



Air/Surface Sanitiser

User Manual



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PRODUCT INTRODUCTION

BENEFITS

THE AIR PURIFIER SYSTEM BRINGS THE MOST ADVANCED AIR PURIFICATION TECHNOLOGY INTO THE COMFORT OF YOUR SPACE

Unlike other air purifiers, **Viro Tech Mini** does more than simply filter the air in your space. Incorporating technology like photo catalytic oxidation, high level negative ionization, scalable purification and electrostatic filtration allows the air purification system to provide tangible benefits to your home or workspace by:

- Destroying pollution from the air, embedded in walls, ceilings, floors, carpets, furniture, etc.
- Reducing or eliminating odours such as cigarette smoke, mildew, food, etc.
- Contributing to the sanitization of all surfaces.

The whisper quiet five-speed fan disguises the power encapsulated in the advanced air purification system. Having the air purifier in your space will not only improve the quality of air but most importantly it will improve the quality of life.

EASE OF USE

THE AIR PURIFIER IS YOUR HASSLE-FREE PROVIDER FOR CLEAN AIR AND HEALTHY LIVING

With proper care and maintenance (see "CLEANING" page 10), the air purifier will operate with the same robust power and efficiency for several years beyond the date of purchase. With the push of a button the unit starts working to eliminate the biological contaminants and dangerous pathogens in your home or office. Enhancing your overall quality of life has never been this easy.

FOUR TECHNOLOGIES



ELECTROSTATIC FILTRATION

An advanced electrostatic filter is included with air purifier to help keep the purifier clean while at the same time filtering out particles. Unlike expensive HEPA filters, the electrostatic filter is washable and can be used over and over again.



NEEDLEPOINT IONIZATION

The air purifier generates a continuous stream of millions of negative ions that circulate throughout the home. These ions charge particles (such as dust, dander or bacteria) causing them to attract other particles and clump together. As more and more particles come together, they become heavier, making them easier to pull into the home's HVAC air filter or just fall to the floor to be vacuumed up. Unlike HEPA filters that can only filter out particles of .5 microns or larger, the ionizer in the air purifier can reduce ultra-fine, even nano particles, that are much more dangerous than the larger particles you can actually see.



SCALABLE PURIFICATION

The unit can be easily adjusted to the preferred purification setting for your living area Using these settings provides optimum performance and comfort. In High Mode, the purification plate generates activated oxygen to assist in breaking down pollutants which cause odours. For faster sanitization, the unit can be set to Away Mode which is equipped with an auto shut-off timer and can be used for maximum output when the room or home is unoccupied.



ADVANCED PHOTO CATALYTIC

Both the Advanced Photo Catalytic Oxidation (PCO) and Scalable Oxidation work to destroy biological contaminants as well as odours, mold, bacteria and viruses. PCO Cells have been proven to reduce dangerous pathogens by more than 99% in less than 24 hours through a process called molecular disassociation which actually breaks down the molecules instead of simply



covering up the source. Scalable Oxidation ensures your air purifier will perform at the maximum efficiency specific to its environment at the time of use. In High Mode, the purification plate generates activated oxygen to assist in breaking down contaminants which cause odours. For faster cleanup, the unit can be set to Away Mode which has a programmable auto-shutoff timer feature. This allows the machine to generate maximum output when the room or home is unoccupied.

SPECIFICATIONS/WARNINGS

SPECIFICATIONS

UNIT

Size: H 305 mm x W 228 mm x D 273 mm

Weight: 4.7 kg

Coverage: from 23 m² to 279 m² (depending on variables such as the severity and frequency of pollution, flow of air in the environment, humidity and temperature)

Input: 100-240 Vac - 50/60 Hz - 2.5 A

PCO CELL

"NORMAL" Mode Output: < 0.02 ppm ozone (ambient room concentration)

