



ECOBUS

Mountable Air Purification



Owner's Manual

About ECOBUS

This unit is designed to be permanently mounted to a wall surface in several different applications. Since ECOBUS is powered by 24VDC it is a perfect product to be used in motor coaches or any other vehicle that uses 24VDC. However, ECOBUS can be outfitted with a mounting bracket and 120-240VAC power adapter and used as a wall mounted air purifier in a large room, small office, or similar space. ECOBUS effectively renders bacteria, viruses, mold, mildew and other contaminants in the air, and on surfaces, harmless on a continuous basis. Treatment from ECOBUS also eliminates odors to create a cleaner, safer environment.

ECOBUS utilizes Active Radiant Catalysis (**ARC™**) technology that generates advanced oxidation products (AOP's), primarily consisting of hydro-peroxides, or vaporized hydrogen peroxide. Active Radiant Catalysis technology replicates nature's purifying process through the use of ultraviolet energy to activate a multi-metal catalyst, converting water vapor into oxidizers including peroxide and hydroxyls. These oxidants will either inactivate the microbe by the process of cell lysing which compromises the cellular integrity by oxidation penetrating the cell wall, or by changing the molecular structure rendering the contaminant harmless. In addition, the Stationary Model includes Bi-Polar Ionization to assist in neutralizing pollutants and odors.

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Specifications

Mobile Model

Dimensions	10.25" H (260mm) x 8.00" W (203mm) x 3.25" D (83mm)
Weight	2.3 lb (1kg)
Electrical Input	24VDC
Warranty	2 Years

Stationary Model

Dimensions	10.25" H (260mm) x 9.75" W (248mm) x 3.75" D (95mm)
Weight	2.7 lb (1.2kg)
Electrical Input	120/240VAC to 24VDC Power Adapter
Effective Area	Up to 1,200ft ²
Warranty	2 Years

*Depending on variables such as the severity and frequency of pollution, flow of air in the environment, humidity, and temperature.

Record the name and phone number of your Distributor as well as unit serial number.

Name _____

Phone #: _____

Serial #: _____

Warnings



WARNING: Electrical shock may occur. Hard-wired Installations should be handled by a licensed professional.



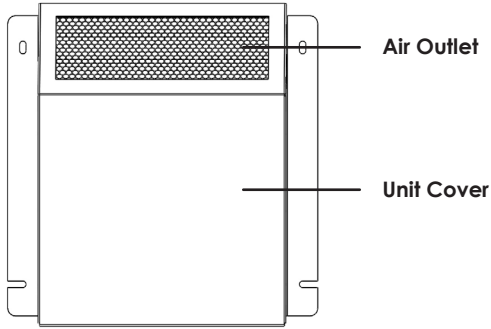
WARNING: Never service the unit while it is connected to a power source. Electrical shock or injury may occur.



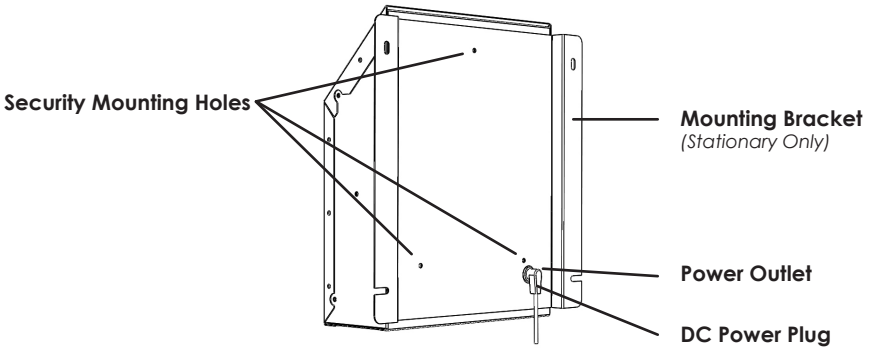
NOTE: A slight odor may be noticeable when the unit is first installed and operated. This is due to the newness of the UV bulb being used and the initial cleaning of the contaminated space. The odor is completely harmless.

Unit Diagrams

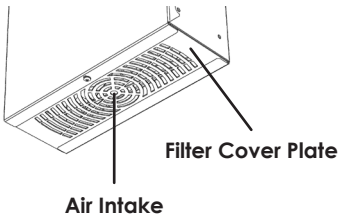
Unit Front



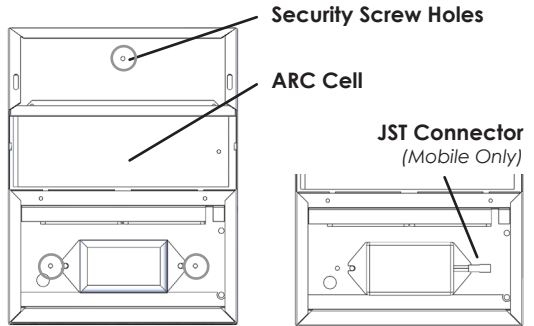
Unit Rear



Unit Bottom



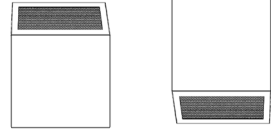
Unit Internals



Installation (Mobile - Buses, Service Vehicles)

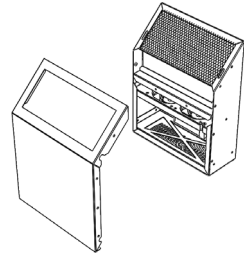
1. Determine location for desired placement of unit. Typically, the angled grill should be pointed upward and mounted as high on the wall as practical.

