



Installation & Maintenance Guide

This document applies to the CirrusAir Strata Plus Whole Home Air Purifier

All phases of this installation must comply with national, state and local codes

IMPORTANT—This document should be returned to the customer upon completion of the installation.



CirrusAir Strata Plus



CirrusAir Strata Plus

WARNING

This information is for use by individuals having adequate knowledge of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and/or property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

RISK OF ELECTRIC SHOCK: These servicing instructions are for use by qualified personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in these operating instructions unless you are qualified to do so.

Installer's Guide

The CirrusAir product arrives in two shipping containers. One box contains the chassis and filter and the other box contains the CosaTron Air Purification System (CAPS).

Step 1: Unpacking the Product(s).

CirrusAir products come in one or two boxes depending on the model as follows:

- 1) CirrusAir = One box
- 2) CirrusAir Strata Plus = Two Boxes

Remove the CirrusAir product(s) from the shipping container(s). Look for obvious shipping damage and report any damage to CirrusAir via the online contact form [here](#).

Step 2: Remove the filter access door

To install the CirrusAir product into the HVAC system it is necessary to access the inside of the product – to fasten to existing duct or air handler. Remove the Filter Access door by turning the fastener at the top and bottom (shown in image 1) of the door ¼ turn.



Image 1: Remove the filter access door by turning the fasteners ¼ turn.

Step 3: Remove the filter

Slide the filter out by gripping the cardboard surround lightly on either side and pull the filter out in a straight motion. Set the filter to one side.



Image 2: Remove the filter and set aside

Step 4: Remove the front plate

Remove the front plate of the CirrusAir box by removing the four screws indicated in image 3 below.



Image 3: Remove the front plate by removing the four screws.

Step 4: Install CAPS Rails (if not already installed)

The CAPS unit slides in to rails installed in the CirrusAir unit. If your CirrusAir unit has these rails already fitted move to step 5. If the rails are not installed they will be located in the CAPS box.

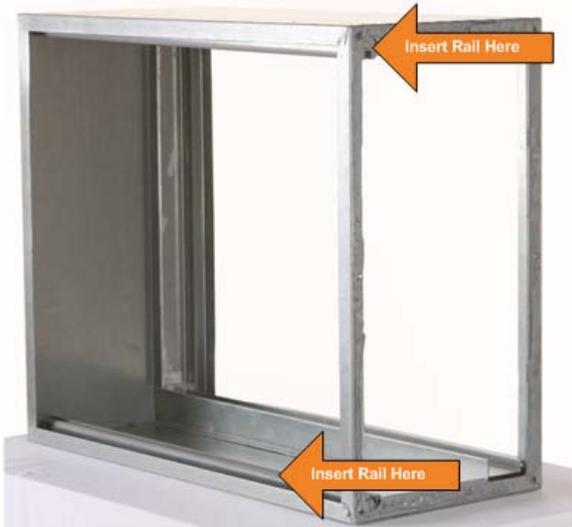


Image 5. Fit the rails into the two tracks using a nylon hammer or mallet.

Note: The rails are designs to pressure-fit in to the supporting tracks. Use a nylon hammer to install the rails until they are seated firmly into the track.

Step 5: Determine Return Air Flow Direction.

The CirrusAir product is installed in the return air path of the HVAC system. The product fits a standard rectangular plenum 20" X 25" (50.8cm X 63.5cm) and requires 11" (28cm) of space. Figure 1 right shows the dimensions, air flow and component parts of the product.

To determine airflow direction in the return air path, set the fan to ON and open the access door to the filter and remove the



Image 4. In some units it may be necessary to install the two rails to support the CAPS.

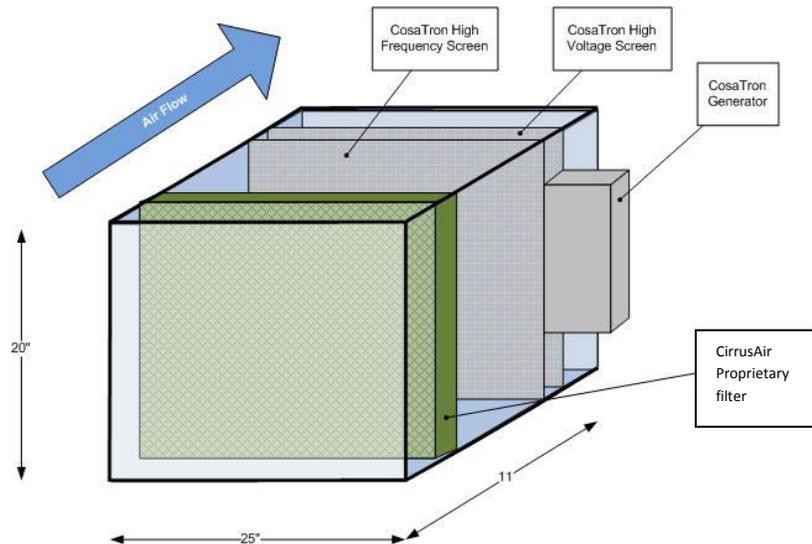


Figure 1. CirrusAir Strata Plus showing return air flow direction, dimensions and system components.

