



BLS12K

OWNER'S MANUAL

Introduction (Thanks / Warnings / Records)	3
Features / Benefits	4
Controls / Diagrams	5
Initial Setup (Placement / Settings)	7
Operations	8
Maintenance	8
LCD Reminders	9
Disassembly / Assembly	11
Cleaning	11
Troubleshooting	12
Consumer Information	13
Specifications	13
Warranty Information	13

THANKS

Welcome to a better, healthier environment!

The BLS12K is one of the most advanced air purification systems on the market today. Incorporating photo catalytic oxidation technology, high level negative ionization, safe levels of ozone, and electrostatic filtration, the BLS12K reduces particles and inactivates microbes providing a cleaner, healthier environment for you and your family.

The BLS12K is designed to provide years of trouble-free service when properly maintained. This manual will guide you through proper operation of the purifier as well as maintenance procedures. When properly cared for, some parts of the unit will need replaced periodically. Replacement parts can be obtained from your authorized distributor or directly from Best Living Systems, LLC (www.BestLivingSystems.com)

Thank you for purchasing the BLS12K by Best Living Systems.

WARNINGS



WARNING: Never operate the unit near a heat source, open flame, or flammable/combustable fluids.



WARNING: Do not operate the unit unless the following are properly installed: PCO CELL, PURIFICATION PLATE, REAR FILTER ASSEMBLIES and the REAR COVER.



WARNING: Eye damage may result from directly viewing the light produced by the lamp inside of this unit. Eye damage occurs after 20 minutes of continuous exposure one inch from grill.



CAUTION: Do not use AWAY MODE in occupied spaces. Short term exposure to ozone levels above .05 ppm can cause temporary adverse reactions.



CAUTION: The unit should be powered off and the POWER CORD should be disconnected whenever cleaning/disassembling/reassembling/servicing.

RECORDS

PURCHASE DATE: _____

MODEL NUMBER: _____

SERIAL NUMBER: _____

DISTRIBUTOR NAME: _____

DISTRIBUTOR PHONE: _____



Best Living Systems

The BLS12K is one of the most advanced and most versatile whole house air purification systems on the market today.

Using four advanced technologies, the BLS12K helps to eliminate odors, smoke, pollen, dust, bacteria, mold, pet dander, viruses, and much more. Noticeable pollution is eliminated in as little as 15 minutes, and the most difficult pollution in as few as 24 hours.

Unlike other air purifiers that have only one or two ways of eliminating pollution, the GT1500 has four advanced technologies to destroy pollution from the air, embedded in walls, ceilings, floors, carpets, furniture, clothing, on countertops and other surfaces. These technologies help to sanitize everything in the house and reduces or eliminates all odors, including cigarette smoke, mildew, cooking odors, and more.

The advanced variable frequency drive fan system of the BLS12K runs quietly. In addition, the BLS12K is very low maintenance and requires no filter replacement. You simply clean the electrostatic honeycomb and mesh filter with running water! The BLS12K is ideal for any room in your home where airborne and surface pollution may be present.

FOUR ADVANCED TECHNOLOGIES

Advanced Photo Catalytic Oxidation (PCO)

Cell: The PCO technology in the BLS12K not only destroys biological contaminants traveling through the cell, but it produces a purifying plasma which breaks down odors, mold, bacteria and viruses throughout the home or office. Photo Catalytic Oxidation reactors have been proven to reduce dangerous pathogens by over 99% in 24 hours or less. The process is molecular disassociation, which doesn't just cover up the source, it actually breaks the molecule down. The result at the end of the breakdown process is Carbon Dioxide and Water Vapor.

Needlepoint Ionization: The BLS12K generates a continuous stream of millions of negative ions that circulate throughout the home. These ions charge particles of dust, dander, bacteria and viruses; 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 homes furnace filter or just fall to the floor to be vacuumed up. Unlike HEPA filters that can filter out particles of .5 microns or larger, the ionizer in the BLS12K can reduce ultra-fine particles, even nano-particles, that are much more dangerous than the larger particles you can see. This means your family breathes easier with less particles in the breathing space, less exposure to bacteria, mold and virus particles as well.