STEP 1



2. Make access available for 24VDC connection (ignition lead if unit is only to be on when vehicle's engine is running). If not, a switch (not included) will be necessary between the electrical lead from vehicle and power lead of ECOBUS.

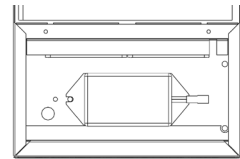
STEP 3 & 8



3. Remove cover from unit (requires a security TORX bit {T10} – not included).

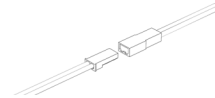
4. Option – If utilizing the LED operation indicator light, determine where the light should be located and how to run the line from the unit to that location. Connect the LED Leads JST Connector to the JST Connector from ECOBUS.

STEP 4



5. Make proper electrical connection. Run LED line to its determined position if using.

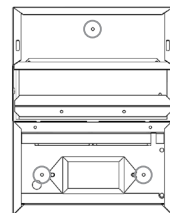
STEP 5



6. Remove protective film from sponge adhesive back material and carefully align and stick unit in place.

STEP 7

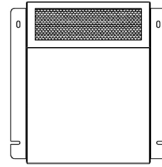
7. Securely mount ECOBUS using the three screw openings in back of the unit.



8. Replace the unit cover.

Installation (Stationary - Surface Mount in Buildings)

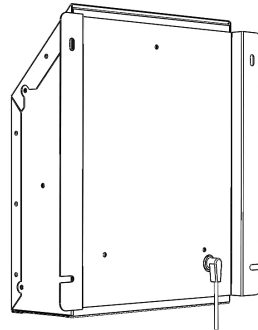
1. Determine location for desired placement of unit close enough to a power outlet to allow the included 120/240 VAC to 24 VDC power adapter to be plugged in. Typically, the angled grill should be pointed upward and mounted as high on the wall as practical, within 18 inches of the ceiling if possible.



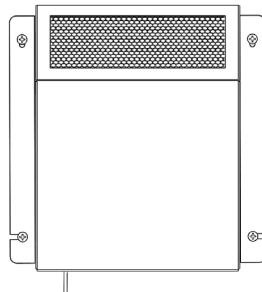
STEP 1



2. Plug the power adapter's elbow style DC connector to back of ECOBUS unit.
3. Attach the ECOBUS unit to the wall location with included screws utilizing the mounting bracket flanges.
4. Make proper electrical connection of 24VDC power adapter to outlet.



STEP 2



STEP 3

Cleaning the Unit

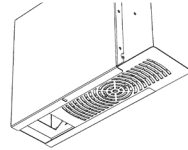
The unit will need to be cleaned inside from time to time as well. Be sure to use extreme caution when doing this in order to avoid any damage to the unit or harm to yourself.



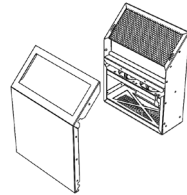
WARNING: Make sure to disconnect the unit from its power source before any maintenance or cleaning is done.

1. Disconnect unit from power source.
2. Remove the Filter Cover Plate from the unit.
3. Remove the Cover from the unit.
4. Wipe everything down with a damp cloth.
5. Replace the Cover of the unit.
6. Replace the Filter Cover Plate of the unit.
7. Reconnect unit to power source.

STEP 2 & 6



STEP 3 & 5



Filter Replacement

See Page 9 for Replacement Part Numbers.



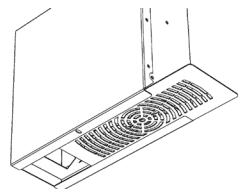
WARNING: Make sure to disconnect the unit from its power source before any maintenance or cleaning is done.

Filter

We recommend replacing the Filter after 90 days or when noticeably contaminated.

1. Disconnect unit from power source
2. Remove the Filter Cover Plate from the unit.
3. Remove the used Filter.
4. Replace with the new Filter (Red side facing out).
5. Replace the Filter Cover Plate.
6. Reconnect unit to power source

STEP 2 & 6



ARC™ Cell Replacement

See Page 9 for Replacement Part Numbers.



WARNING: Make sure to disconnect the unit from its power source before any maintenance or cleaning is done.