PURIFICATION PLATE

"HIGH" Mode Output: 25-360 mg ozone per hour

IONIZATION

6 KV DC Needle Ion generator

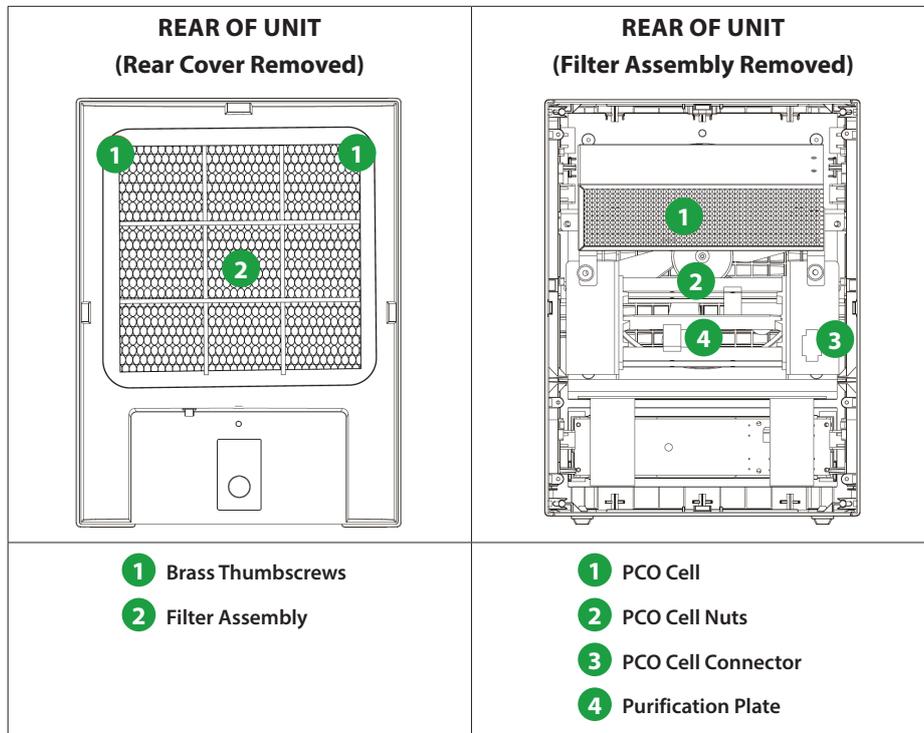
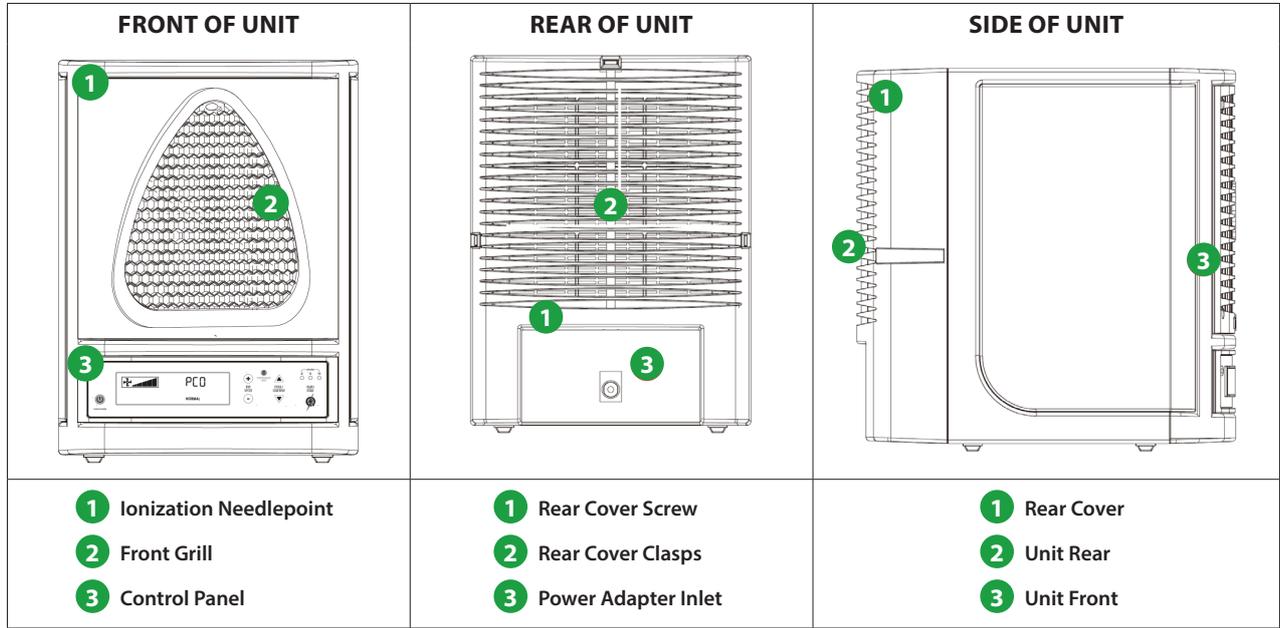
24 - 30 KV, 20 - 30 KH³ Ion generator pulsator