Scalable Purification: With purification plate turned on, activated oxygen is generated to assist in breaking down mold, bacteria, and other biological contaminants which cause odors. By setting the purifier based upon the area to be treated, just the right amount of purification is produced to keep the home fresh and clean. For faster cleanup an "Away Mode" feature which has an auto-shutoff programmable timer allows for maximum output to be used when the room or home is unoccupied.



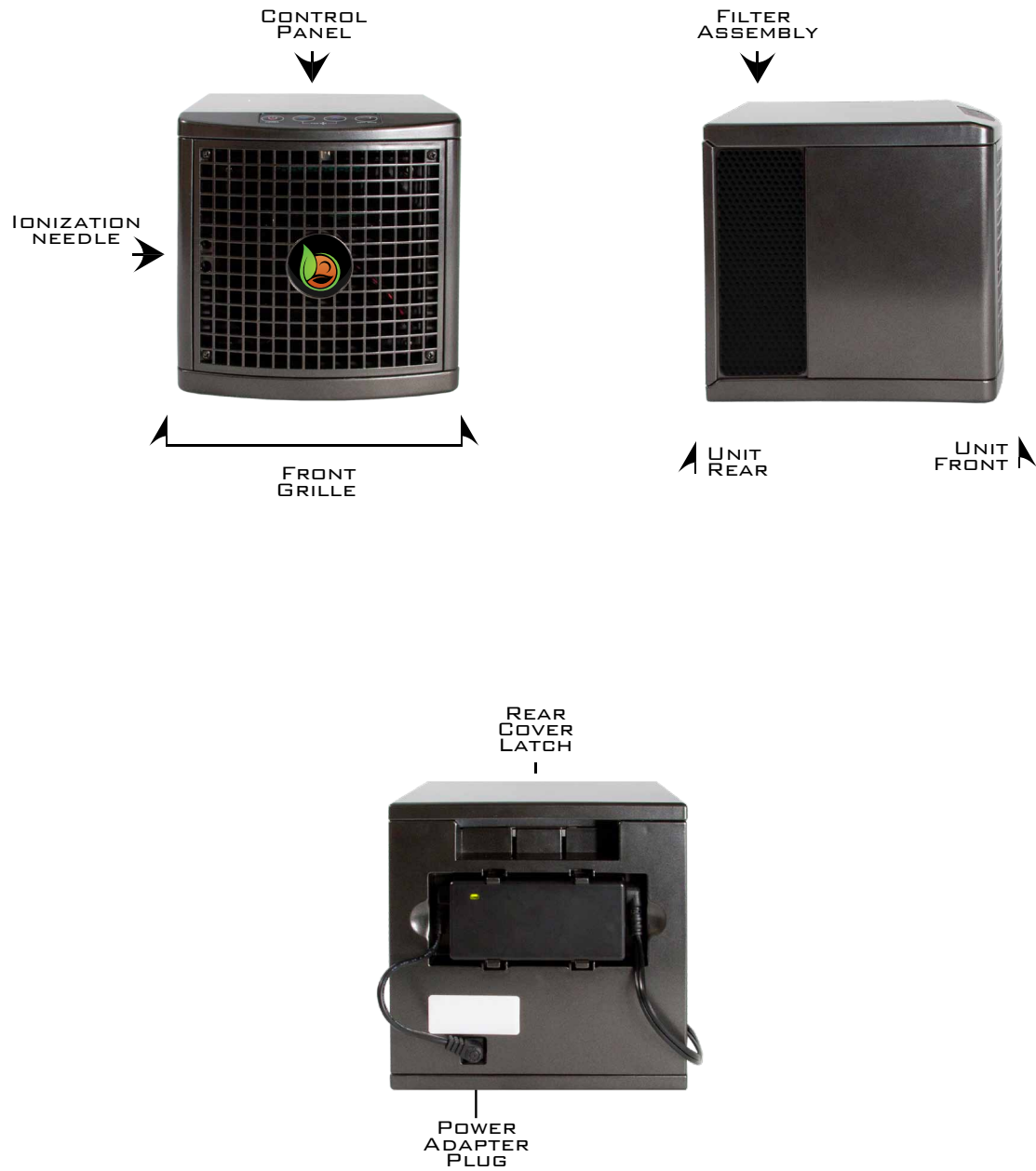
CAUTION: Do not use AWAY MODE in occupied spaces. Short term exposure to ozone levels above .05 ppm can cause temporary adverse reactions.

