMINANTS

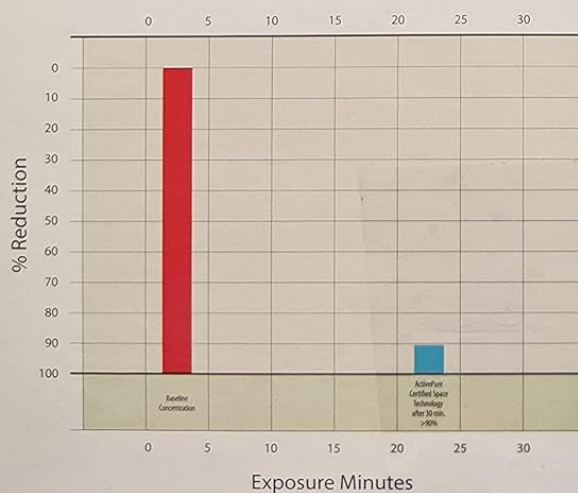
### Reduction of Surface Contaminants

ActivePure® (RCI) Technology 24 hour testings conducted by Kansas State University



### Reduction of Airborne Contaminants

ActivePure Technology testing conducted by University of Cincinnati



**Effects of ActivePure® (RCI) Technology on reducing airborne pathogens in a 30 minute testing period conducted by the University of Cincinnati.**

\*Scientific testing by Kansas State University has demonstrated the use of ActivePure Technology to substantially reduce microbial populations on surfaces – including Escherichia coli, Listeria monocytogenes, Streptococcus spp., Pseudomonas aeruginosa, Bacillus spp., Staphylococcus aureus, Candida albicans, S. chartarum, and H1N1. Testing as to the reduction of Norovirus was conducted by an independent lab. Scientific testing by University of Cincinnati has demonstrated the use of ActivePure Technology as to airborne contaminants. Field results may vary based on environmental conditions. These results have not been evaluated by the FDA. This product is not a medical device intended to diagnose, treat, cure, or prevent any disease.

Figure 4: Visual representation of ActivePure Technology's effectiveness in reducing influenza virus (H5N8) and flu-related absenteeism, as well as a list of customer benefits.



Figure 5: Scientific data illustrating the average microbe reduction on surfaces over 24 hours and the reduction of airborne pathogens in a 30-minute testing period.

## 4. SETUP AND INSTALLATION

The Aerus Air Scrubber is designed for straightforward installation into your HVAC ductwork. The process typically takes 30-45 minutes for a qualified technician or experienced individual.

### 4.1 Installation Steps

1. **Select Location:** Choose a suitable location in your furnace ductwork, ideally above the furnace and any A/C coils, where the air flows towards the house ductwork.
2. **Cut Opening:** Carefully cut an appropriate-sized hole (approximately 4 inches) in the selected ductwork.
3. **Mount Unit:** Position the Air Scrubber unit so the ActivePure Cell (bulb) extends into the duct. Secure the unit to the ductwork using the provided mounting plate and screws.
4. **Electrical Connection:** The unit operates on low voltage. It comes with a 110V transformer. Mount this transformer inside the furnace in a suitable location where 110V power can be safely tapped. Connect the low-voltage wiring from the Air Scrubber to the transformer.
5. **Seal Gaps:** Ensure all gaps around the mounted unit are properly sealed to prevent air leakage.

It is crucial to ensure proper electrical connections and secure mounting for optimal performance and safety. If you are unsure about any step, consult a professional HVAC technician.

## 5. OPERATING INSTRUCTIONS

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Once installed and powered, the Aerus Air Scrubber operates continuously to purify your indoor air.

- **Continuous Operation:** For maximum effectiveness, it is recommended to allow your HVAC system's fan to run continuously. This ensures that air is constantly circulating through the Air Scrubber, providing ongoing purification throughout your home.
- **Control Method:** The unit features a touch control method for basic operation, typically an on/off function or status indicator. Refer to the specific model's interface for detailed control options.

## 6. MAINTENANCE

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Regular maintenance is essential to ensure the continued effectiveness and longevity of your Aerus Air Scrubber.

- **ActivePure Cell/Bulb Replacement:** The ActivePure Cell (which includes the UV bulb and catalyst) should be replaced approximately every two years. The effectiveness of the purification technology diminishes significantly after this period. Always disconnect power before replacing the cell.
- **Dedicated Transformer:** Ensure that a dedicated 40 VA transformer is used for the Air Scrubber. Using the system's existing transformer (unless specifically designed for additional load, such as certain Trane models) can shorten the life of the ActivePure Cell and potentially cause electrical damage to the HVAC system's controls.
- **Air Filtration:** Complement the Air Scrubber with a high-quality media filter (e.g., AprilAire, Honeywell, Trion AirBear) or an electronic air filter (e.g., AprilAire 5000). This helps remove a large amount of particulate matter and biological contaminants before the air reaches the Air Scrubber, optimizing its performance.
- **Humidification:** In environments with low relative humidity, consider installing a whole-home humidifier (e.g., AprilAire 400, 600, 700, or 800) to maintain optimal indoor air quality.

## 7. TROUBLESHOOTING

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If you experience issues with your Aerus Air Scrubber, consider the following:

- **No Indicator Light:** Check the power connection to the unit and the transformer. Ensure the HVAC system is powered on.
- **Reduced Effectiveness:** If you notice a decrease in air quality, it may be time to replace the ActivePure Cell/bulb. Refer to the maintenance section for replacement intervals.
- **Unusual Odors:** While the unit is ozone-free, any persistent unusual odors should be investigated. Ensure proper ventilation and check for other sources of odors in your HVAC system or home.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified HVAC technician or Aerus customer support.

## 8. SPECIFICATIONS

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<b>Brand</b>	Aerus
<b>Model Numbers</b>	A1013P, X147888M, 9960052, X167109N
<b>Product Dimensions</b>	11 x 6.5 x 6.5 inches
<b>Item Weight</b>	1.44 Kilograms (3.17 Pounds)
<b>Power Source</b>	Electric (24Vac ~ 50/60Hz 1.0A 17W)
<b>Control Method</b>	Touch
<b>Color</b>	Black
<b>Date First Available</b>	August 19, 2021

## 9. WARRANTY AND SUPPORT

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For warranty information, claims, or technical support, please refer to the documentation provided at the time of purchase or contact your authorized Aerus dealer or HVAC technician. It is recommended to keep your purchase records for warranty purposes.