WARNINGS

Review this list before use and performing any maintenance or cleaning of your unit.

| | |
|--|--|
|  WARNING | WARNING: Never operate unit near heat source, open flame or flammable/combustible fluids. |
|  WARNING | WARNING: Do not operate unit unless all parts (including PCO Cell, Purification Plate, Rear Filter Assembly and Rear Cover) are properly installed. |
|  CAUTION | CAUTION: Directly viewing the lamp inside unit for an extended period (longer than 20 min.) may result in eye damage. |
|  CAUTION | CAUTION: Never adjust setting to exceed square metres of ventilated space being treated. |
|  CAUTION | CAUTION: Do not use "AWAY" Mode in occupied spaces. Short term exposure to ozone levels exceeding 0.5 ppm can cause temporary adverse reactions. |
|  CAUTION | CAUTION: Unit should be powered OFF and Power Cord should be disconnected when Cleaning/Disassembling/Reassembling/Serviceing. |

DIAGRAMS





SETUP

IDEAL PLACEMENT

There are several important factors to consider when selecting a location for your air purifier:

- Make sure the location you choose is as far away from the HVAC air return duct as possible. This will ensure that the purification produced by the air purifier is optimally circulated.
- Place the unit on top of something tall such as a bookcase, a shelf or a mounting bracket, leaving only 30 to 60 cm between the unit and the ceiling. Point the unit towards the centre of the room.
- To ensure the unit works properly, there should be as much space as possible in front of your air purifier so that it can efficiently process the air in the area.
- Never place an operating unit on the floor.
- Nearest the source of the worst pollution.

INITIAL SETTING

Before using the unit you will need to find the area (or square metres) of the environment. To do this accurately, take into account all connected rooms with open doorways (the purification does not flow readily through closed doors).

The Air purifier can purify up to 279 m² of space.

For example: Suppose you have a 232 m² house. The living room is attached to the kitchen, three bedrooms, the den and a laundry room. The kitchen and three bedrooms' doors remain open the majority of the time but the laundry room and den usually remain closed off from the rest of the house. Together, the laundry room and den have a combined area of 46 m². The area of the environment you would want to set your air purifier and purify would be 186 m².

Once you have determined an ideal location for your unit and calculated the area of the environment:

1. Connect the Power Cord into the unit.
2. Insert the Power Plug into the wall outlet.
3. Turn the unit on and set it to "NORMAL" mode (see "OPERATIONS": page 7).
4. Leave the unit on "NORMAL" mode for at least 24 hours to begin with.
5. After 9 hours, set the unit to "HIGH" mode and set the square metres to 24 m².
6. Gradually increase the square metres setting every 24 hours until you reach the accurate square metres of your area which you calculated in the initial steps).

NOTE

Using the purifier at a setting less than the m² of the area being treated is acceptable and may be desirable in an environment relatively free of pollutants.

Register your product for 12 month warranty at:
<https://f-tech-warranty.com>

CONTROLS

CONTROL PANEL

REMOTE CONTROL PANEL

| | |
|---|--|
| <ul style="list-style-type: none"> 1 Power Control 2 LCD Screen 3 Fan Speed Setting 4 Maintenance Reset | <ul style="list-style-type: none"> 5 Mode/ Coverage Setting 6 "AWAY" Mode - Not for use in occupied room 7 "AWAY" Mode Timer Indicator - Not for use in occupied room |
|---|--|

| CONTROL PANEL SCREEN | | |
|----------------------|---|--|
| 1 | | Fan Speed Indicator |
| 2 | PCO NORMAL | Photocatalytic-Oxidation Mode Indicator |
| 3 | 3000 FT ² HIGH | Mode/Coverage Indicator |
| 4 | ! PURIFIER SETTING MUST NOT EXCEED ● SIZE OF AREA | Mode/Coverage Warning Indicator |

| MODE SPECIFIC DISPLAY | | |
|-----------------------|-----------------------------------|---|
| 5 | 2:00 HRS AWAY | "AWAY" Mode Timer Indicator Not for use in occupied room |
| 6 | AREA MUST BE UNOCCUPIED | "AWAY" Mode Warning Indicator |
| 7 | REPLACE PLATE REPLACE PCO CELL | Replacement Notification Indicator |
| 8 | PERFORM CLEANING | Maintenance Notification Indicator |

NOTE

It is recommended to leave the room vacant for 2 hours after running the unit in away mode. This will allow time for the ozone to dissipate. It is also advisable to open windows/doors to ventilate the room.