Electrostatic Filtration: An advanced electrostatic filter is included with the BLS12K to help keep the purifier clean while at the same time filter out particles which clump together thanks to the needlepoint ionization. Unlike expensive HEPA filters, the electrostatic filter is washable and can be used over and over again.

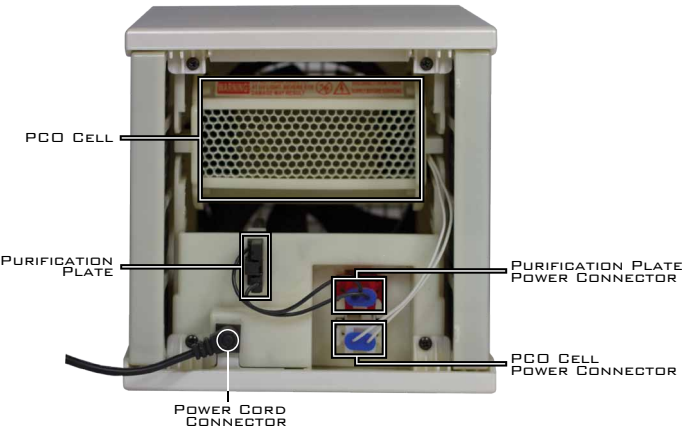
ADDITIONAL INFORMATION

Model: Whole House
Maximum Coverage Area:1500 sq. ft.
Warranty:..... One Year Warranty

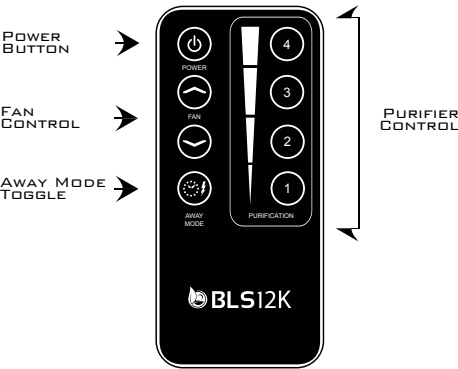
UNIT EXTERIOR



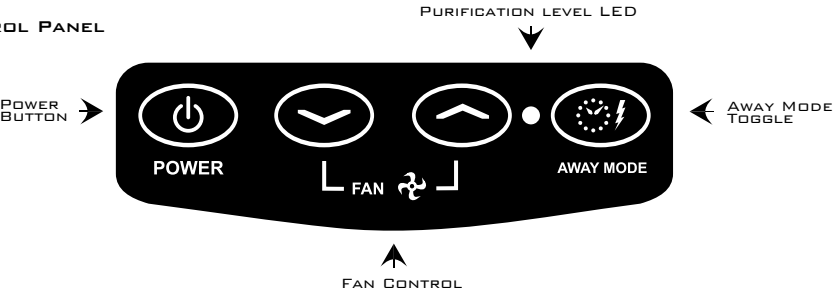
UNIT REAR FILTER REMOVED



REMOTE



CONTROL PANEL



INITIAL SETUP

IDEAL PLACEMENT

When selecting a place for the unit within the environment there are some things to keep in mind. Find a location in the room(s) as far away from the HVAC air return duct as possible, so that the purification produced by the unit is optimally circulated. Place the unit on top of a bookshelf, shelf, or mounting bracket as high as possible leaving twelve to twenty-four inches between the unit and the ceiling. Make sure that there is as much space as possible in front of the unit. Never place an operating unit on the floor.