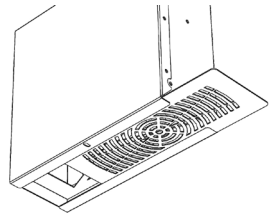


WARNING: Please do not throw a used ARC™ Cell in the garbage. See CELL DISPOSAL (PG. 9) for disposal instructions

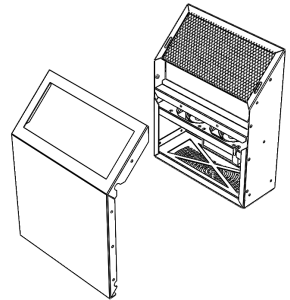
Your ARC Cell should be replaced every 2 years.

1. Disconnect unit from power source.
2. Remove the Filter Cover Plate from the unit.
3. Remove the Cover from the unit.
4. Locate the ARC Cell and gently lift it up out of the case.
5. Disconnect the power to your old ARC Cell and replace it with your new ARC Cell. Ensure plug is fully seated in the connection and the wire is fully seated into the grommet/bulkhead.
6. Place the ARC Cell in place in the unit.
7. Replace the Cover.
8. Replace the Filter Plate Cover.
9. Reconnect unit to power source.

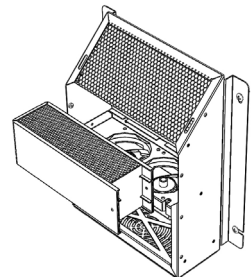
STEP 2 & 8



STEP 3 & 7



STEP 4-6



Replacements Part Numbers

Please reference these part name and numbers when contacting your dealer or GreenTech Environmental for replacement parts.

ECOBUS Replacement ARC Cell	1X3200
ECOBUS Replacement Filter	1X5098

Cell Disposal (Hg - LAMP CONTAINS MERCURY)

Please do not throw a used ARC™ Cell in the garbage. The special germicidal UVC bulb used in the unit contains a very small amount of mercury. Manage in accordance with disposal laws.

(Visit www.lamprecycle.org for proper instructions.)

Dispose of the spent ARC Cell and UV Lamp at your local recycling center or by local regulations. You may also send your spent ARC Cell and UV Lamp, in the same container you received your replacement, to:

GreenTech Environmental Reclamation
6118 Kingsport Hwy 36
Johnson City, TN 37615

Troubleshooting

ARC™ Cell Doesn't Turn On

- Check for secure connection
- Try another ARC™ Cell
- Ballast needs replaced (Visit www.greentechenv.com for contact information)

Fan Doesn't Turn On

- Check for secure connection
- Fan needs replaced (Visit www.greentechenv.com for contact information)

Warranty Information

Your ECOBUS (Product) and ARC™ Cell are warranted to be free from all defects in material and workmanship in normal use for a period of **two (2) years** from date of purchase.

The warranty is granted only to the original purchaser. The warranty is subject to the following provisions:

Any damages or malfunctions caused by negligence, abuse, or use not in accordance with the Product Owner's Manual are not covered by this warranty. Likewise, any defects or damages caused by unauthorized service or the use of other than Genuine GreenTech Environmental Parts are not covered.

GreenTech Environmental will, at its option, repair or replace a defective Product or part(s) for the Product that is/are covered by this warranty. As a matter of warranty policy, GreenTech Environmental will not refund the customer's purchase price.

OBTAINING WARRANTY SERVICE

To obtain warranty service you must return the defective product along with proof of purchase to the GreenTech Environmental Authorized Service Center. All shipping costs submitted under this Warranty shall be borne by purchaser. Unless this Warranty is expressly renewed or extended by GreenTech Environmental, any repaired or replaced part of unit shall be warranted to the original purchaser only for the length of the unexpired portion of the original warranty. For the location of the nearest GreenTech Environmental Authorized Service Center or for other service information, please visit us online at:

www.GreenTechEnv.com/Support

Before any product is sent for service, the customer should contact the GreenTech Environmental Service Center to obtain a Return Merchandise Authorization (RMA) Number. This RMA Number should be clearly written on the box before shipping. All components/parts including the remote (if applicable), manuals, and original packaging should be included in the return if available.

FURTHER LIMITATIONS AND EXCLUSIONS ARE AS FOLLOWS

Any warranty that may be implied in connection with your purchase or use of the Product, including any warranty of merchantability or any warranty for Fitness For A Particular Purpose is limited to the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Your relief for the breach of this warranty is limited to the relief expressly provided above. In no event shall GreenTech Environmental be liable for any consequential or incidental damages loss of profit, or medical expenses caused by any misuse, abuse, accident, negligence, or failure to follow instructions. The company will not be responsible for any written or oral statements made that are inconsistent with this written warranty, or which are misleading or inconsistent with the facts as published by the company in the literature or specifications. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

REGISTRATION

Please register your Product within 10 days of purchase by contacting GreenTech Environmental at:

www.GreenTechEnv.com/Warranty

Registering your new GreenTech product entitles you to the most up-to-date GreenTech Environmental warranty and promotion information.