OPERATING THE UNIT

TURNING THE UNIT ON/OFF

Press the Power Button  on the Control Panel or Remote to turn the unit on. The unit will initially be set to "NORMAL" Mode. Press the Power Button once more to turn the power off.

USING "NORMAL" MODE

Press  button until "NORMAL" is shown in the lower right of the display.

- Square metres not available in "NORMAL" mode (see "Initial Settings": page 5).
- To control the fan speed: Use  or  buttons in  menu.

USING "HIGH" MODE

Press the   button and verify that "HIGH" is shown in the lower right of the display.

- To set the square metres on the Display: Use   or  buttons (see "Initial Settings": page 6).
- To control the fan speed: Use  or  buttons.

CAUTION: Never adjust setting to exceed square metres of ventilated space being treated.

USING "AWAY" MODE

Press the  button and verify that "AWAY" is shown in the lower right of the display.

- To set the "AWAY" Mode Timer: press . Each press of the  button increases the running time of the Away Mode. Select 0:30, 1:00, or 2:00 hours.
- Press  once more to switch the unit back to "NORMAL" Mode.

LCD REMINDERS

REPLACE PLATE

When "REPLACE PLATE" appears, the Purification Plate has reached the end of its useful life and must be replaced. To order a replacement, contact your distributor. Once a replacement has been obtained, follow the instructions in "DISASSEMBLY/ASSEMBLY" (page 8) to replace your old Purification Plate with your new one.

REPLACE PCO CELL

When "Replace PCO Cell" appears, the PCO Cell has reached the end of its useful life and must be replaced.

Contact your distributor to order a replacement.

Once a replacement has been obtained, follow the instructions in "DISASSEMBLY/ASSEMBLY" (page 8) to replace your old PCO Cell with your new one.

PERFORM CLEANING

"PERFORM CLEANING" will display once the 30 day operation cycle between cleanings has passed and the unit requires a complete cleaning. Follow the instructions in "CLEANING" (page 10).

After replacing the Purification Plate or the PCO Cell, the corresponding reminders will reset themselves. After performing a cleaning of the unit you should reset the reminders by holding down the Reminder Reset button  on the Control Panel of the unit. The reminder has been reset when "PERFORM CLEANING" no longer appears.

DISASSEMBLY / ASSEMBLY

TOOLS REQUIRED: You will need a #2 Phillips screwdriver.

A countertop or flat surface is ideal for disassembling/assembling your unit. You will need 2 ft. x 3ft. of clean, accessible workspace. It is recommended to use a small bowl or cup to hold any screws so they are not lost during the disassembly / assembly process.

- 1. TURN THE UNIT OFF.**
- 2. REMOVE THE POWER CORD FROM THE WALL AND REAR OF THE UNIT.**
- 3. CLEAN EXTERIOR OF UNIT IF NECESSARY** (see "Cleaning unit - Exterior": page 10).

DISASSEMBLY

REMOVING THE REAR COVER

- Using your screw driver, remove the Rear Cover Screw from the Rear Cover (above the Power Cord Port). Place the Rear Cover Screw where you will find it easily during reassembly.
- Squeeze the tabs on both sides of the Rear Cover (where the grooves are) until they release and tilt the Rear Cover upwards until the top tab releases. Clean with compressed air or a damp cloth. Set the Rear Cover aside.
- Clean exterior of unit if necessary (see "Cleaning Unit - Exterior": page 10).

REMOVING THE FILTER ASSEMBLY

- Remove brass thumbscrews from the top corners of the Filter Assembly. Place brass thumbscrews where you will find them easily during reassembly.
- Grasp the top of the Filter Assembly and tilt away from the unit. Clean if necessary (see "Cleaning the Filter Assembly": page 10) and set the Filter Assembly aside.

REMOVING THE PURIFICATION PLATE

Grasp the Purification Plate on the ceramic and gently pull it out of the grooves on the sides. Clean (see "Cleaning the Purification Plate": page 10) and set the Purification Plate aside.