INITIAL SETTINGS

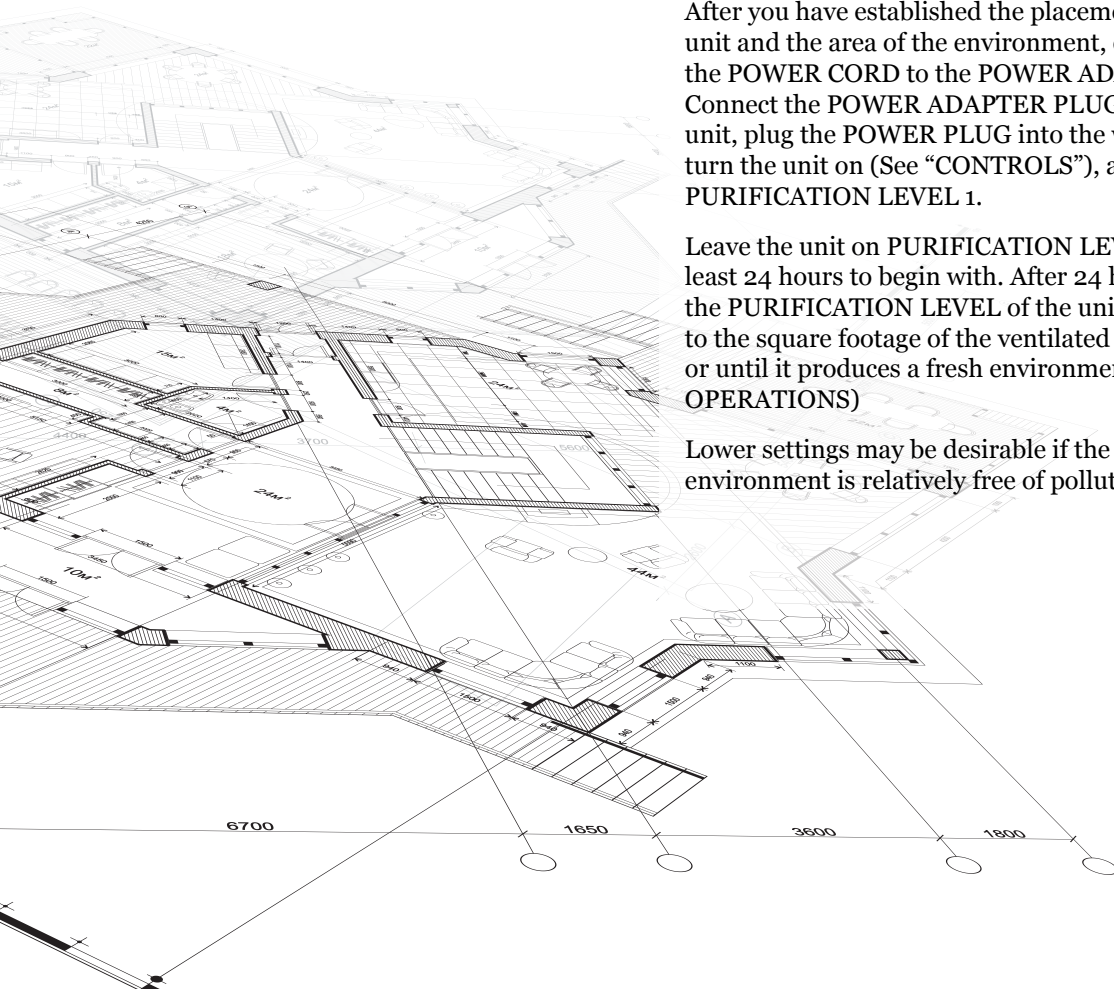
Before using the unit you will need to determine the area (square footage) of the environment. Take into account all rooms which have doors that normally remain open to the environment as the purification that the unit produces does not flow readily through closed doors. The unit can cover a maximum of 1500 square feet.