filter from the existing air handler (CirrusAir Strata Plus includes a proprietary 2" pleated filter). If the air flow direction is not obvious, hold a piece of paper in where the filter was previously house and note the direction it is bending. This determines how the CirrusAir product will be configured in step 3.

NOTE: The filter should ALWAYS be the FIRST item the return air passes through.

Once you have determined the correct orientation for the CirrusAir product move on to Step 6.

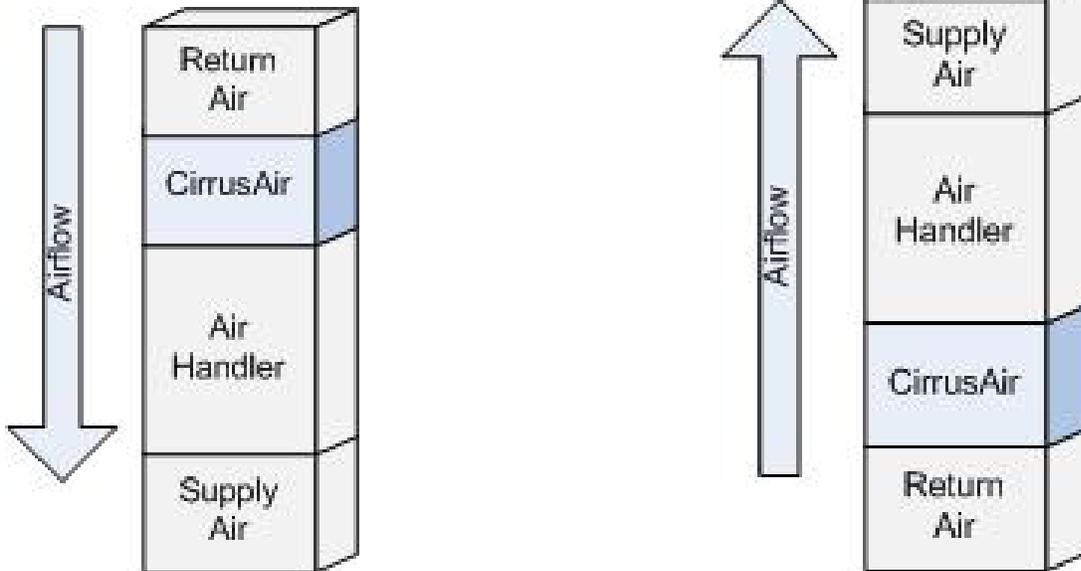


Figure 3a. Vertical airflow configuration

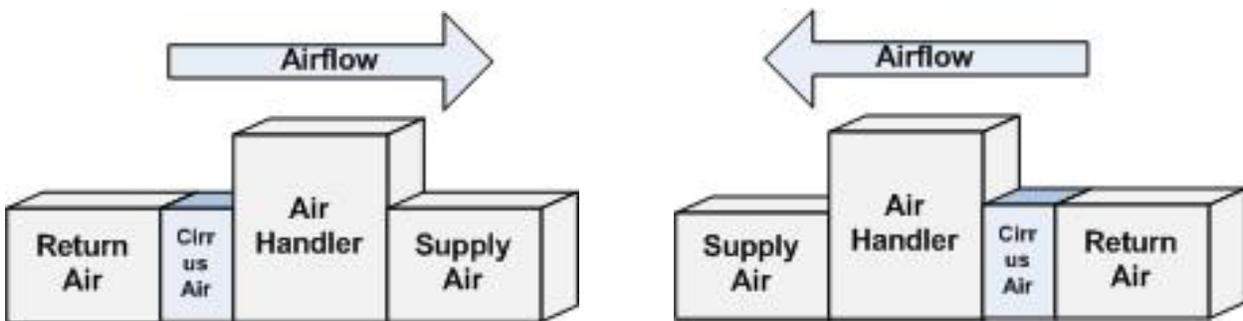


Figure 3b. Horizontal airflow configuration

Figure 3a and 3b below show the correct position for the CirrusAir product in both vertical 3a and horizontal 3b configurations.

Step 6. Configure the CirrusAir Product

By inverting the CirrusAir chassis you can install the unit with the filter door on the left or the right and facing the direction you need to provide sufficient filter access.

