

lakeair[®]

Clean Air ~ Everywhere

Operating and Service Manual LA2-RC2 General Models



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ABOUT Your LA2-RC2-Kitchen

The LA2-RC2 air purifier was designed to provide long service. The unit was designed to be easily repairable. The product warranty is 7 years but you can expect 15 or more years of useful product life. The LA2-RC2 is a heavy duty all air purifier. There are no circuit boards. We use simple switches that if necessary are easy to replace.

Unpacking

Your LA2-RC2 air purifier is shipped on a 26" x 26" pallet. If you ever need to ship your air purifier back to the factory it **MUST** be shipped strapped to a pallet. The LA2-RC2-Kitchen was designed to be easily repaired so it is unlikely to need to ship your unit back.

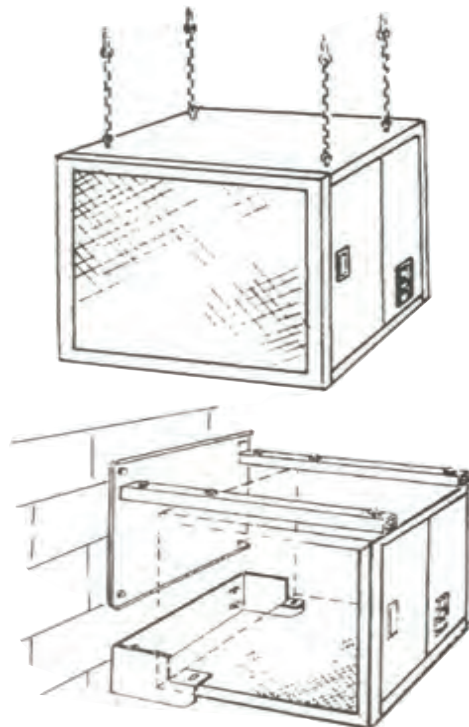
Care should be taken while unpacking the MAX Guard. The unit is quite heavy and the box should be placed in the upright position. It may be necessary to slice the corners of the box if you are unable to lift the unit out.

It is a good idea to get help from another person while removing the unit from the box. Place the air purifier on a flat surface. The LA2-RC2-Kitchen is a high-volume air purifying system and can clean the air in a large area. However, to clean the air, the air must get to the unit. Unit location will be best if the product is close to the origin of kitchen odors, smoke and fumes. The next best option would be to locate the unit in the center of the room. When choosing your best location be sure to allow for easy access to the filter access door. If you can't put the unit in an ideal location the use of an additional fan to move the air in the space may be helpful.

Mounting LA2-RC2

The LA2-RC2 was designed with 4 mounting holes on the top and the bottom of the unit. LakeAir provides eye bolts with the units so they may be hung by chains from supporting beams on the ceiling.

If you choose the optional wall mount for the LA2-RC2, see the instruction sheet included with the Model 101091 Wall Mount. To mount using the included eye bolts, follow the instructions below. The unit may be hung so the air flow is from the left to the right, or from the right to the left depending on the needs of the customer.

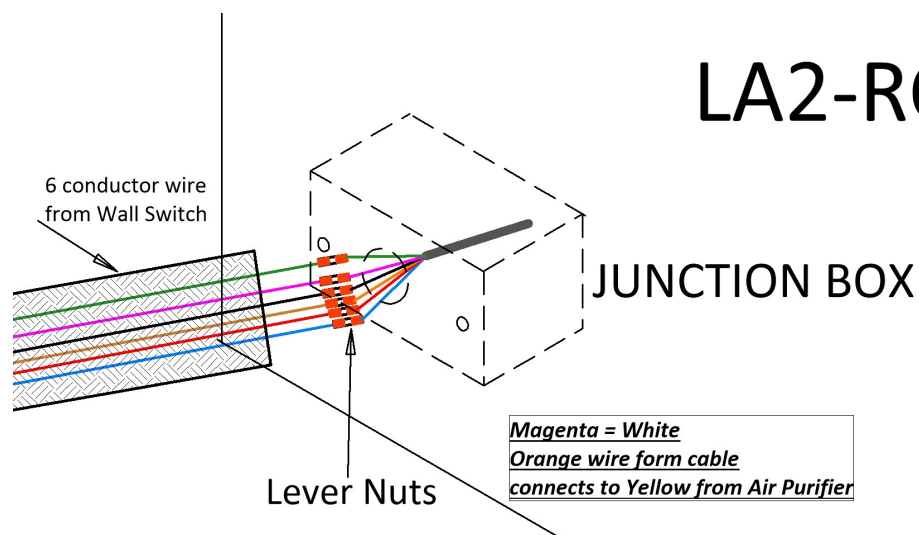


Wiring at Air Purifier

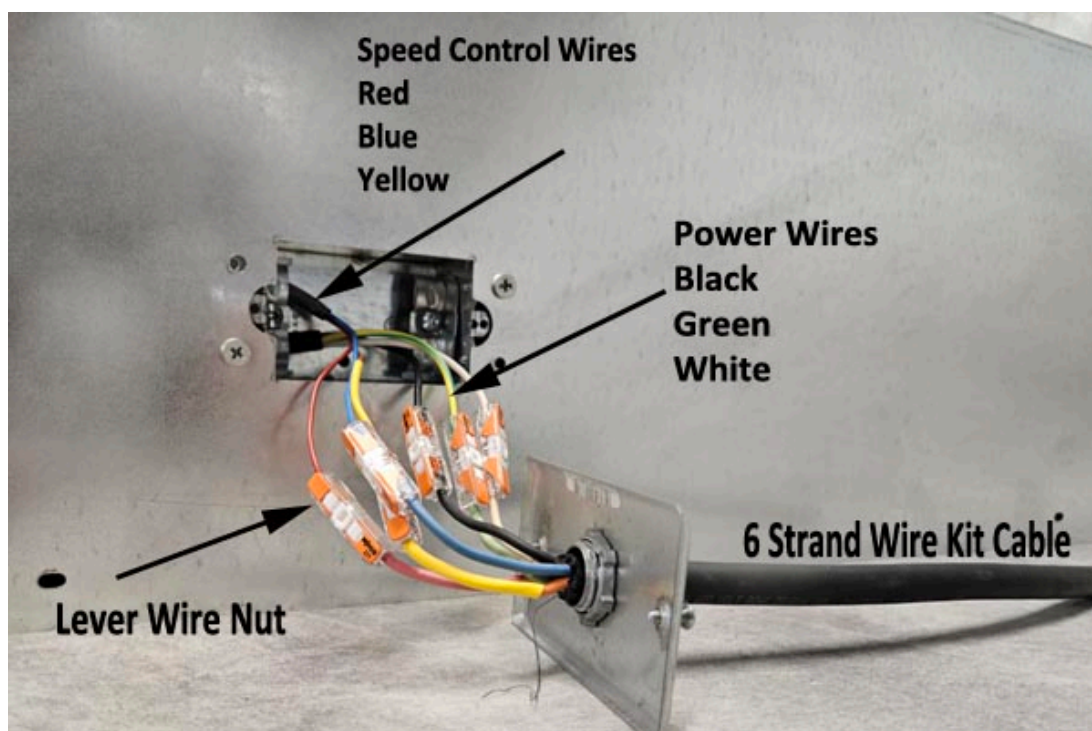
The LAFC-RC2 is controlled by a variable speed control potentiometer. ***(Note the LAFC-RC2 must be wired with the potentiometer for the unit to operate properly. If the potentiometer is by-passed the unit warranty is voided)*** The on board part of this wiring is held in a junction box on the side of the unit. This wire can be accessed by unscrewing to cover plate. There is a knock out for wire connection on the access plate.

The wire coming from the unit (unless ordered with on-board speed control) has 6 conductors.

All 6 wires from unit must be connected. The LINE (main power) must run through the potentiometer. The NEUTRAL and GROUND must be connected directly to the unit. The 3 speed control wires from the unit must be connected to the potentiometer.

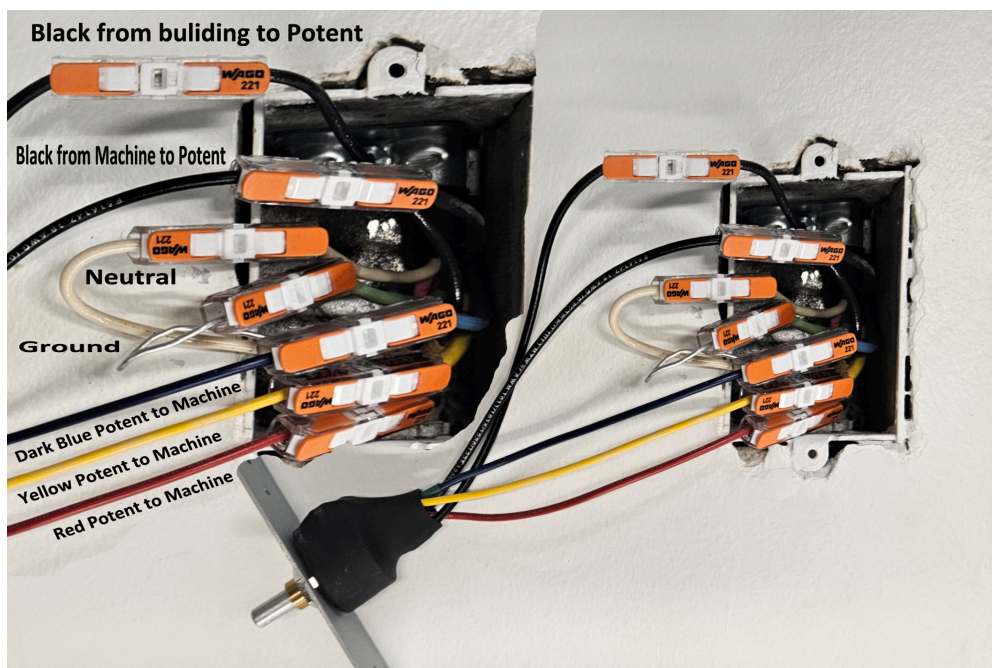
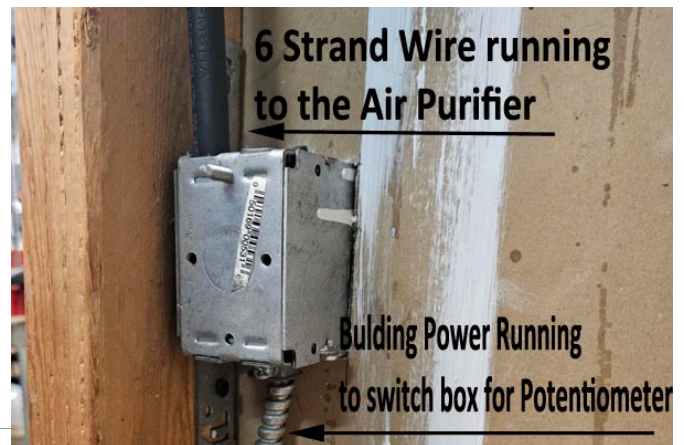
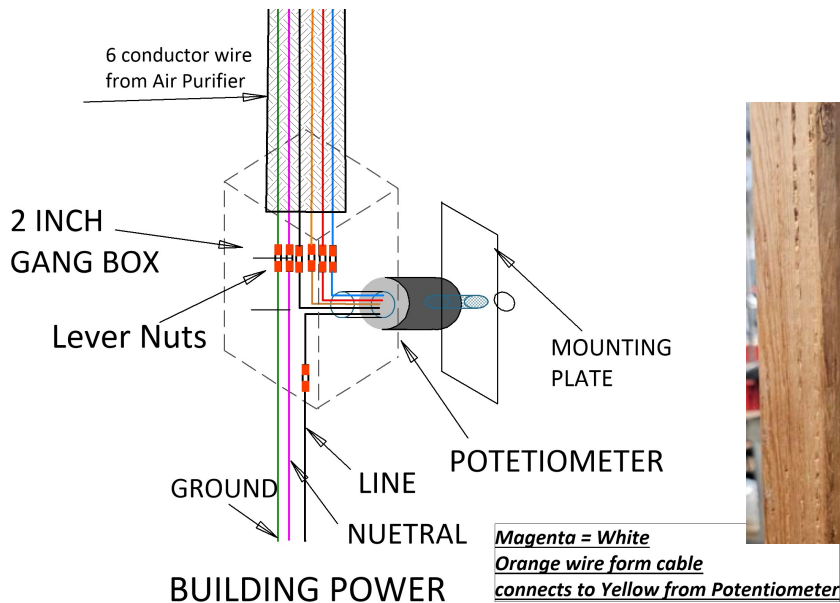


For more easy installation, you can buy a wiring kit (shown below) from LakeAir .