For example: Suppose you have a 1500 square foot house. The living room is attached to the kitchen, three bedrooms, and a laundry room. The kitchen and three bedroom 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 500 square feet. The area of your environment would be 1000 square feet.

After you have established the placement of your unit and the area of the environment, connect the POWER CORD to the POWER ADAPTER. Connect the POWER ADAPTER PLUG to the unit, plug the POWER PLUG into the wall outlet, turn the unit on (See "CONTROLS"), and set it to PURIFICATION LEVEL 1.

Leave the unit on PURIFICATION LEVEL 1 for at least 24 hours to begin with. After 24 hours, set the PURIFICATION LEVEL of the unit according to the square footage of the ventilated space or until it produces a fresh environment. (See OPERATIONS)

Lower settings may be desirable if the environment is relatively free of pollutants.



TURNING THE UNIT ON

Press the POWER BUTTON on the CONTROL PANEL or REMOTE to turn the unit on. Unit will initially be set to "PURIFICATION LEVEL 1"

CONTROLLING FAN SPEED

Fan speed can be controlled on both the machine's CONTROL PANEL as well as with the REMOTE.

Three speeds are available (Low, Medium, High) and are adjusted with the FAN UP/DOWN buttons.

PURIFICATION LEVEL

Purification level is controlled on the REMOTE and adjusts the frequency of Ozone/Activated Oxygen distribution. Four levels are available ranging from 1-4. An LED on the control panel will relate to the current level by varying colors.

(1) Also known as NORMAL MODE is the standard mode which uses only PCO Technology and is suitable for areas from 0-250ft². The LED on the control panel will be OFF when set at level 1.

(2) Also known as LOW, is for areas of 250-500ft². The LED on the control panel will be GREEN when set to level 2.

(3) Also known as MEDIUM, is for areas of 500-1000ft². The LED on the control panel will be YELLOW when set to level 3.

(4) Also known as HIGH, is for areas of 1000-1500ft². The LED on the control panel will be RED when set to level 4.



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

AWAY MODE

Press the AWAY MODE button and verify that the button is lit on the CONTROL PANEL.



CAUTION: Do not use AWAY MODE in occupied spaces. Short term exposure to ozone levels above .05 ppm can cause temporary adverse reactions.

PCO CELL REPLACEMENT

The PCO CELL does wear out and should be replaced at least once per year of constant use.

PURIFICATION PLATE REPLACEMENT

The PURIFICATION PLATE does not wear out as often and would need to be replaced every 2-3 years of constant use, perhaps earlier depending on how harsh your environment is.

PURIFICATION PLATE



PCO CELL



DISASSEMBLY:

You will need a #1 PHILLIPS SCREWDRIVER.



WARNING! Do not operate the unit unless the following are properly installed: PCO CELL, PURIFICATION PLATE, REAR FILTER ASSEMBLY (with all three pieces in place), and the REAR COVER.



CAUTION! The unit should be powered off and the POWER CORD should be disconnected whenever cleaning/disassembling/reassembling/servicing.