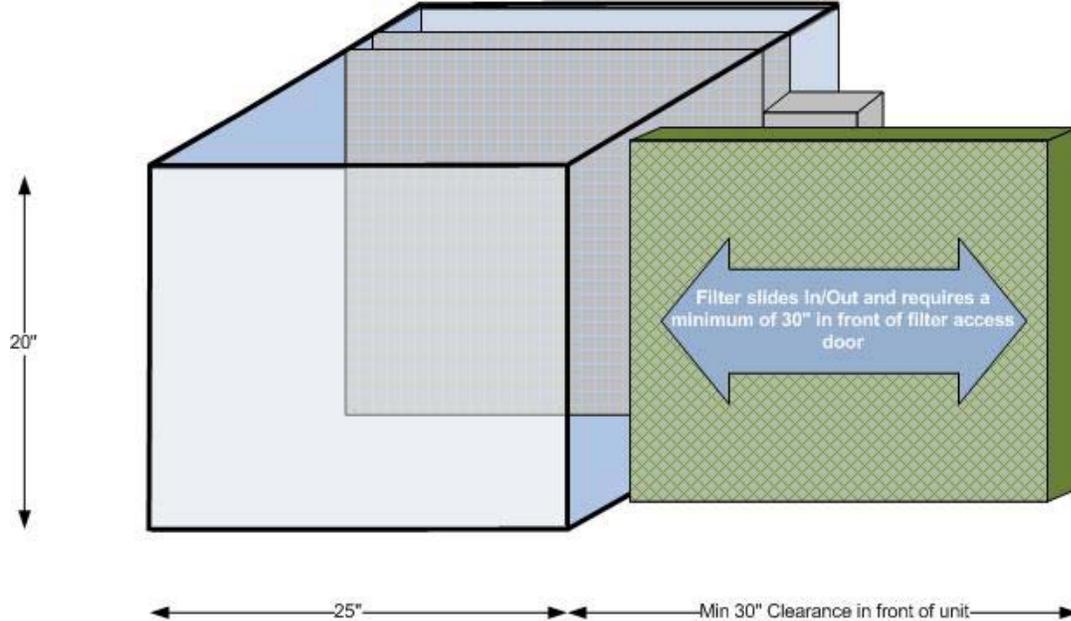


Figure 2. Allow for a minimum of 30" in front of the installed CirrusAir unit to remove and replace the filter during routine maintenance.

Step 7. Determine filter accessibility.

It is necessary to replace the CirrusAir 2" pleated filter approximately twice per year depending on the air quality inside the home. It is therefore important that the homeowner has easy access to the filter and operation lights of the system. Figure 2. Shows the amount of clearance required to access the filter on the unit.

DO NOT replace any of the components until the chassis is installed in the duct.

Step 8. Opening the Duct to Accommodate CirrusAir

You will need to provide an 11" (28cm) space in the return air duct to install the CirrusAir. This is typically easiest at the air handler. Remove the duct tape and sheet metal screws that fasten the return air duct to the air handler. If you have a circular return air duct, it may be necessary to install a duct adapter to accommodate the CirrusAir product. Remove or separate the return air duct to provide 11" space.

Step 9. Support the CirrusAir Chassis

Provide adequate support for the product which weighs 32.8Lbs (14.9kg). The chassis can either be supported underneath or suspended from a ceiling joist or other mounting area. Be sure to have the unit supported evenly so it is sitting square.

Step 10: Fasten the CirrusAir to existing duct.

Using self-tapping sheet metal screws fasten the CirrusAir product to the existing duct and air handler on the inside of the chassis using the turned-in flange as shown in image 5 below.



Image 5: Use sheet metal screws to fasten the CirrusAir chassis to existing duct and air handler from the inside

Note: Tape the joint to eliminate leakage

Step 8: Install CAPS unit

Carefully slide the CAPS unit into the gray rails shown in image 6 below. Avoid putting stress on the nylon connectors that support the grids. Make sure the unit is seated all the way in and the holes on the CAPS faceplate align with the holes in the chassis.



Image 6: Carefully slide the CAPS grid into the top and bottom rails until it is seated all the way into the chassis.

Step 9: Re-Attach CAPS Faceplate

Fasten the 10 crew(four screws removed in step 4 plus additional screws provided in CAPS box), being careful not to over tighten.

Note: To ensure proper sealing, the insulating foam should be compressed no more than 50% of its thickness when the screws have been replaced and tightened.

Step 10: Reinstall the Filter

Carefully slide the CirrusAir proprietary 2” pleated filter, designed by one of the world’s leading commercial filter manufacturers, back into the unit using the filter slide track shown in Image 7 below.



Image 7: Carefully slide the CirrusAir 2” pleated filter back into the unit using the slide track.

Note: If airflow direction is not indicated on the filter, the wire side of the filter should be facing AWAY from the CAPS grids i.e. facing the return air stream.

Note: If neither LEDs are illuminated check the seating of the filter access door and make sure it is secure.

Step 11: Reinstall Filter Access Door

Insert the two door fasteners into the holes at the top and bottom (left and right for horizontal installations) of the door access holes. Some fasteners require a flat blade screw driver and others are operated by simply turning the knob. In either case, apply some pressure and turn the fastener $\frac{1}{4}$ turn or until the door is held by the fastener grip. The door should fit snugly against the insulation with no air gaps.

Step 12: Connect Unit to Power

CirrusAir is delivered with a 6' (1.8m) captive cord with a three pin molded power connector. Plug the connector into a non-switched 110V grounded outlet.

Check that the product is working by verifying that the two green High Voltage and High Frequency LEDs are illuminated on the front of the CAPS system. As shown in image 8 below.

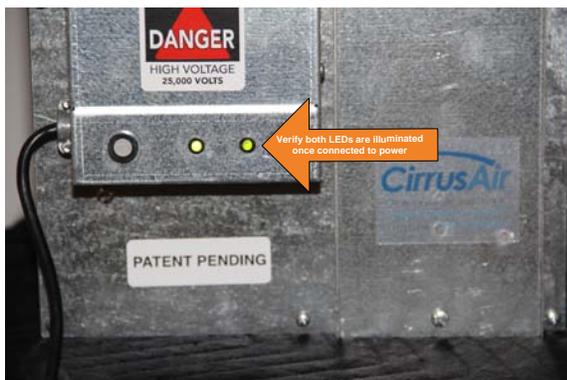


Image 8: Verify the two green LEDs are illuminated once connected to power.

CirrusAir

Maintenance

Guide

NOTE: Prior to performing any maintenance on the CirrusAir product, power should be removed completely from the unit and you should wait for two minutes to ensure the charge on the screens has dissipated.

The CirrusAir Strata product family requires very little maintenance. To ensure maximum effectiveness and energy efficiency the CirrusAir 2" pleated filter should be replaced periodically.

For a typical house you should change the filter every six months. For houses with multiple furry friends, close to wooded areas or other environmental conditions that cause elevated particulate such as; industrial areas, saw mills, smelting plants, fossil-fuel burning power stations etc. you should replace your filter more frequently.

Replacing the Filter

Remove the filter access door as indicated in Image 9 below.



Image 9: Remove the Filter Access Door by turning the two access screws.

Hold the filter at top and bottom and gently slide it out. See Image 10 below.



Image 10: Carefully slide out the filter

Install the new filter ensuring it is seated all the way inside and replace the Filter Access door.

Note: Do not over-tighten the Filter Access door screws.

Ensure correct operation

Once you have installed the new filter and closed the filter access door. Reapply power to the system.

Note: The two green LEDs on the front of the CAPS unit as indicated in image 11 below should be illuminated indicating correct operation.

If one or both LEDs are not illuminated, the Filter Access door is not completely seated. With the power on, turn the Filter Access door screws until both lights turn on. If the access screws are fully seated and cannot be turned further with regular pressure, contact CirrusAir tech support on 1844 2 CIRRUS (1844 224 7787).

Follow the three step instructions on the site and use our secure checkout to complete your purchase. Please allow five days for delivery using UPS ground. Faster delivery service can also be selected.

CirrusAir Contacts

Technical support: 1-844 2 CIRRUS
1-844 224 7787

Website: www.cirrusairtech.com

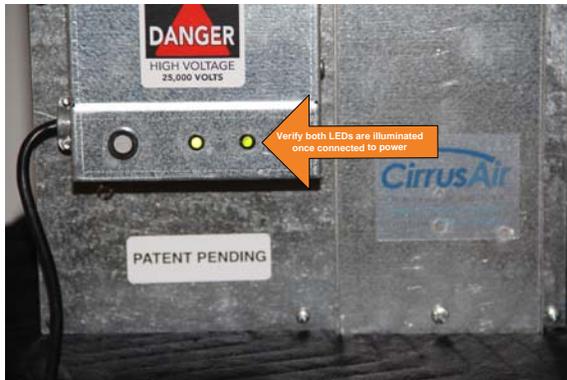


Image 11: After restoring power to the unit, ensure the two status LEDs are both illuminated.

Ordering New Filters

Ordering new filters is quick and simple via the CirrusAir website at:

<http://www.cirrusairtech.com/product/filter/>