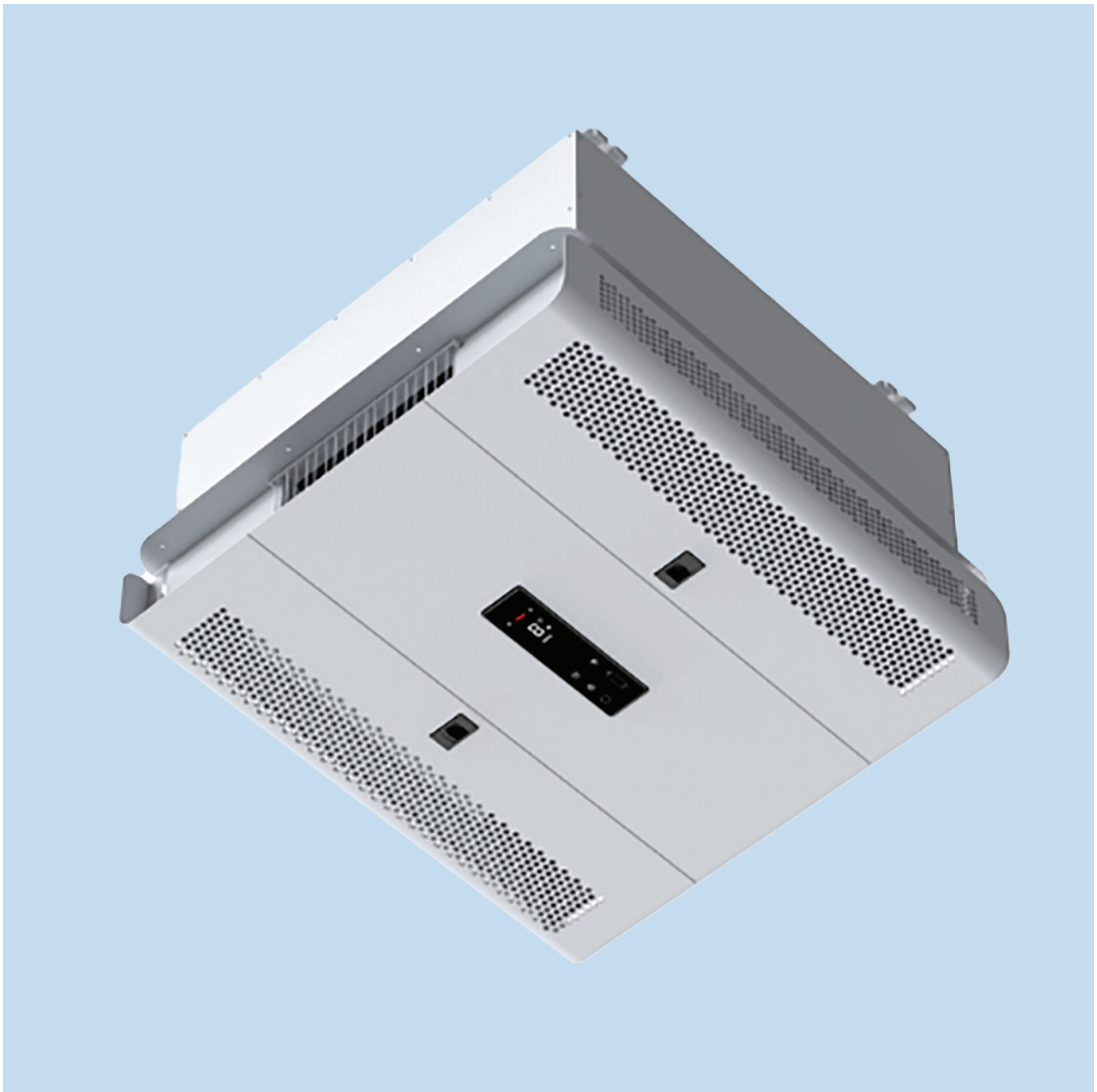


## INSTALLATION, OPERATION & MAINTENANCE MANUAL

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# AEIRO PURE C150



Read this Installation, Operation & Maintenance manual thoroughly before operation and retain for future reference.

# AEIRO PURE C150

## TABLE OF CONTENTS

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## DISCLAIMER

A printed copy of all the electronic materials is included in the unit packaging.

The ceiling installation of the unit should be performed by a qualified professional.

Read the label on the unit, operation and installation manuals before use and make sure you follow all the precautions outlined in the manual.

The manufacturer disclaims all liability for damage or injury incurred by disregarding the instructions in this document, negligence in the installation, use, maintenance, or repair of the product identified in this document, or by failure to strictly abide by these safety precautions, instructions, and good installation practice.

The product's user is always responsible for adhering to any local safety laws and regulations.

## INTENDED USE

The Air Purifier is intended to remove particles from the air.

## DIRECTIONS FOR USE

Follow the instructions to ensure proper installation. The display panel will turn on if the unit is powered on.

## DISPOSAL INSTRUCTIONS

Dispose of filters according to local regulations based on the location of use (e.g., medical waste if used in a medical setting such as dental clinics, laboratories, etc.).

## GENERAL INFORMATION

This installation shall comply with all National, State and local codes.

The installation must comply with National Electrical Code ANSI/NFPA No. 70 as adopted by your AHJ.

# SAFETY PRECAUTIONS

## FIRST AID INSTRUCTIONS

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In case of injury, clean the area using soap and warm water, apply antibiotic ointment and a bandage, and seek immediate medical attention.

## FCC WARNING STATEMENTS

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in commercial and residential installations. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This equipment complies with relevant RF radiation exposure limits set forth for a public/uncontrolled environment. This equipment should be installed and/or operated with a minimum distance as below between the unit and your body: 20cm.

This product will be mounted on the ceiling and is for fixed use only. The fixed operation requirement of Section 15.255(a)(2) is satisfied.

## OPERATING ENVIRONMENT CAUTIONS

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DO NOT place in rooms with high heat, damp, or wet places. DO NOT use outdoors.

DO NOT use extension cord with this fan.

NOT FOR USE in kitchens.

DO NOT remove (or attempt to remove) any part of the unit except for the filters.

Best operating environment is 50 to 104 °F (10 to 40 °C).

Ensure the unit is level. Never use when it is tilted.

Use only a 120 V AC, 60 Hz electrical input, from a dedicated 15A circuit.

## WARNING

---

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

## **WARNING**

---

THIS DEVICE SHOULD NOT BE USED IN A CONSTRUCTION ZONE.

Extensive amounts of particulates such as construction dust and debris will clog up the filter and impact the efficiency of the unit. If construction needs to be conducted in an area where AEIRO PURE C150 units are installed, it is recommended that the unit is turned off. After the construction is concluded in the area, units are to be vacuumed and filters replaced.

## **UNIT OPERATION CAUTIONS**

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- This manual's contents must be thoroughly understood by anyone working on or with the product. Operators and personnel must adhere to the contents of this manual.
- Never change the sequence of the operations to be carried out.
- Always keep the manual in the vicinity of the product.
- DO NOT insert fingers or foreign objects into the intake or air outlet.
- Keep hair, loose clothing, fingers, and all parts of your body away from openings and moving parts.
- In the event the machine starts to make excessive vibrations or noise, overheats, or starts to smell, stop using the equipment immediately. Turn off the machine and disconnect the power and contact the manufacturer.
- DO NOT use the air purifier if the power cord or plug is damaged or the connection to the outlet is loose.
- When removing the plug, always hold the plug and never pull by the cord.
- DO NOT use the unit near hot objects, or where it may be exposed to steam or open flame.
- DO NOT obstruct the air inlets or outlets of the unit.
- To avoid the risk of fire, shock, and injury, DO NOT disassemble the unit. Contact a certified technician for service.

## **ISED WARNING STATEMENTS**

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This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference; and
- This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with relevant RF radiation exposure limits set forth for a public/uncontrolled environment. This equipment should be installed and/or operated with a minimum distance as below between the radiator and your body: 20cm.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- l'appareil ne doit pas produire de brouillage, et
- l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux radiofréquences pertinentes établies pour un environnement public ou non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale telle que précisée ci-dessous entre le radiateur et votre corps 20cm.

## **GROUP INSTALLATIONS**

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Any transmitter that is certified under this RSS may be mounted in a group installation for simultaneous operation with one or more certified transmitters, without any additional equipment authorization. However, no transmitter operating under the provisions of this section shall be equipped with external phase-locking inputs that permit beam-forming arrays to be realized.

## ⚠ WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT expose to water or rain.

RISK OF FIRE OR ELECTRIC SHOCK, DO NOT use this equipment with any solid-state speed control device.

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, DO NOT use replacement parts that have not been recommended by the manufacturer.

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND INJURY TO PERSONS, the device must be installed with brackets and screws that are marked in the installation manual to indicate the suitability with this model. Other types of brackets and fasteners cannot be substituted.

TO REDUCE THE RISK OF PERSONAL INJURY, DO NOT bend the blade brackets when installing the brackets, balancing the blades, or cleaning the fan. DO NOT insert foreign objects in between rotating fan blades.

This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they DO NOT play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

## CARE AND MAINTENANCE/SERVICING CAUTIONS

### ⚠ WARNING

RISK OF FIRE. Never operate the air purifier in a space that contains flammable gases. Never use the equipment to extract or filter flammable, blazing or burning particles, chemicals, or liquids. Never use the unit to extract or filter hostile vapors or sharp particles.

RISK OF ELECTRIC SHOCK. These servicing instructions are for use by qualified personnel only. DO NOT perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

HIGH VOLTAGE INSIDE. Disconnect power before installation, servicing or replacing filters.

CAUTION – AUTOMATICALLY OPERATED DEVICE. To reduce the risk of injury disconnect from power supply before servicing.

When the fan motors are running, the indoor air will be drawn through the front of the unit. The air will then pass through the (2) HEPA/carbon filters. The purified air is then released through the outlet on both ends of the unit.