1. Turn the unit off. (See “CONTROLS”)
2. **Removing The Power Cord:**
 - (a) Unplug POWER CORD from wall outlet.
 - (b) Remove POWER ADAPTER PLUG from rear of unit.
3. Clean the exterior of the unit if necessary (See “CLEANING: UNIT EXTERIOR”).
4. **Removing The Rear Cover:**
 - (a) Begin by unplugging the POWER ADAPTER PLUG from the back of the unit.
 - (b) Press down on the tab above the POWER ADAPTER and pull back on the REAR COVER.
5. **Removing The Filter Assembly:**
 - (a) After removing the REAR COVER slide each of the FILTER ASSEMBLIES straight out.
6. **Removing The Purification Plate:**
 - (a) Locate the PURIFICATION PLATE CONNECTOR on the right rear of the unit. Squeeze the tabs on the left and right and gently pull free.
 - (b) Grasp the PURIFICATION PLATE pressing both latches towards the middle and gently pull the PURIFICATION PLATE out of the grooves on the sides. Clean if necessary (See “CLEANING: PURIFICATION PLATE”) and set the PURIFICATION PLATE aside.
7. **Removing The PCO Cell:**
 - (a) Locate the PCO CELL POWER CONNECTOR on the right of the rear of the unit. Squeeze the tabs on the left and right of the PCO CELL POWER CONNECTOR and gently pull free.
 - (b) Gently slide the PCO CELL out of the unit. Clean if necessary (See “CLEANING: PCO CELL”) and set the PCO Cell aside.
8. Clean the interior of the unit if necessary (See “CLEANING: UNIT INTERIOR”).
9. **Removing The Front Grille:**
 - (a) Locate the four FRONT GRILLE SCREWS in the four corners of the FRONT GRILLE. Using your SCREWDRIVER, carefully remove the four FRONT GRILLE SCREWS. Place the FRONT GRILLE SCREWS where you will find them easily during reassembly.
 - (b) Remove the FRONT GRILLE carefully to ensure that the IONIZATION NEEDLE (in the left center of the front of the unit) is not damaged. Clean the FRONT GRILLE if necessary (using compressed air, vacuum cleaner, a damp cloth, or warm soapy water) and set the FRONT GRILLE aside. Clean the IONIZATION NEEDLE if necessary (See “CLEANING: IONIZATION NEEDLE”).



ASSEMBLY

You will need a #1 PHILLIPS SCREWDRIVER.



WARNING! Do not operate the unit unless the following are properly installed: PCO CELL, PURIFICATION PLATE, REAR FILTER ASSEMBLY (with all three pieces in place), and the REAR COVER.



CAUTION! The unit should be powered off and the POWER CORD should be disconnected whenever cleaning/disassembling/reassembling/servicing.

1. Installing the FRONT GRILLE:

- (a) Gently put the FRONT GRILLE in place on the front of the unit, being careful not to damage the IONIZATION NEEDLE at the left center of the front of the unit.
- (b) Insert the four FRONT GRILLE SCREWS one at a time until they are in place, but not tight. After all four FRONT GRILLE SCREWS are in place tighten them carefully.

2. Installing the PCO CELL:

- (a) Gently slide the PCO CELL - warning side facing towards you - into its slot and push until it locks into place.
- (b) Align the PCO CELL POWER CONNECTOR to the PCO CELL POWER CONNECTOR OUTLET and insert gently until the tabs at the left and right of the PCO CELL POWER CONNECTOR lock into place.

3. Installing The PURIFICATION PLATE:

- (a) Slide the PURIFICATION PLATE into its slot until it snaps into place.
- (b) Align the PURIFICATION PLATE POWER CONNECTOR to the PURIFICATION PLATE POWER CONNECTOR OUTLET and insert gently until the tabs at the left and right lock into place.

4. Installing the FILTER ASSEMBLY:

- (a) Place each of the FILTER ASSEMBLIES into their slots on the sides with the solid framed side facing out.

5. Installing the REAR COVER:

- (a) Place the REAR COVER into place with the hinges along the bottom in between the hinges of the machine.
- (b) Push the REAR COVER into place until the tab at the top snaps into place.

6. Installing the POWER CORD:

- (a) Insert the POWER ADAPTER PLUG into the rear of the unit.
- (b) Ensure the POWER CORD is properly connected to the POWER ADAPTER
- (b) Insert the POWER PLUG into a wall outlet.