Wiring at Wall

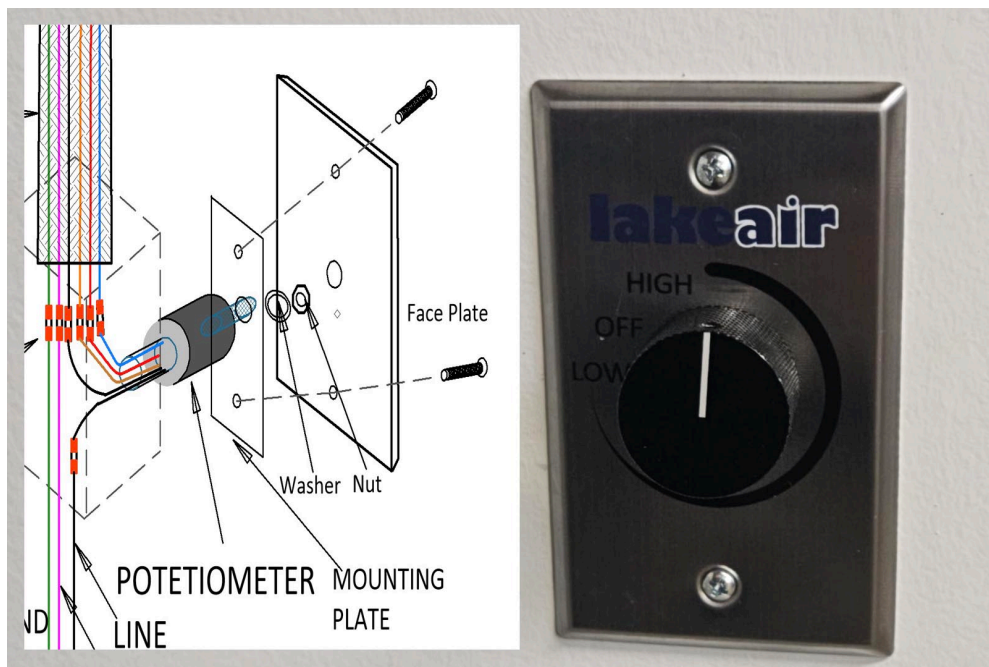
The power from the building should be run to a switch box . The LINE Runs through the potentiometer. The NEUTRAL and GROUND runs directly to the unit. The speed Control wires run from the potentiometer to the unit. See Images Below for clarification.



You do not have to use the LakeAir Wiring Kit, Low voltage speed control is often hooked up using thermostat wire. Be sure to use a heavy enough gauge wire for the air purifier (maximum 4.4 amps per unit)

Face Plate

The potentiometer should be attached to the mounting plate. There is an alignment hole in the mounting plate. Secure the potentiometer to the mounting plate using the lock washer and nut. The Face plate can then be attached with the screws included, through both the face plate to the switch box



Wiring with on board Potentiometer

If you ordered your unit with the potentiometer mounted in the unit you need only hook up the building power to the unit. The wires coming from the unit will be power wires and they need to be connected to line, neutral and ground from the buildings power.

Operation

Once the unit is plugged in or appropriately wired. The unit is turned on with the Potentiometer knob. Turn the knob clockwise. At the beginning you should hear and or feel a click. This is the unit turning on. The Potentiometer has 2 functions. the first click is on and off. The rest of the travel in the knob is speed control.

Immediately after the click is Turbo speed setting. As you continue to turn the knob clockwise the blower speed will decrease. An important thing to remember is that the blowers on low are very quiet and the blower take 15-25 seconds before starting.

Getting to Know your LA2-RC2

LA2-RC2 filter packages Vary from model to model. They can include a pre filter, grease filter, electrostatic filter cell, media filter, HEPA filter and carbon filter. It is important to regularly inspect, clean and replace filters as needed. Failure to do so may lead to poor unit performance and voiding of the product warranty. The Blowers in this unit depend on air flow to keep the cool. Insufficient air flow may cause the motor bearings to over heat and fail. The Blowers are rated for 60,000 hours of normal use. Proper maintenance can greatly extend the blower life.

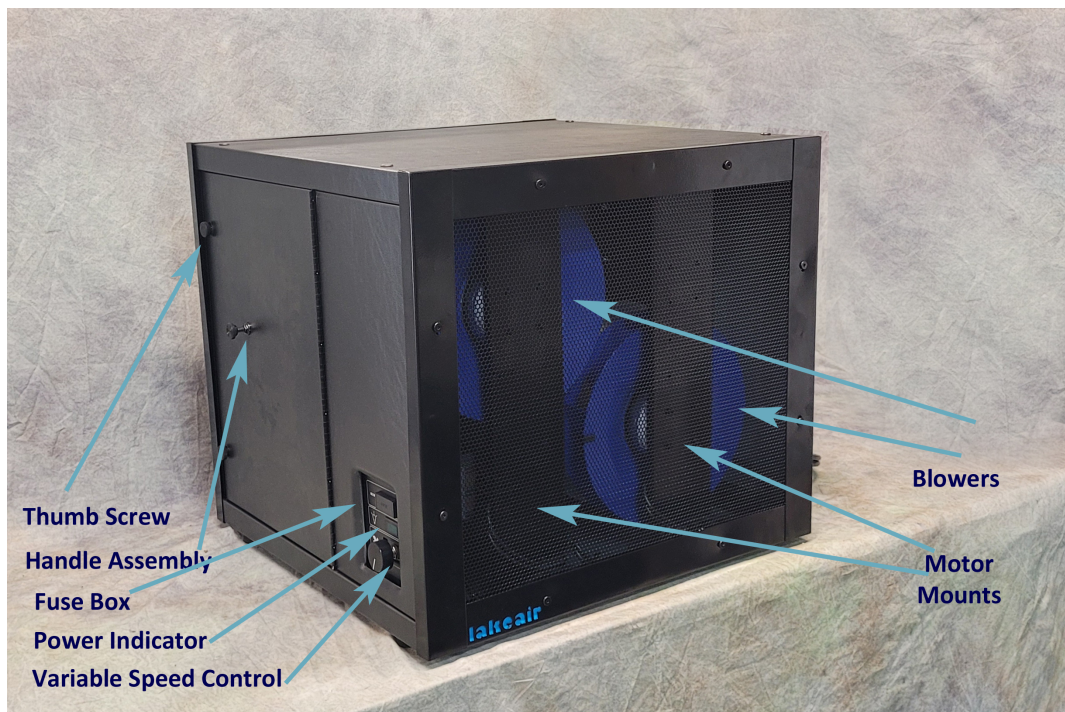
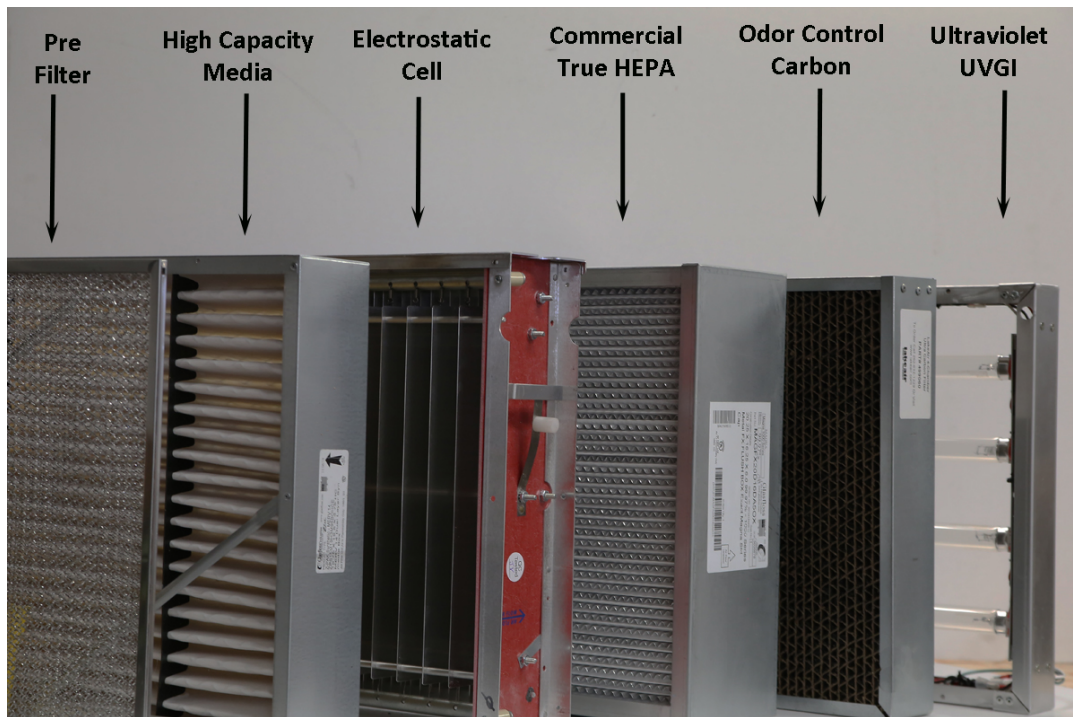
Maintenance

Your LakeAir Air Cleaner is a high quality, precision piece of equipment designed for many years of satisfactory performance. Adhere to a regular maintenance schedule and no problems should occur. This unit should be checked regularly for grease, smoke and dust accumulation. It should be cleaned if found to have a large accumulation of grease, dust and lint. Under regular commercial use this electronic filters should be cleaned every 6-12 weeks. The prefilter, grease filter and electrostatic cell should be washed. This can be done by soaking in a solution of very hot water and a degreaser. They can also be safely cleaned in a commercial or home dishwasher. Be sure the filters have dried before reinserting into the unit.

Under normal conditions the carbon filter should be replaced every 2-4 months. When odors are no longer being removed, it is time to replace the carbon filter. When used in a smoky environment the LA2-RC2 filters should be serviced more often.

The carbon filter is located directly behind the main filter. To remove the carbon filter, put your fingers on the lip of the filter and gently remove the filter with a side-to-side motion. Note: The lip is metal and may be a bit sharp use caution not to cut yourself while removing. In an UVGI unit the carbon filter is incorporated into the UVGI chamber. You should never run the UVGI filter without a carbon filter both in front and back of the UVGI element.

LA2-RC2 Filter Options



Filter Removal and Installation

The pre filter is the first of 3 filters used in the LA2-RC2 models. The pre filter removes large particles from the air stream. It also extends the life of the main filter. The pre filters rating is MERV 2 and its Part# is 490051. The pre filter is mounted closest to the air intake. This filter slides out

Normally the main is next in line moving back from the intake towards the blowers. This filter removes particles that are suspended in the air. This filter is held in snugly but will slide out as well. This filter should be checked regularly for dust and smoke accumulation.

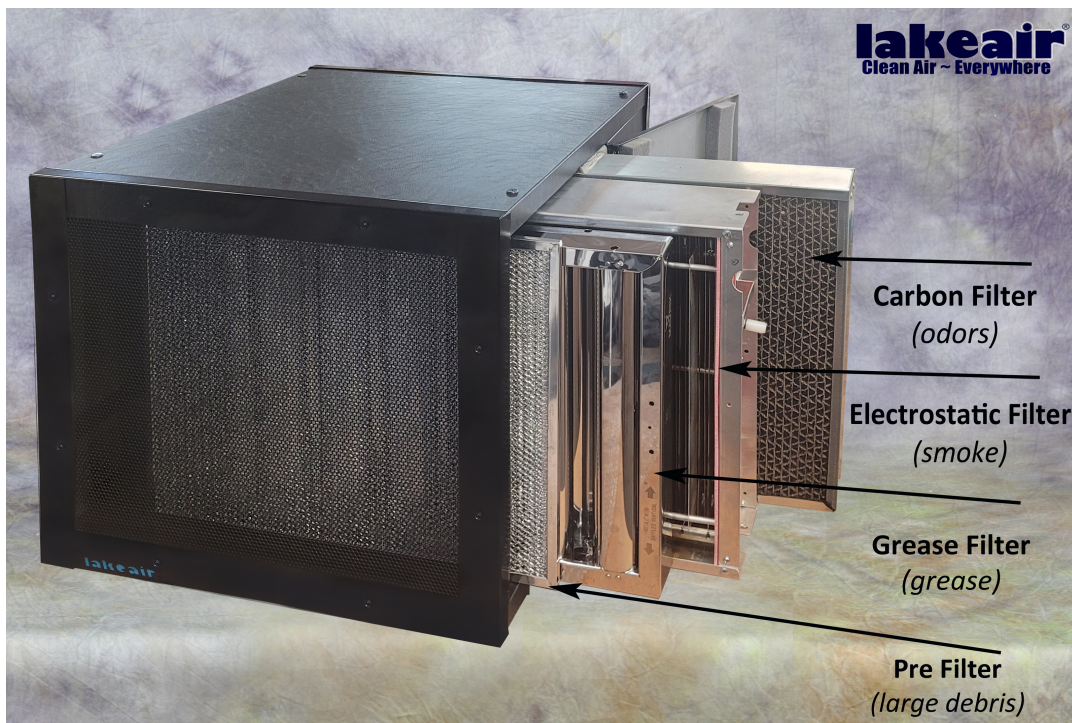


Image depicts LA2-RC2 Kitchen filters as a example

The 3rd filter is the carbon filter. It is located directly behind the main filter. To remove the carbon filter, put your fingers on the lip of the filter and gently remove the filter. Note: The lip is metal and may be a bit sharp use caution not to cut yourself while removing the carbon filter

Electrical Arcing

All electronic air cleaners undergo a process known as “arcing” from time to time. It is a snapping noise that comes from the electronic cell when very large particles enter into collection cell or when the cells are wet or extremely dirty. If an unusual amount of arcing persists, check the collecting cells for broken wires, bent plates, or to see if they are very dirty. If arcing still occurs, check with your service person or dealer.

Constant Arcing

From time to time it is possible to come across a situation where the electrostatic cell arcs continuously. In most case this is a dirty cell. However it is possible that a deposit may build up on a cell plate that is not easily removed by cleaning. In some cases a micro-bur can work itself up from the metal of the cell plate. IF this happens you will need to remove the deposit or bur. This can be done easily by first locating the plate where the deposit has formed. After you have determined where the arcing is occurring, the deposit can be removed with a common emery board. Lightly sand the edge of the cell plate in the area where the arcing is occurring. It may take a couple tries to fully remove the bur. If you would like to view a video on the topic you can find it

https://www.youtube.com/watch?v=a6Hinf_GNHs&t=6s

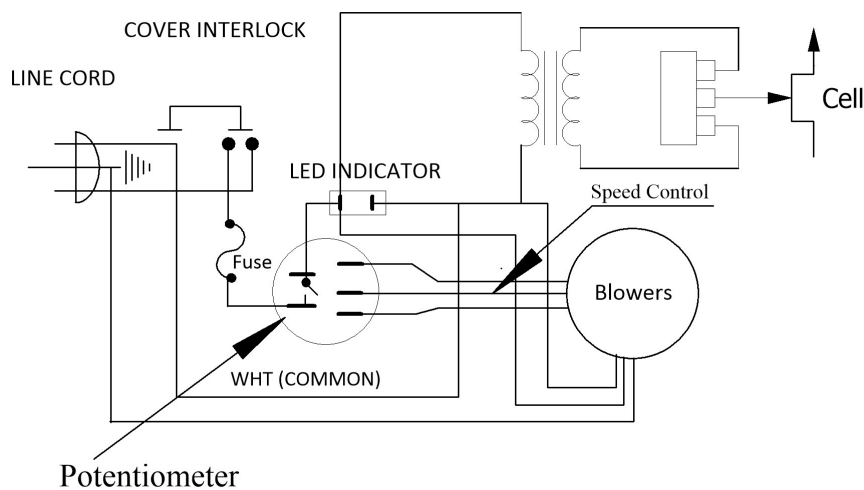
Filter cleaning and replacement recommendations.

<i>Filter</i>	<i>PART #</i>	<i>Replace / Clean</i>
<i>Pre-Filter</i>	<i>499051</i>	<i>Clean every 2-4 months</i>
<i>Grease Filter</i>	<i>490330</i>	<i>Clean Every 1-3 Months</i>
<i>Electrostatic Cell</i>	<i>101213</i>	<i>Clean every 2-4 months</i>
<i>HEPA Filter</i>	<i>499180</i>	<i>Replace every 6 - 12 months</i>
<i>Media Filter</i>	<i>499097</i>	<i>Replace every 4- months</i>
<i>3.0 Carbon Filter</i>	<i>499060</i>	<i>Replace every 4-6 months</i>
<i>4.5 Carbon Filter</i>	<i>499025</i>	<i>Replace every 4-6 months</i>

Specifications

Capacity		200 -1000 CFM
Pre Filter		MERV 2 Alumnum Mesh
Grease Filter		Baffle type 85% Efficient
Electrostatic Cell		97% Efficient to 0.1 micron
Carbon Filter		4 Chamber (2000 grams)
Blower Life		60,000 Hours
Unit Size		22" x 21" x 19 "
Unit Weight		105 Pounds
Shipping Size		26" x 26" x 32"
Power Usage		200 - 400 watts
Power		120v, AC 60hz 3.5 amps
Sound Level		38 - 65 dB(A) @15'
Variable Speed Control		Low - Turbo
Warranty		7 Year Limited

Wiring Diagram



LA2-RC2-Kitchen Wire Diagram

Customer Service

It is very important that our customers receive good support for any issues related to our products. If you have questions or need support it can be found in many ways.

Email:

Email support can be obtained by sending an email to sales@lakeair.com. We try to answer all email support matters within 12 hours. If emails are sent during regular business hours 8:00 AM - 6:00 PM CST replies should be much sooner.

Phone:

Customer Service phone support can be reached at 800-558-9436. Phone support is normally available Monday - Saturday 8:00 AM - 6:00 PM CST.

Website Chat:

website chat support can be reached found on our website at the bottom right of any page. Chat support is normally available Monday - Saturday 8:00 AM - 6:00 PM CST and Sundays 12:00 noon to 6:00 PM CST.

Customer Text Support:

Customer Text Support can be reached at 862-319-1118. Text support is normally available Monday - Saturday 8:00 AM - 6:00 PM CST and Sundays 12:00 noon to 6:00 PM CST.

LakeAir ELECTRONIC AIR CLEANERS 7 YEAR LIMITED WARRANTY

The LakeAir LA2-RC2-Kitchen Air Purifier is warranted by RK Ventures Inc. to the original purchaser to be free from defects in material and workmanship under normal use and service for a period of seven years from the date of purchase. The blowers of the LakeAir MAX Guard is warranted for (1) year from the date of purchase to the original purchaser. A extended blower warranty is available for purchase and extends the warranty to 7 years. LakeAir's liability is to be limited to repairing or replacing such products during the warranty period at its option, providing the product is sent prepaid to RK Ventures, Inc. or an Authorized Service Center and is deemed to be defective in part or portion to the satisfaction of RK Ventures, Inc.

This warranty is in lieu of any other warranty expressed or implied and of all other obligations or liabilities in connection with the sale of the described LakeAir Electronic Air Cleaner. In no case will any claim for consequential damages or labor expenses be allowed. This warranty does not apply to a LakeAir Electronic or any part thereof which has not been operated in accordance with the operating instructions herein contained; where components or other accessories not compatible with the LakeAir Electronic Air Cleaner have been used or attached to it; which has been subject to accident, unauthorized alteration, abuse, damage by flood, fire or acts of nature.

User's Responsibility:

1. To operate and maintain according to instructions.
2. Regularly replace filters and cleaning of the unit including electrostatic filters.
Failure to replace filters or clean the unit will void the warranty.
3. Use product controls in accordance with owner manual and maintain them or warranty will be voided
4. Provide adequate electrical service, within voltage ratings that are indicated on the unit rating plate. Provide electrical protection devices to protect unit from voltage surges.
Failure to provide proper electrical service or safety devices will result in warranty being void.

Damage not covered by Warranty:

1. Damage occurring during transportation or resulting from improper handling is not covered by the warranty.
2. Damage due to accident, alteration or tampering is not covered by the warranty
3. Misapplication of the product or use for purposes other than cleaning ambient air will void all warranties.