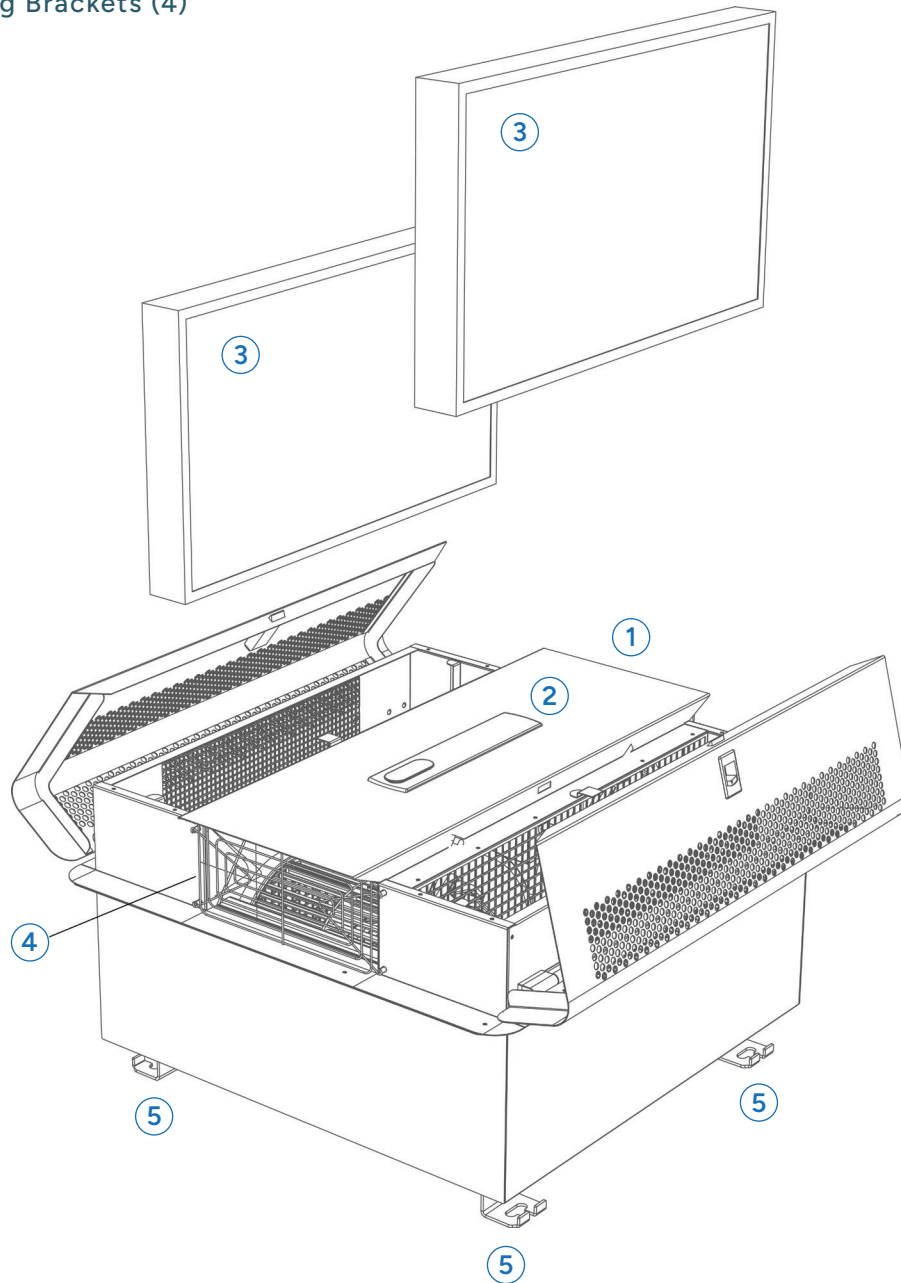
## SPECIFICATIONS

Model No.	C150 Ceiling Air Purifier
Power Requirement	120 V AC 60 Hz
Rated Power	110 W
Fan Motor	Centrifugal Fan DH176F2-055-000
Dimensions, H x W x L	15.0 x 25.4 x 23.9" (380 x 644 x 608 mm)
Weight	49.5 lb (22.8 kg)



# UNPACKING THE BOX

- ① Main Body
- ② User Interface/LCD Display/Touch Panel
- ③ HEPA Filter + Carbon Filter
- ④ Outlet Grills
- ⑤ Mounting Brackets (4)



# INSTALLATION OVERVIEW

The purifier is designed to be installed as a fixed built-in unit by a qualified installer. In addition to the following instructions the purifier shall be installed:

- In the United States, in accordance with the National Electric Code/ State, ANSI/NFPA 70 and Municipal codes and/or local codes.
- In Canada, in accordance with the Canadian Electric Code C22.1 - latest edition/ Provincial and Municipal codes and/or local codes.

## UNPACKING

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While unpacking the product, follow the instructions and markings on the packaging.

## INSPECTION

---

After unpacking the air purifier and prior to installation, thoroughly inspect the unit for freight or cosmetic damage. Report any damage immediately.

The unit can be hoisted from the concrete ceiling or the I-beam. Refer to the Installation Guide for detailed instructions.

Ensure the unit is being installed level in both directions. A lubricant should not be used on any mounting screw.

Follow ceiling tile system manufacturer instructions for integration compatibility. Install the filters after the building is completely clean of construction debris and dust.

Be sure to remove any plastic wrapping from the HEPA filters prior to installing them in the unit and operating the equipment.

## ELECTRICAL SUPPLY

---

The customer has the responsibility to ensure that the unit installation is in compliance with all national and local electrical and building codes and ordinances including but not limited to ANSI/NFPA 70. The unit shall be installed by a qualified electrician and properly grounded. The unit is designed to accept 120 V AC, 60 Hz electrical input, from a dedicated 15A circuit.

If connecting power to the unit via the optional power cord with NEMA 5-15P 3-prong plug, the receptacle shall be accessible and connected to an external electrical circuit with a fuse or breaker rated for 15.0 Amps. Receptacles shall be located to avoid physical damage to the power cord.

No other appliances should be connected to the air purifier supply circuit.

## CHOOSING THE LOCATION

---

Choose a location with the following conditions:

- Indoor Space
- Operating Temperature: 50 to 104 °F (10 to 40 °C), Relative Humidity: <75%

Built-in fixed units must be enclosed at the posterior and unobstructed from the front and all sides.