7. Turn the unit ON. Ensure that the unit's settings are adjusted to suit the environment (See "OPERATIONS").



WARNING! Do not operate the unit unless the following are properly installed: PCO CELL, PURIFICATION PLATE, REAR FILTER ASSEMBLY (with all three pieces in place), and the REAR COVER.



CAUTION! The unit should be powered off and the POWER CORD should be disconnected whenever cleaning/disassembling/reassembling/servicing.

UNIT EXTERIOR

Wipe down the exterior with a damp cloth or use compressed air or a vacuum cleaner to remove dust. A non-abrasive cleaner may be used on the surfaces of the exterior, but do not let non-alcohol based cleaners come in contact with the IONIZATION NEEDLE at the left center of the FRONT GRILLE.

FILTER ASSEMBLY

Clean water or compressed air may be passed through the filter assemblies or through the individual parts of the filters when they are disassembled. To disassemble the FILTER ASSEMBLIES grasp the assemblies by the sides of the rim around the filter and carefully separate the rim from the FILTER ASSEMBLY. The three filters (mesh, foam, and honeycomb) can then be removed and cleaned separately. If using water you must allow the filters to dry separately before reassembly. When reassembling, the HONEYCOMB FILTER goes in first, then the FOAM FILTER, and finally the thin MESH FILTER. Then simply reattach the rim to the FILTER ASSEMBLY.

IONIZATION NEEDLE

Using a cotton applicator (Q-Tip), apply a small amount of clear alcohol based cleaner (or rubbing alcohol) to the IONIZATION NEEDLE. You may also use compressed air to blow off any dust that may accumulate near the IONIZATION NEEDLE.

UNIT INTERIOR

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

PCO CELL

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

PURIFICATION PLATE

Using a 50/50 mix of warm water and clear ammonia, soak the PURIFICATION PLATE from 1-8 hours. Using a soft-bristle brush, scrub the metal center. Rinse thoroughly and allow to dry completely before reinstalling.





WARNING! Do not operate the unit unless the following are properly installed: PCO CELL, PURIFICATION PLATE, REAR FILTER ASSEMBLY (with all three pieces in place), and the REAR COVER.



CAUTION! The unit should be powered off and the POWER CORD should be disconnected whenever cleaning/disassembling/reassembling/servicing.

Unit Fails to Turn On

1. Verify that the POWER PLUG is plugged into an operational wall outlet.
2. Ensure that the POWER CORD is properly connected to the POWER ADAPTER
3. Ensure that the POWER ADAPTER PLUG is fully seated in the receptacle on the back of the unit.
4. Verify the POWER BUTTON has been activated on the CONTROL PANEL.
5. If POWER BUTTON on the CONTROL PANEL fails, use the POWER BUTTON on the REMOTE CONTROL. If the unit activates when using the POWER BUTTON on the REMOTE CONTROL but not the CONTROL PANEL the CONTROL PANEL is inoperational. Contact your distributor or Best Living Systems, LLC (www.BestLivingSystems.com).

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:”).
2. Operating the purifier in a darkened room, look through the FRONT GRILLE at the PURIFICATION PLATE. If the PURIFICATION PLATE is operating properly, it will produce a dim purple glow.
3. If the PURIFICATION PLATE still fails to properly operate, you will need to replace it. Contact your distributor or Best Living Systems, LLC (www.BestLivingSystems.com).

The Purification Plate Generates an Electrical Arc, Arcing Noise, or Burning Odor

The PURIFICATION PLATE is damaged and must be replaced.

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”).
2. If the PCO CELL still fails to properly operate, you will need to replace it. Contact your distributor or Best Living Systems, LLC (www.BestLivingSystems.com).

Ionization Needle Creates an Electrical Arc

The IONIZATION NEEDLE needs cleaned (See “CLEANING: IONIZATION NEEDLE”). Be sure to complete all of the cleaning procedures described in “CLEANING” every 30 days of operation.