REMOVING THE PCO CELL

- Locate the PCO Cell Power Connector on the right of the rear of the unit (beside the Purification Plate slot). Squeeze the tabs on the top and bottom of the PCO Cell Power Connector and pull gently until free from the PCO Cell Power Connector Outlet.
- Remove the thumb nuts from the screw posts on the right and left below the PCO Cell. Place the thumb nuts where you will find them easily during reassembly.
- Gently slide the PCO Cell out of the unit. Clean (see "Cleaning the PCO Cell": page 10) and set the PCO Cell aside. Clean the interior of the unit (see "Cleaning the Unit - Interior": page 10).

ASSEMBLY

INSTALLING THE PCO CELL

- Position the PCO Cell inside the unit so that the two tabs are on the bottom (and interior side) of the PCO Cell. Ensure the holes in the two tabs fit over the two screw posts. Screw the thumb nuts onto the screw posts until they are snug.
- Align the PCO Cell Power Connector to the PCO Cell Power Connector Outlet and insert gently until the tabs at the top and bottom of the PCO Cell Power Connector snap into place, holding it in the PCO Cell Power Connector Outlet.



INSTALLING THE PURIFICATION PLATE

Holding the Purification Plate by the ceramic, slowly insert it into the Purification Plate Slot, ensuring that the Purification Plate is sliding into the grooves on either side.

NOTE: About halfway in, the Purification Plate Connectors are parted. Continue sliding the Purification Plate into the Purification Plate Slot until there is approximately one inch of the Purification Plate remaining outside of the Purification Plate Slot and significant resistance is met. Be careful not to force the Purification Plate further into the Purification Plate Slot as this could seriously damage your unit.

INSTALLING THE FILTER ASSEMBLY

1. Hold the Filter Assembly with the larger flat side facing the interior of the unit. A sticker reading, "Caution: Reinstall Filter After Cleaning," is located on the opposite side of the Filter Assembly. This sticker should be visible when you install the Filter Assembly.

2. Insert the bottom of the Filter Assembly into the tabs on the rear of the unit and then seat the Filter Assembly on the rear of the unit.

CAUTION: If the user fails to insert the Filter Assembly into the tabs appropriately, disassembling the unit in the future could be extremely difficult.

3. Screw the two brass thumbscrews into their holes at the top corners of the Filter Assembly.

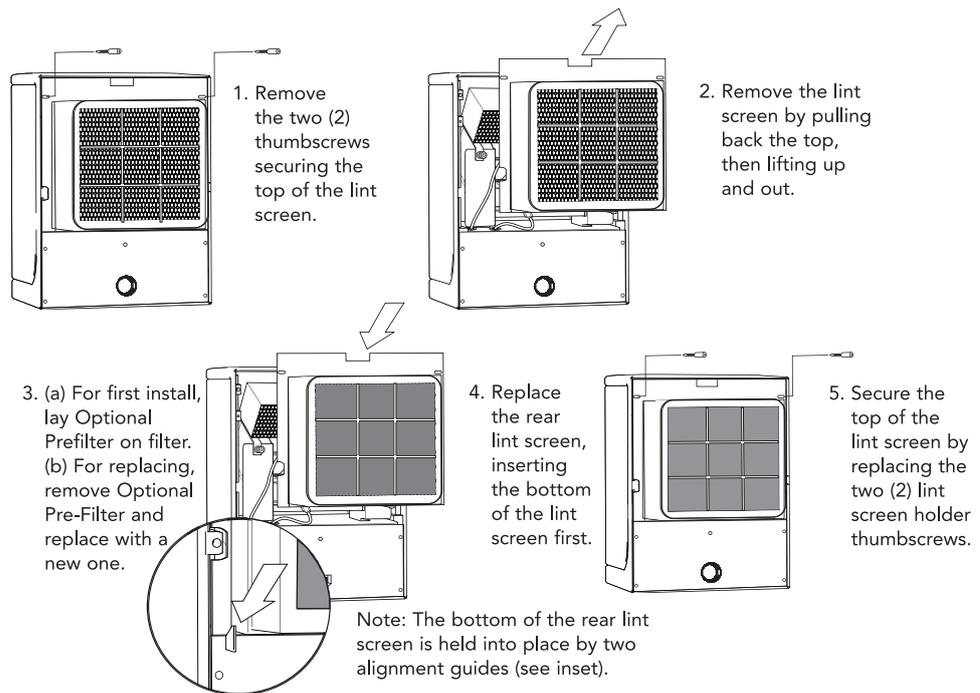
INSTALLING THE REAR COVER

1. Place the tab at the top of the Rear Cover into the hole at the top of the Filter Assembly then lay the Rear Cover flat against the rear of the unit until the tabs on the sides of the Rear Cover click into place on the unit.

2. Carefully insert the Rear Cover screw into its hole on the Rear Cover (above the Power Cord Port) and tighten.

OPTIONAL PRE-FILTER

To Remove:
Rear Back Panel follow steps 1 - 3,
Prefilter follow steps 4 - 5



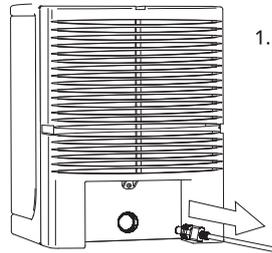
REMOVING THE REAR LINT SCREEN

To Remove:

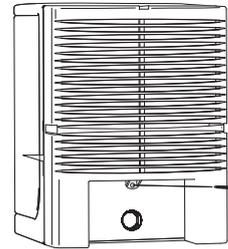
Rear Lint Screen
follow steps 1 - 5

Purifier Plate
follow steps 1 - 6

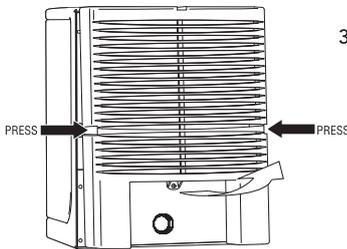
ActivePure (RCI) cell
follow steps 1 - 10



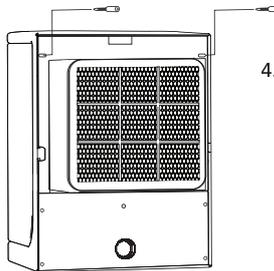
1. Unplug unit.



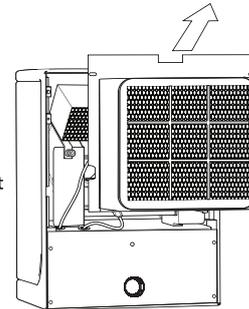
2. Remove the back cover screw.



3. Remove back cover. Press the sides to unlatch, then tilt the bottom out to remove.

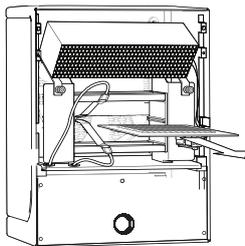


4. Remove two thumbscrews securing the top of the lint screen.



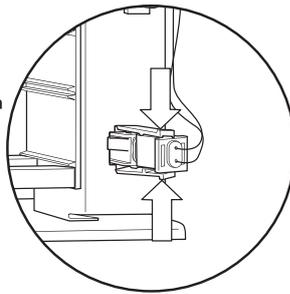
5. Remove the lint screen by pulling back the top, then lifting up and out.

REMOVING THE PURIFIER PLATE & ACTIVEPURE (RCI) CELL

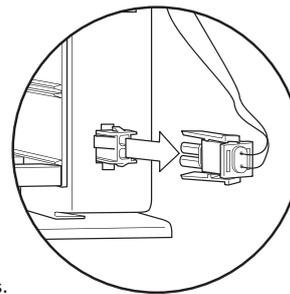


6. To remove the purification plate, grasp edge of plate in the center and gently pull out.

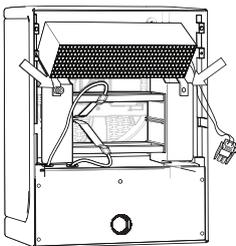
NOTE: If the plate is difficult to remove, gently press down on the lower metal contact tab.



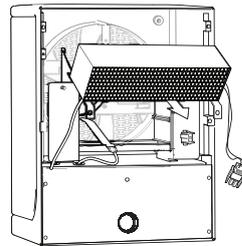
7. Unlock the ActivePure (RCI) cell connector by pressing on the connector's locking tabs.



8. Pull the connector straight out to unplug.



9. Remove two (2) thumbscrews.



10. Slide the ActivePure (RCI) cell down and out of unit.

WARNING: Do not operate without the rear lint screen and back cover properly installed.