For new installation, the work must be performed by a qualified installer.

It is recommended that AEIRO PURE C150 unit is positioned centrally within a room. It is important that the intake side of the unit is away from the supply of the HVAC system. To improve air quality in the room, the unit should circulate and filter the existing air in the room, not the fresh air supplied by the HVAC system. Likewise, the position of the output side of the unit should be away from the return ducts of the HVAC system. This is to ensure that the clean air coming from the unit is not immediately removed from the room by the HVAC system.

### **WARNING**

---

SUPPORT DIRECTLY FROM THE BUILDING STRUCTURE IF INSTALLED IN THE CEILING.

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS OBSERVE THE FOLLOWING:

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- When cutting or drilling into a wall or ceiling, DO NOT damage electrical wiring and other hidden utilities.

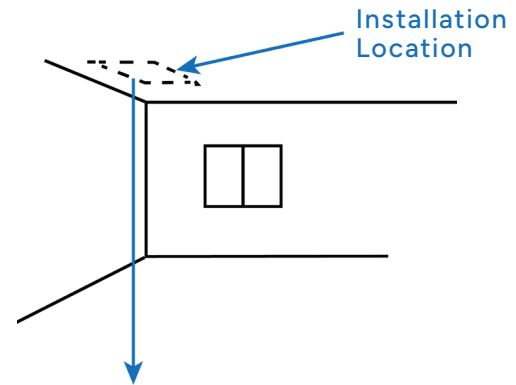
MAKE SURE THE CIRCUIT BREAKER SUPPLYING POWER TO THE UNIT IS OFF BEFORE ATTEMPTING INSTALLATION.



# INSTALLATION INSTRUCTIONS

## CONCRETE CEILING

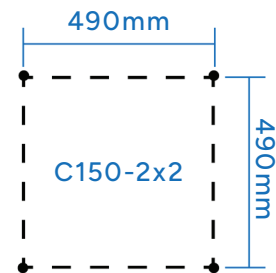
1. Determine the installation location; the reinforced concrete ceiling must be selected for installation.



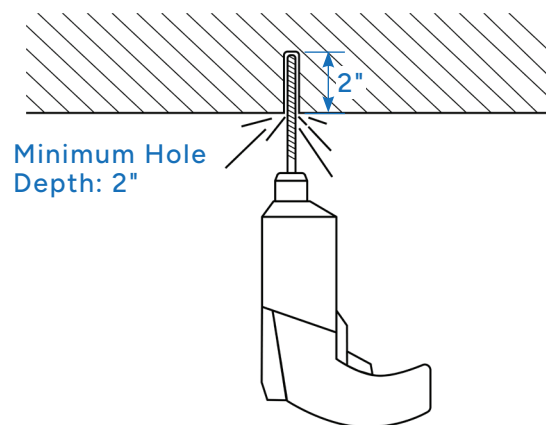
2. Draw a rectangle at the installation position with dimensions as follows:

C150-2x2: 490mm x 490mm

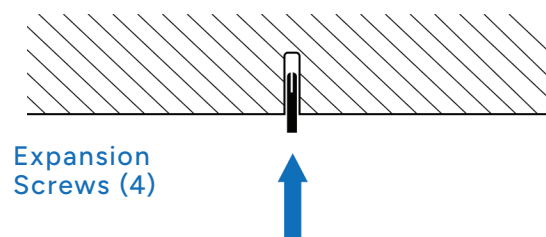
The four vertices of the rectangle are the anchor points for installing the expansion screws.



3. Use an electric hammer to drill holes in the four anchor points, ensuring a minimum depth of two inches into the slab.



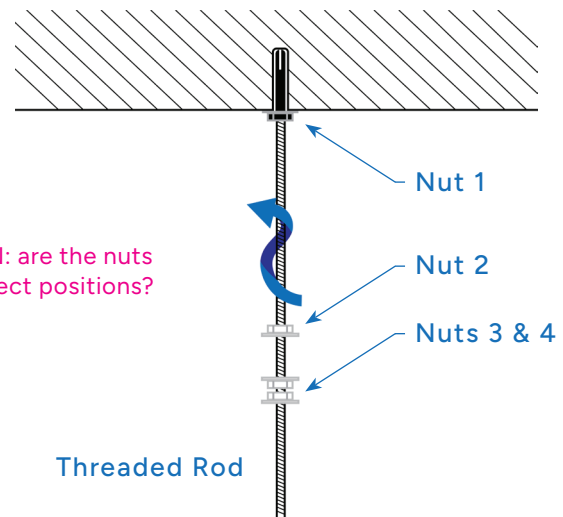
4. Install and drive the expansion screws.



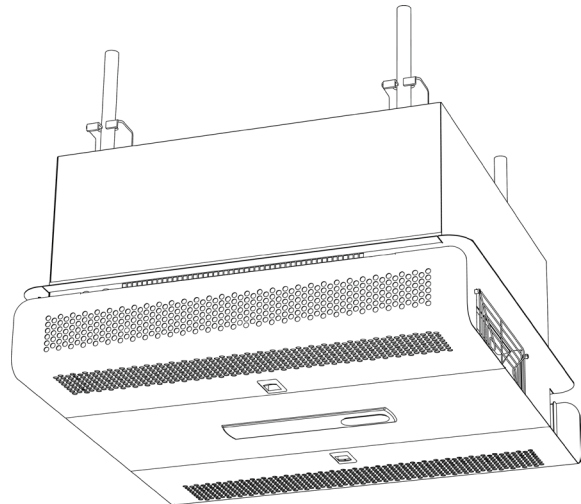
## CONCRETE CEILING continued

5. Screw in the threaded rods, and then screw on the four nuts, where Nut 3 is next to Nut 4. The position of each nut should be at the same height from the ceiling.

QUESTION: are the nuts in the correct positions?

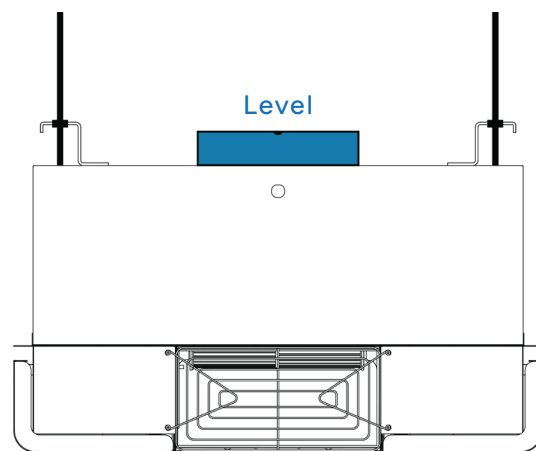


6. Lift unit in place and position the four threaded rods through the four mounting brackets. Hang unit on the threaded rod between Nuts 3 & 4.



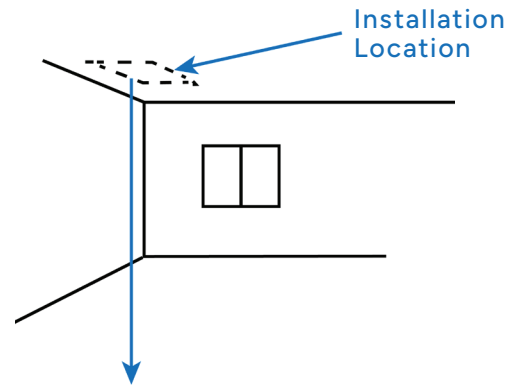
7. Using a level in both directions, adjust Nut 3 and Nut 4 to ensure the machine is leveled horizontally. Finally, tighten Nuts 3 and 4 to fix the machine in place.

Connect the power to complete the installation.



## I-BEAM CEILING

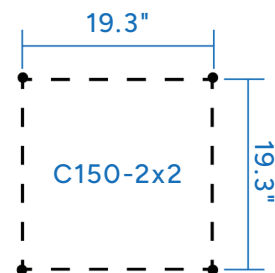
1. Determine the installation location; the reinforced concrete ceiling must be selected for installation.



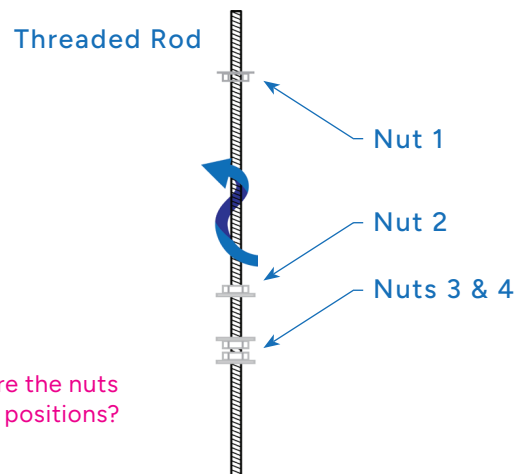
2. Draw a rectangle at the installation position with dimensions as follows:

C150-2x2: 19.3" x 19.3"

The four vertices of the rectangle are the anchor points for installing the threaded rods.

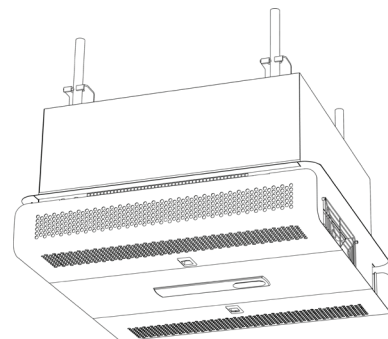


3. Assemble the four threaded rods by screwing on the four nuts, where Nut 3 is next to Nut 4 as shown (right). The position of each nut should be at the same height on all rods.



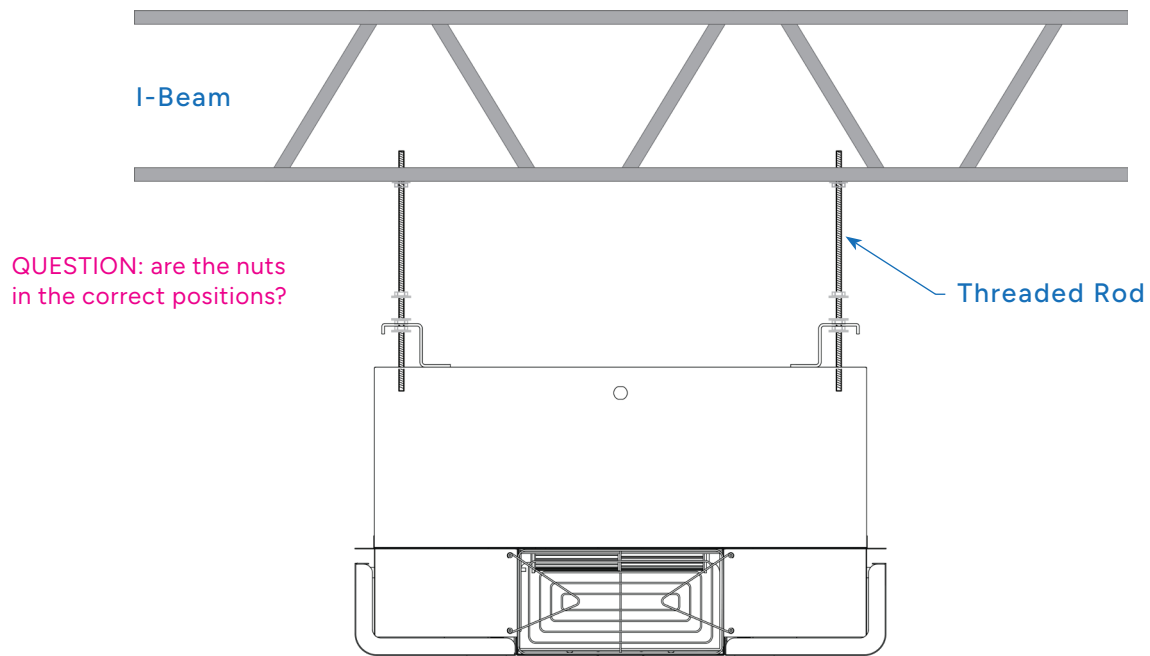
QUESTION: are the nuts in the correct positions?

4. Install the four threaded rods through the four mounting brackets on the unit. Secure each mounting bracket to its threaded rod between Nuts 3 & 4.



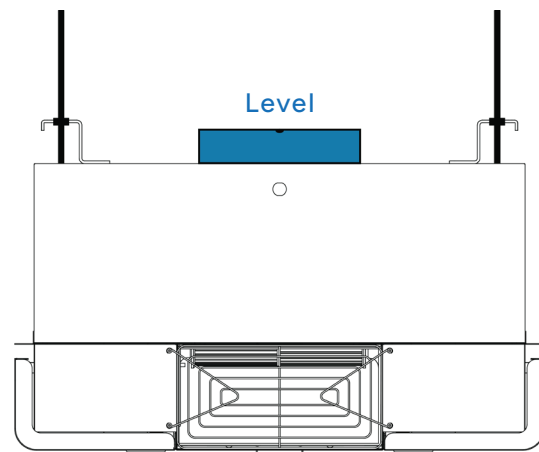
## I-BEAM CEILING continued

- Secure the threaded rods to the I-Beam as shown.



- Using a level in both directions, adjust Nut 3 and Nut 4 to ensure the machine is leveled horizontally. Finally, tighten Nuts 3 and 4 to fix the machine in place.

Connect the power to complete the installation.



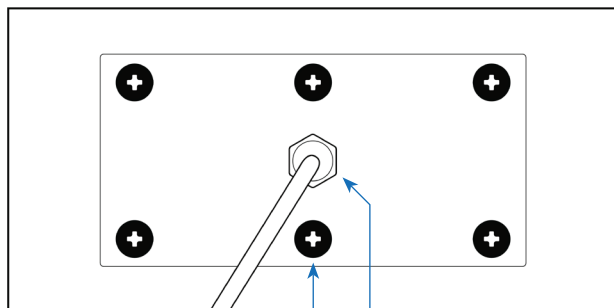
# UNIT WIRING INSTRUCTIONS

## OPTIONAL CART MOUNTING

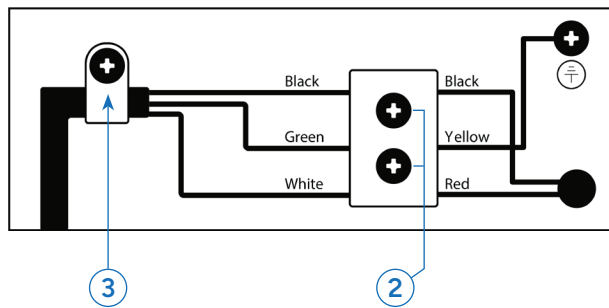
QUESTION: Should this subhead change to a more generic "Power Cord Replacement"?

When the optional cart mount is selected, a 6-foot (1.8 m) power cord with a 3-prong NEMA 5-15P plug is pre-installed.

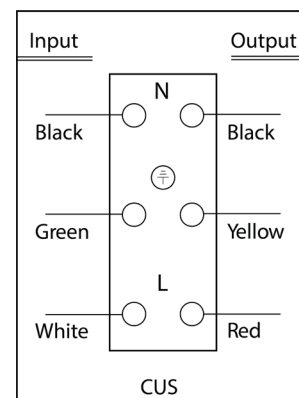
If you need to replace the power cord, please have a professional carry out the operation according to the following steps:



Power Cover



- 1 Remove the power cover (six screws).
- 2 Loosen the two screws and then pull out the three wires.
- 3 Unscrew the strain relief fastening screw.
- 4 Unscrew the wire protection cover and pull out the old power cord.
- 5 Thread the new power cord into the power termination compartment, and terminate the "N" neutral, "GND" ground, and "L" line wires according to the diagram. Tighten all the screws to securely fasten the new power cord.
6. Re-install the power compartment cover and screw on the wire protection cover.



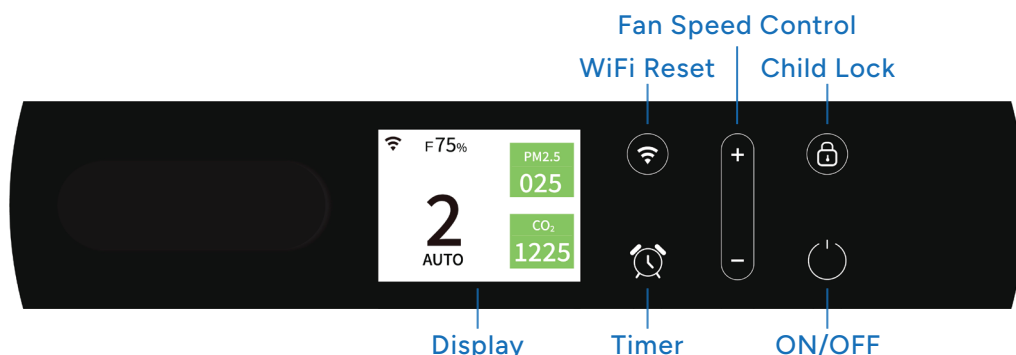
Wiring Diagram 5

**NOTE:** Metallic conduit shall be properly bonded in accordance with the National Electrical Code (NFPA 70) Article 250 - Grounding and Bonding, and any applicable local code requirements.

1. Connect the appropriate conduit and fitting as necessary for the application.
2. Route the wires as shown and make connections according to the label located on the product.
3. Tighten the strain relief clamp sufficiently to hold the wires being careful to not damage them with excessive torque.

# UNIT OPERATION

## USER INTERFACE (LCD DISPLAY/TOUCH PANEL)



### ON/OFF

The purifier operates on fan speed 2 when turned on. See "Start Up Speed" on remote control for changing the default speed.



### Child Lock

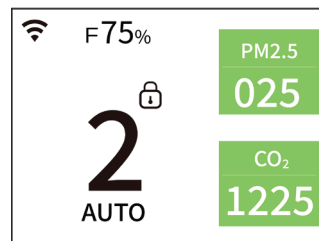
Hold for 5 seconds to turn on/off the child lock.



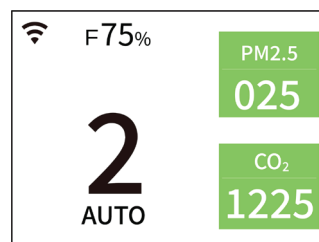
### Fan Speed Control

In the speed interface, tap "+" to increase speed in the sequence: Sleep → 1 → 2 → 3 → 4 → AUTO.

Tap "-" to decrease speed in the sequence: AUTO → 4 → 3 → 2 → 1 → Sleep.




Child Lock is On



Speed Interface



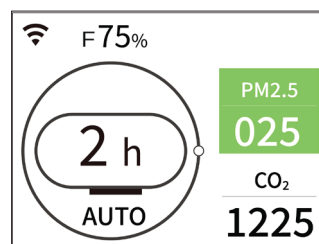
### WiFi Reset

When using WiFi for the first time or switching accounts, press and hold this button for 5 seconds to reset the WiFi and enter pairing mode. The icon  will blink during this time, indicating that you can now use the "AEIRO APP" to complete the pairing and connection process.



### Timer

Press to access the timer interface. Subsequent presses cycle through timing options or exit the mode, with the sequence: 1h-2h-4h-8h-12h-Exit. The current selection is automatically confirmed after 2 seconds of inactivity in the timer setup interface.

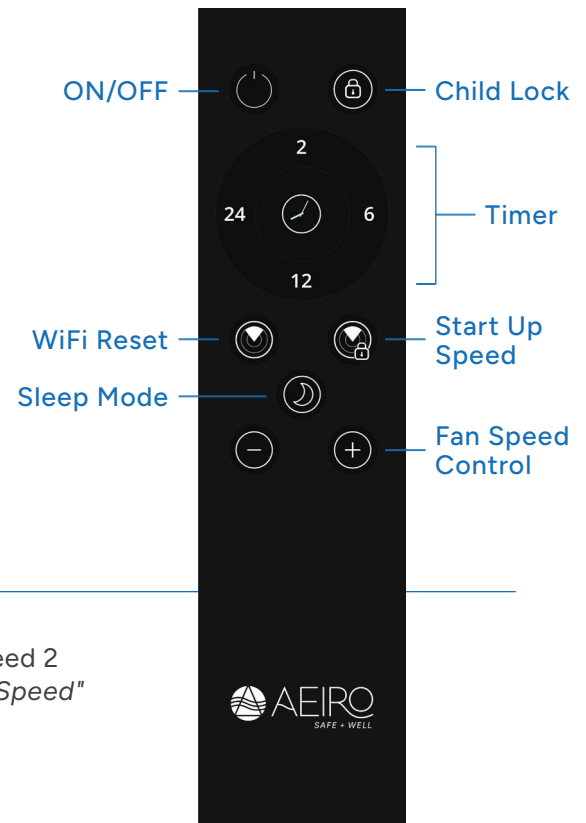


Timer Interface


NOTE: Icons are not high-res.  
Need to be redrawn or replaced.


## AIR QUALITY INDICATOR COLOR


CO <sub>2</sub>	0-999 Good	1000-1499 Unhealthy	≥ 1500 Very Unhealthy	
PM2.5	0-14 Good	15-34 Moderate	35-64 Unhealthy for Sensitive Groups	≥ 65 Unhealthy



## USER INTERFACE (REMOTE CONTROL)


- 
**ON/OFF**



The purifier operates on fan speed 2 when turned on. See "Start Up Speed" for changing the default speed.
- 
**Child Lock**


Turn on/off the child lock.
- 
**Timer**


Press to access the timer interface. Subsequent presses cycle through timing options or exit the mode, with the sequence: 1h-2h-4h-8h-12h-Exit.


The current selection is automatically confirmed after 2 seconds of inactivity in the timer setup interface.

Alternately, you may press the 2, 6, 12, or 24 buttons to start the timer for the respective length of time.
- 
**WiFi Reset**

When using WiFi for the first time or switching accounts, press and hold this button for 5 seconds to reset the WiFi and enter pairing mode. The icon  will blink during this time, indicating that you can now use the "AEIRO APP" to complete the pairing and connection process.
- 
**Start Up Speed**

The purifier operates on fan speed 2 when turned on (factory preset). To change the start up speed, set the fan to the desired speed using the Fan Speed Control buttons. Then press the Start Up Speed button to lock the current fan speed as the default start up speed.
- 
**Sleep Mode**

Turn on/off the sleep mode. In sleep mode, the display turns off; pressing any button wakes up the display.
- 
**Fan Speed Control**

In the speed interface, tap "+" to increase speed in the sequence: Sleep → 1 → 2 → 3 → 4 → AUTO.
- 

Tap "-" to decrease speed in the sequence: AUTO → 4 → 3 → 2 → 1 → Sleep.

NOTE: Icons are not high-res.  
Need to be redrawn or replaced.

# CARE AND MAINTENANCE

## CAUTION

---

DO NOT clean the filters and any other parts with liquid, especially alcohol, gasoline, paint thinner, etc. It may cause a risk of fire!

Make sure all the filters are installed properly before operating the unit.


When conducting maintenance on the unit, be sure the unit is turned off and the plug is disconnected from the outlet.

Never handle the plug with wet hands. Electrical shock and bodily injury may occur as a result.

## REPLACING THE FILTERS

---

When the filter timer is 0% on the screen, the filters need to be replaced.

1. Turn the unit off and disconnect the plug from the outlet.
2. Open the front panel by sliding the latches open on both sides.
3. Rotate the lock tab 90 degrees and remove the filters from the unit.
4. Clean the interior compartment of the unit by vacuuming and removing any debris that has accumulated.
5. Place new filters in the housing and make note of the air-flow direction. Slide the filter in place; the white side should point outwards. Rotate the lock tab 90 degrees to lock position. Close the front panel.
6. After replacing the filters, hold  and "-" for 5 seconds to reset the filter to 100%.

It is recommended to clean the air inlet with vacuum cleaner after the filters are replaced.

## CLEANING THE UNIT

---

1. Turn the unit off and disconnect the plug from the outlet.
2. It is recommended to vacuum the air inlets every 6 months for optimal performance.
3. Wipe the exterior of the unit with a soft, clean and lint free cloth.

## CAUTION

DO NOT use volatile fluids, gasoline, chemical solvents, benzene, paint thinner or corrosive/abrasive materials and polishing powder as this may damage the surface.

DO NOT use detergents, as detergent ingredients may also damage the unit.

Keep the unit away from water.

DO NOT insert foreign objects into the inlet or outlet of the unit. It could lead to injury.



# TROUBLESHOOTING

## SERVICE SOLUTIONS

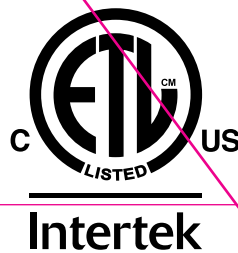
Most service problems that appear to be major can often be resolved easily. You can be your own troubleshooter by reviewing the following guide. All other major servicing should be done by the manufacturer.

NO.	FAILURE	POSSIBLE CAUSE	SOLUTION
1	Unit is inoperable	Main circuit breaker in not ON	Turn main circuit breaker to ON position
		Blown main circuit breaker fuse	Replace the main circuit breaker fuse
		Unit not hardwired correctly	Refer to "Unit Wiring Instructions" and confirm proper hardwiring
		Wires disconnected from mains or soft set	Refer to "Unit Wiring Instructions" and confirm proper hardwiring
		Damaged power cord	Replace damaged power cord
2	Fan works but the air cleaner functions poorly or not at all (reduced airflow or poor filtration)	Plastic wrapping not removed from one or both filters	Remove plastic wrapping from filters
		Air outlets blocked	Inspect and remove any blockage from air outlets at both ends of the unit
		One or both HEPA filters are fully loaded	Replace HEPA filter(s)
3	The 'F0%' flashing on the screen	Filter change cycle timer expired	Replace HEPA filters and reset the timer
4	Remote Control is inoperable	Battery nearly exhausted	Replace batteries
		Unit's display panel is covered	Confirm and remove any obstruction in front of the display panel

## ION OUTPUT VOLTAGE AND ION CONCENTRATION PARAMETERS

ITEM	ION VOLTAGE VALUE (DC)	ION CONCENTRATION (STANDARD STATE)
Positive Voltage	2.0±1.0 KV	≥ 3.0×10 <sup>6</sup> ions/cm <sup>3</sup>
Negative Voltage	4.0±1.0 KV	≥ -5.0×10 <sup>6</sup> ions/cm <sup>3</sup>

See next page for  
revised content



VERIFY ACCURACY  
(LOGOS FROM GPS PDF)

IS THIS CONTENT  
NECESSARY?

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## REVISION HISTORY

RO: Original Release

PROPOSED  
BACK COVER LAYOUT



ALTERNATE  
DISCLOSURE  
LAYOUT

**REVISION:** R0 Original Release

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