Fan Does Not Operate Properly

1. Try adjusting the fan speed using the CONTROL PANEL or REMOTE CONTROL
2. Remove the FRONT GRILLE (See “DISASSEMBLY/ASSEMBLY”) and ensure there are no obstructions to the movement of the FAN. Clean it thoroughly and also clean the mount that it sits on.
3. If FAN continues to operate improperly or not at all, contact your distributor or Best Living Systems, LLC (www.BestLivingSystems.com).

CONSUMER INFORMATION

Best Living Systems declines all responsibility for all damages arising from improper use of the unit or in case of tampering with the unit.

SPECIFICATIONS**Unit**

- Size: 6 3/4" high x 6 1/2" wide x 7" deep
- Weight: 3 lb.
- Coverage: Up to 1500ft² (139m²) *

Power Cord

- Fuyuang Switching Power Supply
- Model: FY 1503000
- Input: 100-240VAC 50/60Hz 2.5A
- Output: 15VDC 3A
- See the power supply label for certifications and warnings.

PCO Cell

- Normal Mode Output: < 0.02 ppm ozone (ambient room concentration)

Purification Plate

- High Mode Output: 25-360mg ozone per hour

Ionization Needle

- 6 KV DC Needle Ion Generator

* Depending on variables such as the severity and frequency of pollution, flow of air in the environment, humidity, and temperature.

LIMITED WARRANTY

Your BLS12K Air Purifier is warranted to be free from all defects in material and workmanship in normal household use for a period of (1) year from date of purchase. The warranty is granted only to the original purchaser and members of his or her immediate household. The warranty is subject to the following provisions.

This warranty does not cover parts of the Air Purifier that require replacement under normal use. This includes the purifier plate and rear filter assemblies. Although the PCO cell requires periodic replacement, the cell is warranted for the same 1 year period as the purifier. Any damages or malfunctions caused by negligence, abuse, or use not in accordance with the Owner's Manual are not covered by this warranty. Likewise, any defects or damages caused by unauthorized service or the use of other than Genuine Best Living Systems parts are not covered.

Best Living Systems will, at its option, repair or replace a defective Air Purifier or part(s) for the Air Purifier that is covered by this warranty. As a matter of warranty policy, Best Living Systems will not refund the customer's purchase price.

To register your warranty, please visit www.GreenTechEnv.com/warranty or fill out and return the enclosed warranty registration card.

To obtain warranty service you must return the defective Air Purifier or Air Purifier parts along with proof of purchase to the Best Living Systems Authorized Warranty Station. All transportation charges on parts, or units, submitted under this Warranty shall be borne by purchaser. Unless this Warranty is expressly renewed or extended by Best Living Systems, any repaired or replaced part of unit shall be warranted to the original purchaser only for the length of the unexpired portion of the original warranty. For the location of the nearest Best Living Systems Authorized Warranty Station or for service information in the United States or Canada, please visit us online at: www.GreenTechEnv.com/service

Further Limitations And Exclusions Are As Follows

Any warranty that may be implied in connection with your purchase or use of the Air Purifier, including any warranty of merchantability or any warranty for Fitness For A Particular Purpose is limited to the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Your relief for the breach of this warranty is limited to the relief expressly provided above. In no event shall Best Living Systems be liable for any consequential or incidental damages you may incur in connection with your purchase or use of the Air Purifier. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Registration

Please register your new Best Living Systems Air Purification product within 10 days of purchase by visiting www.GreenTechEnv.com/warranty or fill out and return the enclosed warranty registration card. Registering your new Best Living Systems product entitles you to the most up-to-date Best Living Systems product warranty and promotion information.

**Best Living Systems**



CERTIFIED BY NORMI™ WHEN USED TO QUALIFY FOR THE NORMI™ CERTIFICATE OF SANITIZATION

MANUFACTURED TO BEST LIVING SYSTEMS SPECIFICATIONS BY:

