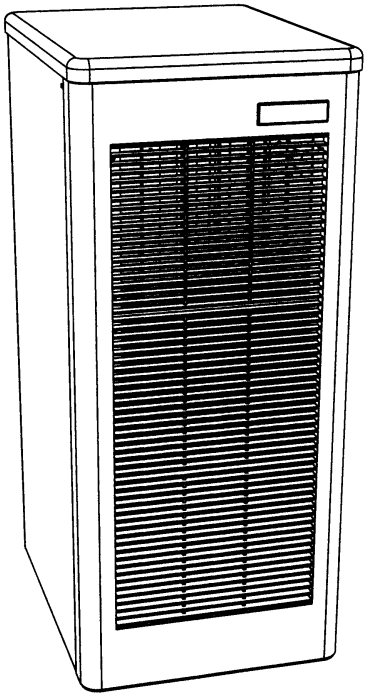
# Five Seasons

# OWNER'S MANUAL

## MODEL 690AIV
## CONSOLE TOWER
## ELECTRONIC AIR CLEANER, IONIZER & VOC FILTER

*IMPORTANT: PLEASE READ MANUAL BEFORE OPERATING UNIT*



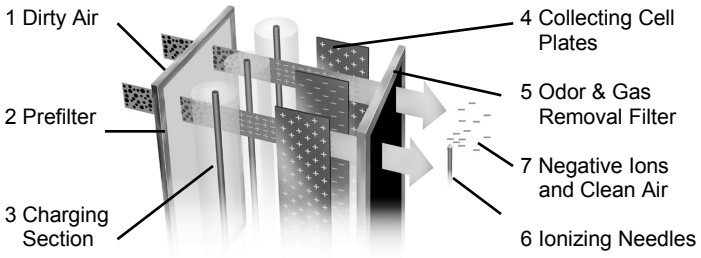
## Features

- Lifetime Electronic Filter never needs replacing — simply washes clean
- Electronically removes dust, mites, pollen, pet dander, mold, bacteria, viruses, tobacco smoke, cooking smoke and grease and more, down to 0.01 micron
- Activated Carbon Odor & Gas (VOC) Removal Filter removes Volatile Organic Compounds emitted from common sources within the home and office
- Dual Negative Ionizer restores the air's natural ion balance
- Quiet 3-Speed Fan is comfortable for room occupants
- Performance Indicator Light shows Air Cleaner is operating properly at a glance
- Ideal for rooms up to 612 ft² (57 m²) for one room air change every 20 minutes

## BENEFITS

- Helps provide relief from allergy, asthma and respiratory illness.
- Helps clear a smokey environment quickly, so everyone can work and relax together.
- Helps reduce the time and money spent cleaning and redecorating. Prevents damaging black dust from staining walls, upholstery and window coverings.
- Helps reduce tobacco, cooking and pet odors.
- Revitalizes the air with healthy negative ions.
- Improves indoor air quality for a fresher, more comfortable environment, year-round.

## HOW IT WORKS




Dirty air is drawn in through the front grill and passes through a 4-stage filtering system.

The Prefilter consists of aluminum mesh and a close knit polymesh. It prevents larger particles, lint and hair from entering the collecting cell.

The next step is a 2-Stage Electrostatic Collecting Cell. The dirt particles are charged with a high positive voltage by a series of fine ionizing wires. The charged particles are drawn through to the collecting plates where the dirt adheres to the grounded plates and remains until the cell is taken out and washed. Removes particles down to 0.01 micron (1/2,540,000 of an inch).

The air is then drawn through an Activated Carbon Odor & Gas VOC (Volatile Organic Compound) Removal Filter to help remove offensive odors and gases. Clean air is then discharged out the back of the Air Cleaner.

Dual Negative Ionizer needles, controlled by a separate switch, are located in the clean air stream. Adding healthy negative ions to the air revitalizes the air similar to that near a waterfall, spring, the ocean, or after a rainfall. Studies have shown that negative ions have a beneficial effect on human biochemistry, both physically and mentally.

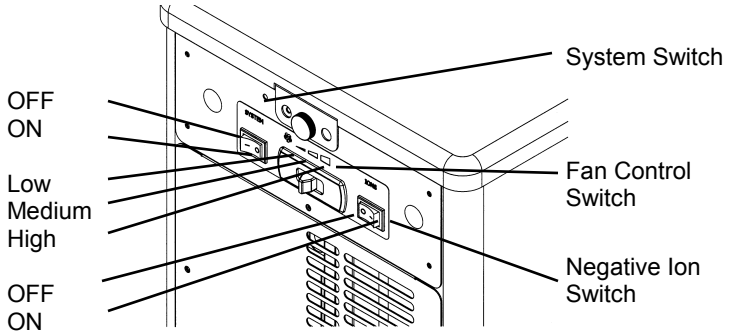
## OPERATING INSTRUCTIONS

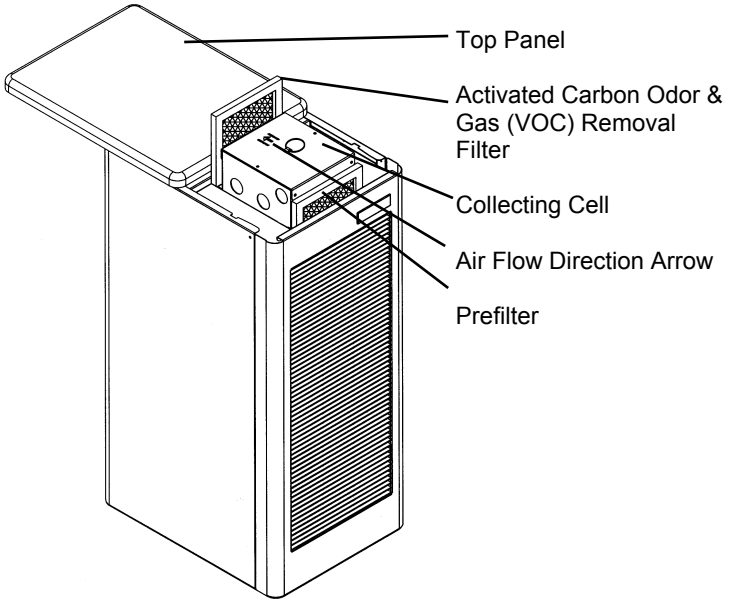
1. Lean Air Cleaner on side panel and pull out of box. If your unit has any signs of damage, immediately contact the store where the Air Cleaner was purchased.
2. Keep the shipping carton and packaging in case the need arises to store or transport the unit.
3. Remove all packaging from the unit. Choose a suitable location to allow unobstructed circulation from the front and back of the unit. If unit has to be placed against a wall, allow at least 6-8 inches (15-20 cm) for circulation.
4. Operate Air Cleaner at voltage shown on back of unit.
5. The controls for the Air Cleaner are located on the rear panel. To turn the Air Cleaner on, push the System Switch to the **ON** position. This controls the power to the Fan Control Switch and to the power board. When the Fan Control Switch is in the extreme left position, the fan is on low; center position is medium; and to the right is high speed. When the System Switch is turned **ON**, the green Performance Indicator Light, located behind the front grill, should be illuminated.

Use the low or medium speed for quiet, continuous or nighttime use. Use the high speed for initial cleaning of heavy concentrations of dirty air (i.e. smoke) or after leaving the room.

6. The negative ions are controlled by a separate switch located to the right of the fan control switch. When the switch is **ON**, the red light will illuminate. **Note: The Negative Ion Emitter will not work without the System Switch being ON.**
7. To access the prefilter, collecting cell or activated carbon filter, turn the system switch off. Undo the thumbscrew located under the switches, on the rear panel, and slide the top panel to the rear of the unit.

You may notice arcing or snapping from the cell. It is normal to hear some arcing when the unit is new or first turned on. Arcing in the cell may also be caused by high humidity (over 80%), after washing, or when a large particle of dirt or hair is caught in the cell. If the arcing is continuous and constant, then refer to the Troubleshooting Chart.



## CLEANING INSTRUCTIONS

The prefilter and collecting cell must be washed on a regular basis for the Air Cleaner to function at its peak efficiency. The frequency of cleaning will vary from one environment to another, therefore the cell should be checked monthly to determine cleaning schedule. On average, the cell should be washed every 2-3 months.

**COLLECTING CELL AND PREFILTER**

1. Turn Air Cleaner **OFF**. Remove prefilter and collecting cell from the Air Cleaner.
2. Rinse prefilter and collecting cell, and spray completely with DAX Detergent (or non-chlorine, non-corrosive, non-abrasive, non-ammonia, liquid household detergent). Let stand for 5 minutes. Rinse well with hot water (120° F / 49°C maximum). Repeat process 3 times.
3. If dirt remains, let cell soak in a solution of DAX Detergent and hot water for 30 minutes.
4. For drying, place the cell on a 45° angle on one end, with the arrow pointing sideways, and let stand for 10-24 hours. A hair dryer may be used to speed up drying time. Make sure the cell is completely dry before reinserting back into Air Cleaner. The cell is inserted with the arrow pointing back toward the fan blower.
5. If arcing or snapping occurs or the lights do not come on when the cell is placed back in the unit and turned on, then remove the cell and allow to dry longer.

**ODOR & GAS (VOC) REMOVAL FILTER**

1. The Activated Carbon Odor & Gas (VOC) Removal Filter must be replaced at regular intervals if odor removal is desired (approximately every 3-6 months). **ODOR REMOVAL FILTERS ARE NOT WASHABLE.**

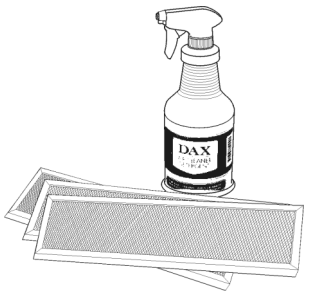
**CABINET**

1. Turn Air Cleaner **OFF**.
2. A soft, damp, lint-free cloth may be used to remove dirt and fingerprints from painted surfaces and grills. **NEVER USE AN ABRASIVE CLEANER ON THE CABINET.**

**WARNING**

- **DO NOT WASH COLLECTING CELL IN DISHWASHER**.
- Never use any object to clean between the cell plates as this may cause damage to the plates or ionizing wires.
- Never place the cell in an oven to dry.
- The edges of the cell may be sharp — handle with care.

DAX Detergent, No. 9900, and the Activated Carbon Odor & Gas (VOC) Removal Filter, No. 69-0810, are available from your retail outlet.




## TROUBLESHOOTING CHART

| PROBLEM | CAUSE |
|---|---|
| Fan does not operate<br>Both Operation Lights off | • Unit not plugged in<br>• Cell access door not closed tightly<br>• System switch not **ON** |
| Green Performance Light on<br>Red Ion Light off | • Negative Ion switch not in **ON** position |
| Fan does not operate<br>Green Performance Light on | • Speed selector switch not positioned correctly<br>• Fan motor malfunction |
| Fan operating<br>Both Operation Lights off | • Cell wet from washing<br>• Short in cell (see below) |
| Cell arcing excessively | • Cell wet from washing<br>• Cell plate(s) bent<br>• Cell dirty or large lint ball/hair caught in cell<br>• Broken ionizing wire |
| Cell does not go in far enough to allow top cover to close | • Cell is inserted wrong. Cell should be inserted with arrow pointing back toward fan blower |

The two Operation Lights, located behind the front grill are also used as the high voltage fault indicator. If the fan is operating, and the lights do not come on, then there is a problem in the high voltage circuit. To determine the problem, turn the Air Cleaner **OFF** and remove the collecting cell. Close the top cover and replace the thumbscrew, then turn the Air Cleaner back **ON**. If the lights come back on, the problem lies in the collecting cell. Check the cell for wetness from washing or look for a broken ionizing wire(s) or bent cell plate(s).

If the lights do not come on, the problem is with the power board or the Operation Light(s). If you are unable to correct any of the above problems, call 1-800-267-8305.

## TECHNICAL DATA

| | | |
|---|---|---|
| Dimensions<br>Width<br>Depth<br>Height | <br>10.0 in<br>13.5 in<br>24.5 in | <br>25.4 cm<br>34.3 cm<br>62.2 cm |
| Weight | 32.0 lbs | 14.5 kg |
| Input Voltage | 120 V 60 Hz<br>220-240 V 50 Hz | 120 V 60 Hz<br>220-240 V 50 Hz |
| Power Consumption (maximum) | 104 Watts | |
| Air Flow<br>High<br>Medium<br>Low | <br>245 cfm<br>175 cfm<br>150 cfm | <br>413 $m^3$/hr<br>297 $m^3$/hr<br>255 $m^3$/hr |
| Cell Output Voltage | 6200 VDC @ < 1 mA | |
| Collecting Cell Surface | 1191 $in^2$ | 7683 $cm^2$ |
| Negative Ionizer | -5000 VDC @ <.1 mA | |
| Negative Ion Output | 2 x 327.7 K/$in^3$ | 2 x 20 K/$cm^3$ |
| Ideal for rooms up to: (for 1 room air change every 20 minutes) | 612 $ft^2$ | 57.0 $m^2$ |

# Five Seasons

## IMPORTANT SAFEGUARDS

Safety points you should know about your Electronic Air Cleaner and Ionizer.

**Caution:**
**** Read Owner's Manual and safeguards before using**
**** Save Owner's Manual for later use**
**** Follow all warnings and instructions marked on Air Cleaner**

**FOR YOUR PERSONAL SAFETY**

1. The Air Cleaner is equipped with a grounded plug. Do not defeat the purpose of this plug by removing the grounding pin, as this may result in an electrical shock or create an unsafe condition.
2. When the power cord or plug is damaged or frayed, unplug the Air Cleaner from the wall outlet and refer servicing to qualified service personnel.
3. Do not overload wall outlets and extension cords, as this can result in fire or electric shock.
4. Do not allow anything to rest on or roll over the power cord, and do not place the unit where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
5. Do not attempt to service the Air Cleaner yourself as opening or removing switch cover may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.
6. Never push objects of any kind into the Air Cleaner through cabinet slots, as they may touch dangerous voltage points, or short out parts that could result in a fire or electric shock.
7. If the Air Cleaner has been dropped or the cabinet has been damaged, unplug the unit from the wall outlet and refer servicing to qualified service personnel.
8. Unplug the Air Cleaner from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners on cabinet. Use a damp, lint-free cloth for cleaning, except when cleaning the cell.
9. Do not use the Air Cleaner near water, i.e. near a bathtub, sink, laundry tub, in a wet basement, in the rain or near a swimming pool, etc.

   If liquid has been spilled into the Air Cleaner, unplug the unit from the wall outlet and refer servicing to qualified service personnel.
10. Do not use the Air Cleaner near open fire or flame, or sources of heat i.e. fireplaces, wood burning stoves, kerosene heaters, stove tops, ovens, etc.
11. Do not use the Air Cleaner on soft surfaces i.e. beds, sofas.
12. Do not use the Air Cleaner when oxygen is being used or when combustible gases are present.
13. The Air Cleaner has slots or openings in the cabinet for ventilation purposes, to provide reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered.
14. The Air Cleaner should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply at your home, consult your local power company.
15. It is normal for the Air Cleaner to make occasional snapping or popping sounds, particularly when being turned on after washing. If the snapping or popping is continuous or frequent, unplug the unit and call 1-800-267-8305.
16. If the Air Cleaner does not operate normally by following the operating instructions, unplug the unit from the wall outlet and refer servicing to qualified service personnel.

**LIMITED ONE YEAR WARRANTY**

Your Electronic Air Cleaner is guaranteed for one (1) full year from the date of original purchase, against electrical and mechanical defects in material and workmanship, under normal use and maintenance, which will be repaired or replaced without charge, upon inspection by an authorized service center. The warranty does not include the Prefilter or Carbon Filter.

This guarantee is in lieu of any other warranty, either expressed or implied.

FIVE SEASONS COMFORT LIMITED will not be responsible for:
1. Normal maintenance including cleaning or replacement of filters, as outlined in the Owner's Manual.
2. Damage or repairs needed as a consequence of any misuse, negligent handling, improper servicing, unauthorized alteration, improper operations or use on voltage other than that stamped on the Air Cleaner.
3. Any personal injury, property damage, or any incidental or consequential damages of any kind, resulting from defects, malfunctions, misuse, or alteration of the product.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive atmosphere, or other conditions beyond the control of Five Seasons Comfort Limited.
5. Parts, including filters not supplied or designated by Five Seasons Comfort Limited.

If warranty service is required, send the Air Cleaner **prepaid** to your dealer or nearest authorized service center, with a **proof of purchase.** The original carton and packaging must be used. If not, and if goods arrive damaged due to improper packaging, warranty will be void. Please enclose a note explaining the nature of your difficulty.


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