INSTALLING THE PURIFIER PLATE & ACTIVEPURE (RCI) CELL

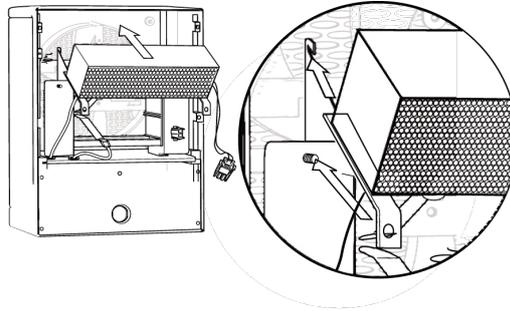
To Install:

Rear Lint Screen follow steps 5 - 9

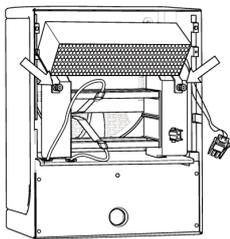
Purifier Plate follow steps 4 - 9

ActivePure (RCI) cell follow steps 1 - 9

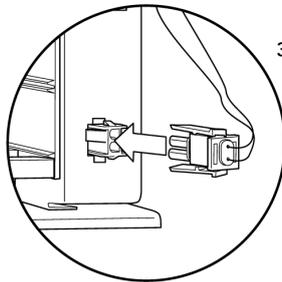
When installing the purification plate, be sure the metal tabs are making contact with the screen on each side of the plate.



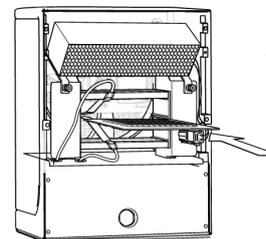
1. Slide the ActivePure (RCI) cell up and into the unit. Be sure the back lip of the ActivePure (RCI) cell engages the two slotted protrusions at the rear of the plate cage, and that the angle brackets and studs are correctly aligned.



2. Replace the two (2) thumbscrews and tighten.

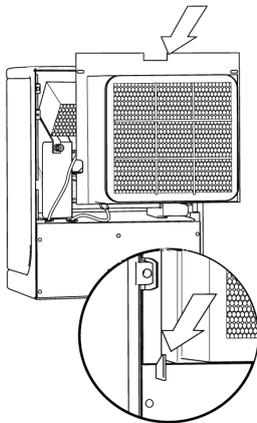


3. Insert the ActivePure (RCI) cell connector into the plug on the plate cage. Press the connector firmly until the two tabs lock into place.



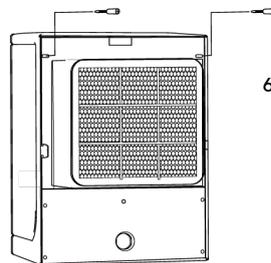
4. Gently insert the purifier plate between the guides (inside the cage) until it stops.

INSTALLING THE REAR LINT SCREEN

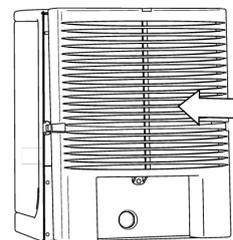


5. Replace the rear lint screen, inserting the bottom of the lint screen first.

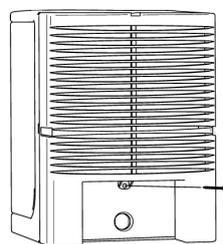
Note: The bottom of the rear lint screen is held into place by two alignment guides (see inset).



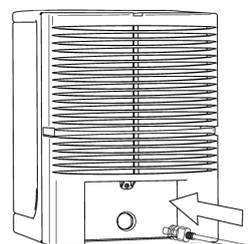
6. Secure the top of the lint screen by replacing the two (2) lint screen holder thumbscrews.



7. Replace the back cover by snapping into place



8. Replace the back cover screw.



9. Reinstall the power cord.

WARNING: Do not operate without the rear lint screen and back cover properly installed.

INSTALLING THE POWER CORD

1. Insert the Power Adapter Plug into the rear of the unit.
2. Ensure the Power Cord is properly connected to the Power Adapter.
3. Insert the Power Plug into a wall outlet.

TURNING THE UNIT ON

Press the Power Button . Ensure that the unit's settings are adjusted to suit the environment (see "OPERATING THE UNIT": page 7).

CLEANING THE UNIT

Your unit should be cleaned monthly to be kept running at peak performance, but depending upon the pollution or odour levels present during initial setup, it is advisable to clean the unit more frequently (weekly or bi-weekly) until the environment has been treated.

CLEANING THE UNIT (EXTERIOR)

Wipe down the exterior with a damp cloth or use compressed air or a vacuum cleaner to remove dust. Use an alcohol-based cleaning product to clean the surfaces of your unit.

CLEANING THE FILTER ASSEMBLY

You may use clean water or compressed air to clean your Filter Assembly once it has been disassembled (see "Removing the Filter Assembly": page 8).

CLEANING THE IONIZATION NEEDLE

Use compressed air to blow off any dust that may accumulate near the ionization needle.

CLEANING THE PCO CELL

Using a compressed air or a vacuum cleaner, blow and/ or vacuum the dust out of the PCO Cell. Do not use any liquid to clean the PCO Cell.

CLEANING THE PURIFICATION PLATE

Using a 50/50 mix of warm water and clear ammonia (100% white vinegar can be used in place of water and ammonia), soak the Purification Plate for 8-10 hours but do not exceed 12 hours. Using a soft-bristle brush, scrub the wire mesh to remove debris lodged inside the mesh. Rinse thoroughly. Allow the purification plate to dry completely before reinstalling. After reinstalling, use a soft cloth and rubbing alcohol to clean the contacts on the interior of the unit that touch the Purification Plate.

CLEANING THE UNIT (INTERIOR)

Using a damp cloth, a clear alcohol-based cleaner, compressed air or a vacuum cleaner, carefully clean the walls and components inside of the unit only after completing the disassembly procedures.



TROUBLESHOOTING

THE UNIT FAILS TO TURN ON

1. Verify that the Power Plug is plugged into an operational wall outlet.
2. Ensure that the Power Adapter Plug is fully seated in the receptacle on the back of the unit.
3. Verify the Power Button has been activated on the Control Panel.
4. If the Power Button on the Control Panel fails, use the Power Button on the Remote Control.

THE UNIT IS OPERATING IN "HIGH" MODE OR "AWAY" MODE, BUT NO NOTICEABLE PURIFICATION IS BEING PRODUCED

1. Ensure that the Purification Plate is clean (see "Cleaning Purification Plate": page 10).
2. The Purification Plate may not be working because it needs to be replaced. Try installing a new Purification Plate.
3. Check the electrical contact arms which touch the plate to ensure that they are making proper contact with the metal weave on the Purification Plate.
4. Ensure the electrical contact arms which touch the plate are clean. Clean them with a soft cloth and rubbing alcohol.
5. Turn the lights off in the room and look through the Front Grille at the Purification Plate. If it is operating properly, it will produce a dim purple glow.

THE PURIFICATION PLATE GENERATES AN ELECTRICAL ARC, AN ARCING NOISE OR A BURNING ODOUR

This means the Purification Plate is damaged and must be replaced. The unit may or may not display the "REPLACE PLATE" LCD reminder. To order a replacement, contact your distributor.

THE PCO CELL IS NOT LIGHTING UP

1. Ensure the PCO Cell Power Connector is properly seated in the PCO Cell Power Connector Outlet (see "DISASSEMBLY/ASSEMBLY": pages 8-9).
2. If the PCO still fails to operate, it needs to be replaced. Contact your distributor.

THE IONIZATION NEEDLE CREATES AN ELECTRICAL ARC

The Ionization Needle needs to be cleaned (see "Cleaning Ionization Needle": page 10). Be sure to complete all of the cleaning procedures (see "CLEANING": page 10) every 30 days of operation.

THE FAN DOES NOT OPERATE PROPERLY

Try adjusting the fan speed using the Control Panel or Remote Control.

THE UNIT MAKES A RATTLING NOISE WHEN TAKEN OUT OF PACKAGING

Remove the back panel of the unit (see "DISASSEMBLY/ASSEMBLY": pages 8-9). Check to ensure the two brass Thumb Screws holding the Filter Assembly are in their proper place. If they are properly installed, remove the Thumb Screws and Filter Assembly (see "DISASSEMBLY/ASSEMBLY": pages 8-9) and check the PCO Cell to ensure the two brass Thumb Screws securing the PCO Cell are installed properly.



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