



**KA0700
KA0705**

KleanAir 700

Airborne Contaminant Purifier

OPERATIONS AND MAINTENANCE



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If you have any questions, please contact us:

BIOKLEAN
254 Welsh Pool Rd
Exton, PA 19341
USA

www.biokleanair.com

Toll Free 866 563-7800

Telephone: +1 610 363-7800

Fax +1 610 935-1945

Email: Sales@biokleanair.com

Refer All Communications to the Nearest
BioKlean Office or Distributor.

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OPERATION AND MAINTENANCE MANUAL FOR

KA0700 / KA0705

NOTICE

FOR PROFESSIONAL USE ONLY



WARNING



IMPORTANT SAFETY INFORMATION ENCLOSED.

READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING THIS PRODUCT.

IT IS YOUR RESPONSIBILITY TO MAKE THIS SAFETY INFORMATION AVAILABLE TO OTHERS THAT WILL OPERATE THIS PRODUCT.

FAILURE TO OBSERVE THE FOLLOWING WARNING COULD RESULT IN INJURY.



PLACING MACHINE IN SERVICE

- Always install, operate, inspect and maintain this product in accordance with all applicable standards and regulations (local, state, country, federal, etc.).
- Always use proper gauge cord with correct connections.
- Be sure all cords are securely connected to the recessed male plug.
- Ensure an accessible emergency shutoff when your machine is connected to power. Make others aware of its location.
- Do not use damaged, frayed, or deteriorated electrical cords or connections.
- Do not leave machines in operation unattended for over 4 hours without inspection.
- Keep all electrical connections clear of water or other liquid hazards.
- Always turn off and unplug your machine before performing any maintenance.
- Do not operate the machine while flammable or volatile liquids such as gasoline, diesel or jet fuel are present. Failure to do so can result in explosion.
- Keep work area clean, uncluttered and illuminated.
- Do not remove any labels. Replace any damaged labels.

USING THE MACHINE

- Always wear protection when operating or performing maintenance.
- Always use Personal Protective Equipment appropriate to the work being performed. This may include dust mask or other breathing apparatus, safety glasses, ear plugs, gloves, apron, safety shoes, hard hat and other equipment.
- If applicable, prevent exposure and breathing of harmful dust and particles:
 - Some dust created by power sanding, sawing, and grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead based paints,
 - Crystalline silica from bricks and cement and other masonry products, and
 - Arsenic and chromium from chemically treated lumber
 - Your risk from these exposures varies, depending on how often you do this type of work.
- Keep others a safe distance from your work area, or ensure they use appropriate Personal Protective Equipment.
- This machine is not designed for working in explosive environments, including those caused by fumes and dust, or near flammable materials.
- Keep hands, loose clothing, long hair and jewelry away from the machines blower assembly and "Air Intake."
- To avoid accidental starting – ensure machine in "off" position before connecting to power.
- Do not carry or drag the machine by the cord.
- Do not operate or maintain the machine under the influence of medication, drugs, or alcohol.
- Never use a damaged or malfunctioning machines,
- Do not modify the machine, safety devices, or accessories.
- Do not use this machine for purposed other than those recommended.
- Only use accessories recommended by BioKlean to ensure not voiding warranty.
- Whenever applicable, wear safety shoes, hard hat, safety goggles, gloves, dust mask and any other appropriate protective clothing in the work area.
- Do no indulge in horseplay. Distraction can cause accidents.
- Use only proper cleaning solvents to clean parts. Use only cleaning solvents which meet current safety and health standards. Use cleaning solvents in a well ventilated area.
- Do clean machine any parts with diesel fuel or any other petroleum distillates.
- Do not operate the tool with broken or damaged parts.
- This tool is not designed for working in explosive atmosphere.



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SECTION I

INTRODUCTION

This operation and maintenance manual is furnished with each **KLEANAIR 700**. It outlines the general use and maintenance requirements for efficient and safe operation.

READ ALL INSTRUCTIONS AND DATA IN THIS OPERATION AND MAINTENANCE MANUAL PRIOR TO OPERATION OF THIS EQUIPMENT.

These instructions are for your protection and convenience. Please read them carefully. Failure to follow these precautions could result in injury or death. Whenever using electric powered equipment, basic safety precautions should be followed.

If after reading this manual you still have questions, contact a **BIOKLEAN** authorized distributor or **BIOKLEAN** directly by dialing 1-866-563-7800.

SECTION II

GENERAL DESCRIPTION

The **KLEANAIR 700** is a portable, electrically powered Air Filtration machine, designed and manufactured by BioKlean. The machines function is to filter air and remove suspended airborne particulates.

This unit has a three stage filtering system. The Pre-Filter (two-ply ring) stage captures the bulk of the dust and debris. The second Pleated Filter stage captures any dust and dirt able to penetrate the Pre-Filter. The final stage is the 99.99% - 0.3 micron HEPA Filter utilized in areas where an extremely high level of filtration is desired.

The **KLEANAIR 700** requires a 115V - 3 Amp / 230v-2 Amp single phase power source.

WARNING Do not use circuits exceeding specified voltage. Higher voltage will damage controls and could cause shock or fire hazard.

SECTION III

ROUTINE MAINTENANCE

Inspect the unit for any loose or damaged parts prior to use.

CAUTION: Be sure power supply is in the OFF position prior to inspection!

- A. Clean the surfaces of the unit to remove accumulated dust or dirt. Do not use petroleum distillates, solvents, or thinners as cleaning agents. Remove any accumulated dust and dirt from control panel.
- B. Periodic checks should be made of the panel's Controls to insure proper operation.
- C. Filters should be checked hourly/daily and replaced if needed. This will help ensure proper air flow and extend motor life.
- D. Inspect ALL power connection. Be sure that the recessed plug is secure to the panel. If recessed plug is not secured, electrical shock or shortage may occur.
- E. Inspect the power cord connection for breaks, scorching, melting, oxidation, or signs of wear. If cord shows **ANY** of these signs, it needs to be replaced.

CAUTION: Do not tamper with or modify the blower housing, control panel, drive motor, or wiring scheme. Tampering or modifications could result in premature wear or failure and will void factory warranty.

CONTROL DESCRIPTIONS

1. Circuit Breaker Switch

The green circuit breaker switch is used to show power is going to KleanAir 700 and protect the controls of the machine. This adds power to the GFCI outlets to allow daisy chaining of equipment and will trip if maximum amperage is exceeded.

2. Variable Speed Dial

The variable speed dial can be set from 200 -700cfm depending on the desired vacuum flow. The maximum setting is shown to the left as the dial is first turned to the "ON" position.

3. Auxiliary "GFCI" protected Outlet -115v

The auxiliary GFCI outlet can be used to daisy chain "**No More**" the 3 units together. The maximum of 12 Amps when the unit is in the "**OFF**" position and 9 Amps when the unit is in the "**ON**" position. You can attach other pieces of equipment to this but are limited to the maximum amp draw. When the outlet is working properly the green light is lit on circuit breaker.

Auxiliary Outlet -230v (Not Shown)

The auxiliary 230voutlet can be used to daisy chain "**No More**" the 3 units together. The maximum of 6 Amps when the unit is in the "**OFF**" position and 4 Amps when the unit is in the "**ON**" position. You can attach other pieces of equipment to this but are limited to the maximum amp draw. When the outlet is working properly the green light is lit on circuit breaker.

CAUTION: If the GFCI trips "**UN-PLUG**" the unit from the power source and check for any potential hazards (damaged power cord, moisture, too many units plugged, etc.) causing a power surge. Once unit is evaluated plug the unit into a new power source and push the reset button. If unit operates as normal: continue use, if unit trips again contact BIOKLEAN at 866-563-7800.

4. Filter change indicator

The indicator light will alert the operator when filters are loaded or when air flow is greatly decreased. The light will come on once the pressure reaches approximately 3" of water column. Filters should be inspected and replaced. Once filters are replaced the light will go off. If light stays on contact BioKlean at 866-563-7800.

5. Power Cord

Firmly insert the female end of the power cord into a grounded power source. Visually inspect the cord for any damage before installation into power source.

CAUTION: A loose, corroded, ill fitted or damaged cord or plug can cause injury. If cord has any of these issues should be re-placed immediately.

KleanAir 700 Control Panel – 115v



SECTION IV

PRIOR TO USE

- A. Wrap and inspect power cord.
- B. Remove any excess dust/dirt from exterior housing and control panel.
- C. Be sure the HEPA Filter and Pre-Filters are installed properly with a positive seal.
- D. Insure the unit is connected to a 115 volt grounded outlet.
- E. Make sure unit is safely positioned as not to impede any entrances or exits of the work area.
- F. If applicable, check exhaust port connections for tight seal.

CAUTION: Insure power cord is securely attached to control panel and in good condition.

OPERATION

- A. When utilized in containment, the KleanAir 700 should be positioned a minimum distance away from the entrance and located towards the center of the containment.
- B. When working with contaminants, insure the HEPA filter is correctly installed and sealed.
- C. Install the pre-filter and pleated filters into unit.
- D. Insert the female end of the power cord, into the grounded 115v outlet.
- E. To begin operation, depress the green circuit breaker switch to the on position. The green light will be lit on the breaker if working properly. This must be in the on position to use GFCI outlet.
- F. Turn the variable speed dial to operate the fan from 200 -700CFM from high to low.
- G. A total of three units can be connected together to create a negative pressure in different parts of the containment area.

SECTION V

REPLACEMENT OF FILTERS

The work atmosphere will impact the frequency of filter replacements. Once the filters load and the pressure reaches approximately 3" the visual alarm will light.

CAUTION: Always wear approved respirators and personal protective equipment during filter replacement. Please observe all Federal, State, and Local regulations regarding the handling and disposal of hazardous materials.

TWO-PLY RING FILTER REPLACEMENT

- A. Set the variable speed and circuit breaker power switches to the off position. Disconnect power supply.
- B. Remove inlet panel to expose the Two-Ply Ring and pleated filters.
- C. Reach in and remove the Two-Ply Ring Filter and dispose of Two-Ply Ring Filter accordingly.
- D. Replace the discarded Two-Ply Ring Filter with a new Two-Ply Ring Filter.
- E. Reinsert the inlet panel.
- F. Plug in power cord to 115v grounded outlet and turn the circuit breaker to the "ON" position. Turn the variable speed controller to the "High" position. If the visual alarm light is still on the pleated filter should be inspected.

PLEATED CARBON FILTER REPLACEMENT

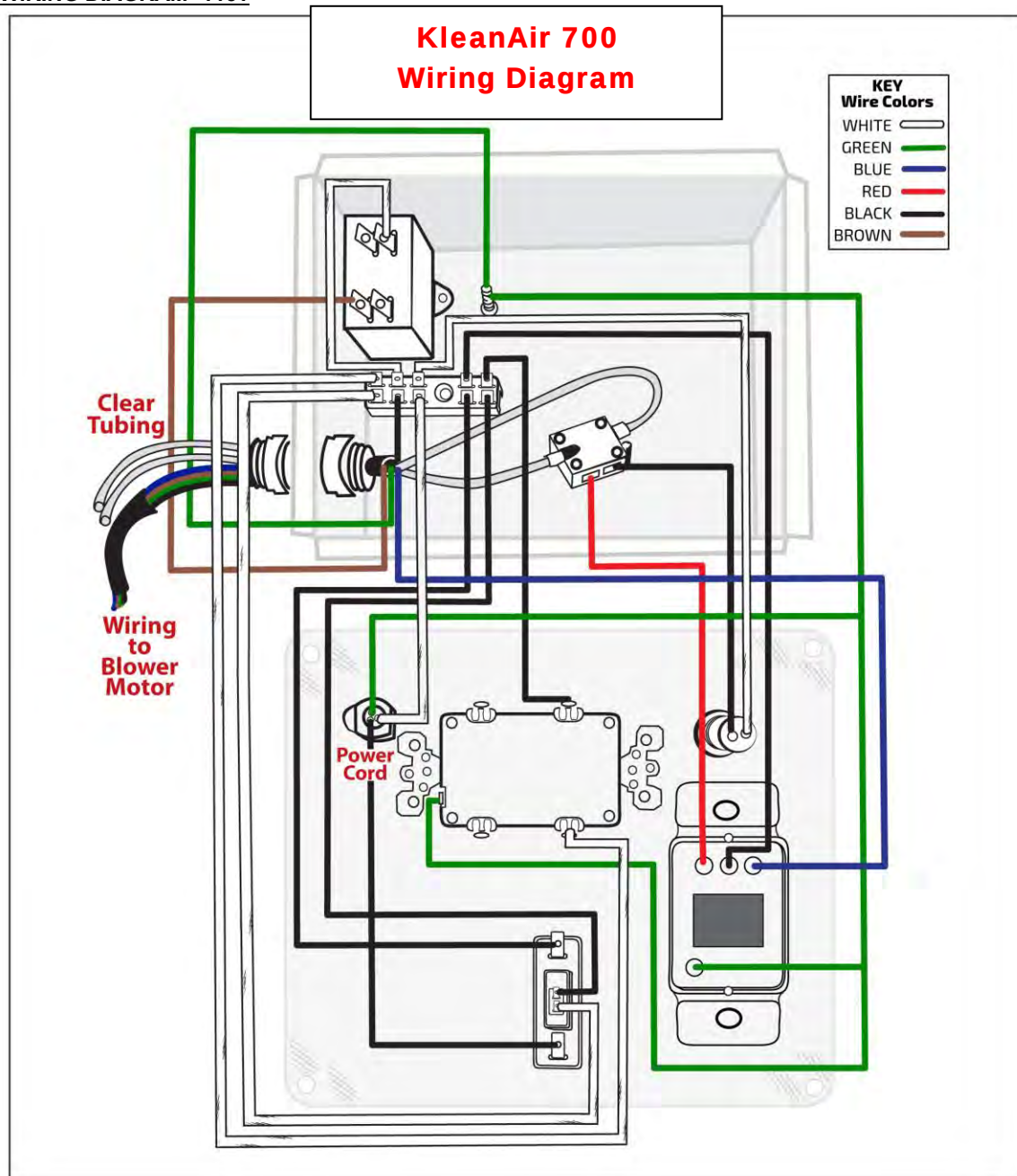
- A. Follow steps **A-D** listed above referencing Two-Ply Ring Filter replacement.
- B. Reach in and remove the pleated carbon filter and dispose of pleated carbon filter accordingly.
- C. Replace the discarded pleated carbon filter with a new unused pleated filter.
- D. Reinstall the Two-Ply Ring Filter.
- E. Reinsert the inlet panel.
- F. Plug in power cord to 115v grounded outlet and turn the circuit breaker to the "ON" position. Turn the variable speed controller to the "High" position. If the visual alarm light is still on the HEPA filter should be inspected.

HEPA FILTER

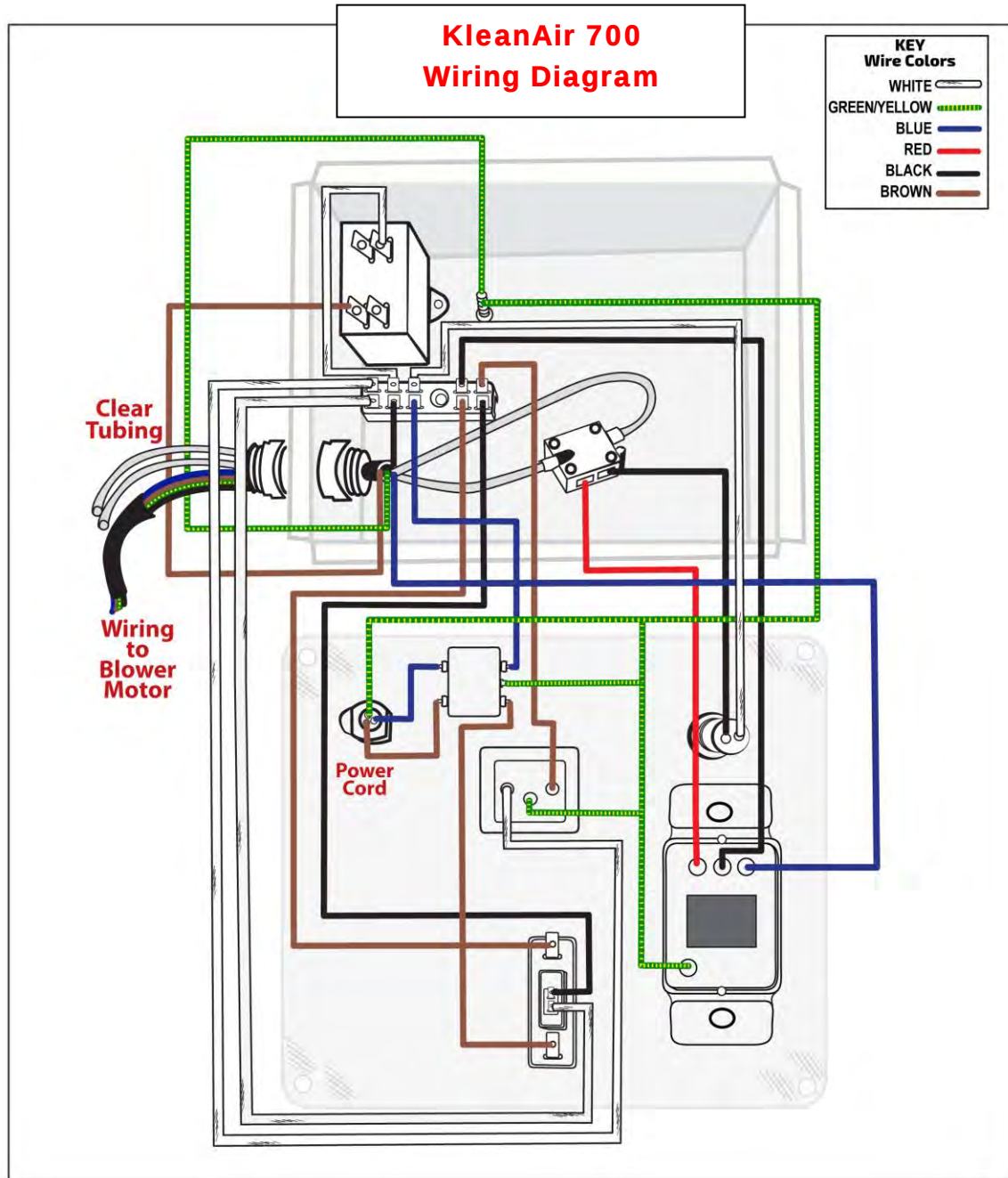
- A. Follow steps **A-D** listed above for Two-Ply Ring Filter replacement.
- B. Locate and remove the (8) hex flange filter screws on the housing filter frame exposing the HEPA filter.
- C. Firmly grasp the HEPA filter and dispose of HEPA filter accordingly.
- D. Carefully Inspect the new HEPA filters gasket for cracks, gaps or defects. Any defective gaskets must be replaced.
- E. The HEPA filter has two sides. One side is has a gasket, the other does not. Insert the side with the gasket of the HEPA filter first and press firmly against the housings internal rib.
- F. Install the housing filter frame and reinstall the (8) hex flange filter screws. Tighten the screws to properly seal and secure the HEPA filter in place.
- G. Reinstall Two-Ply Ring Filter and pleated carbon filter. (Reference Two-Ply Ring Filter and Pleated Carbon Filter Replacement).
- H. Insert the housing inlet panel.

SECTION VI

WIRING DIAGRAM -115v



WIRING DIAGRAM -230v



KleanAir 700

Item No.	Description	Part #	Ea.	Qty.	Item No.	Description	Part #	Ea.	Qty.
1a	KleanAir Housing Assembly	KA0760	Ea.	1	22	Foam Plug Split Key Ring	KA0732	Ea.	2
1	KleanAir 700 Housing Body	KA0765	Ea.	1	23	Foam Plug Black Lanyard	KA0730	Ea.	1
2	KleanAir 700 Housing Inlet Panel	KA0766	Ea.	1	24	Lanyard Cable Clamp	KA0735	Ea.	1
3	KleanAir 700 Housing Inlet Panel	KA0767	Ea.	1	25	Control panel	KA0770	Ea.	1
4	Blower Motor - 700cfm (115v)	KA0710	Ea.	1	26	Control Panel Label	KA0773	Ea.	1
5	Blower Motor - 700cfm (230v)	KA0711	Ea.	1	27	Variable Speed Controller 115v	KA0720	Ea.	1
6	Blower Motor Capacitor 115v	KA0713	Ea.	1	28	Variable Speed Controller 230v	KA0721	Ea.	1
7	Blower Mount & Sealing Plate	KA0714	Ea.	1	29	Variable Speed Dial	KA0725	Ea.	1
8	Sealing Plate Inlet Ring	KA0716	Ea.	1	30	Visual Alarm Light 115v	KA0732	Ea.	1
9	Hepa Filter 16" x 16" x 3"	KA0717	Ea.	1	31	Visual Alarm Light 230v	KA0733	Ea.	1
10	Pleated CB Filter 16" x 16" x 2"	KA4720	Ea.	1	32	Circuit Breaker 115v	KA0730	Ea.	1
11	Pre-filters (24Box)	KA4035	Ctn.	1	33	Circuit Breaker 230v	KA0731	Ea.	1
12	Flange Door Rubber Seal	KA0750	Ea.	1	34	Power Cord - 115v US	KA0740	Ea.	1
13	Handle	KA0780	Ea.	1	35	Power Cord - 230v Euro.	KA0742	Ea.	1
14	Handle Mounting Hardware	KA0799	Ea.	2	36	Power Cord - 230v Aus.	KA0743	Ea.	1
15	Flange Door Latches	KA0750	Ea.	1	37	Power Cord Stay	KA2520	Ea.	1
16	Sealing Plate Gasket	KA4006	Fl.	8	38	GFCI Outlet - 115v	KA0737	Ea.	1
17	Filter Frame Gasket	KA4007	Fl.	8	39	GFCI Outlet - 230v	KA0737NZ	Ea.	1
18	Rubber Foot	KA0740	Fl.	4	40	Terminal Block	KA0727	Ea.	1
19	Rubber Foot Mounting Hardware	KA1011	Ea.	4	41	Exhaust Port Screen	KA0784	Ea.	1
20	Foam Intake Door Plug	KA0786	Ea.	1	42	Differential Vacuum Switch	KA0734	Ea.	1
21	Foam Plug Clevis Pin	KA0731	Ea.	2	43	Metal Control Box	KA0775	Ea.	1
					44	Hex Flange Filter Screws	KA0750	Ea.	8
					45	Power Supply RFI Filter - 230v	KA0728	Ea.	8

SECTION VIII

SAFETY

BioKlean Airborne Containment Purifiers are highly efficient systems designed to reduce air borne particulates. To insure proper operation, the following safety precautions should be strictly adhered to:

- A. Do not leave machine unattended when connected to a power source. Turn OFF electric supply and disconnect from power source when not in use and/or before servicing.
- B. Do not operate with damaged or malfunctioning parts. If the unit is not working as intended, return to an Authorized Repair and Service Center.

NOTE: Always replace worn or damaged components with genuine BOKLEAN parts. Failure to comply could result in equipment failure and will void warranty.

- C. Remove any loose clothing and adornments prior to operation.
- D. Keep outer surfaces free of dirt and debris. Be sure all controls clean and functioning properly.
- E. Turn off power prior to any filter inspection and replacement.
- F. Do not operate unit with flammable or combustible liquids or gases present.
- G. Do not operate the machine in wet conditions. Failure to do so could result in electrical shock or death.
- H. Never operate the unit if there is any possibility of contact with the blower wheel.
- I. It is the responsibility of the unit owner to ensure that all equipment is maintained in safe and efficient operating condition.
- J. Stacking of machines is limited to three units. Do not house stacked machines in areas hotter than 100 degrees Fahrenheit. **(Failure to comply will void warranty.)**

TROUBLESHOOTING

- A. Basic issues listed below. For any further problems not listed, call your local distributor or BioKlean at 866-563-7800.

Problem	Cause	Solution
Unit will not operate	- No power to unit - Variable speed controller not on - GFCI green light off (115v) - Circuit breaker green light not on - Building circuit breaker tripped - Defective power cord	- Check power at outlet - Turn dial switch on - Push reset on GFCI outlet - Turn on Breaker switch - Reset panel breaker - Check power cord connections
Fan Wheel not turning	- Obstruction block fan - Variable speed controller not on - No power to Unit	- Remove Obstruction - Turn dial switch on - Check power at outlet
Circuit breaker on unit or building panel trips	- Overloaded circuit on control panel - Overloaded circuit at panel box	- Unplug any equipment from GFCI - Unplug any additional equipment from outlet
Filter change light illuminated	- Filters are full/loaded - Inlet panel restricted	- Change filters; refer to section V in manual - Check ducting; eliminate bends

BIOKLEAN LIMITED WARRANTY

ELECTRICAL COMPONENTS utilized in the **KLEANAIR** product line are warranted to be free from defects in material and workmanship for a period of **180 DAYS** from date of purchase from **BIOKLEAN**. The remaining materials in the **KLEANAIR** are warranted to be free from defects in material and workmanship for a period of **1 YEAR from the date of purchase from BIOKLEAN**. This warranty does not extend to accessories.

This warranty applies only to **UNITS** purchased from **BIOKLEAN** or **authorized retailers**. This warranty does not apply to any **UNIT** which has been abused, misused, modified or repaired by someone other than **BIOKLEAN** or its authorized repair center.

If a **UNIT** proves defective in materials or workmanship within one year of purchase, it should be returned to **BIOKLEAN** via pre-paid transportation. The return must be accompanied by a **RETURN MERCHANDISE AUTHORIZATION NUMBER (R.M.A. #)** obtained from **BIOKLEAN**. The Return authorization number must be clearly marked on the outside of the package being returned. Any returned merchandise that does not have a return merchandise authorization number clearly marked on the outside of the package will be refused and returned to sender.

Warranty claims will only be considered upon proof of purchase date. **BIOKLEAN** will, at its discretion, **REPAIR or REPLACE DEFECTIVE PARTS**. Repairs or replacements parts are warranted as above for the remainder of the original warranty period. The sole liability of **BIOKLEAN** and the user's exclusive remedy under this warranty is limited to the repair or replacement of the defective product.

THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED AND **BIOKLEAN** SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OR ANY OTHER EXPENSES OR REPAIR OR REPLACEMENT AS DESCRIBED ABOVE.

All warranty claims should be forwarded to:

BIOKLEAN
254 Welsh Pool Rd
Exton, PA 19341

ATTENTION: CLAIM AND SERVICE DEPARTMENT
R.M.A. # _____

CALL Toll Free at 1-866-563-7800 for your RMA number PRIOR TO SHIPPING.

Also include a brief description of the problem as well as a phone number, contact name and return address in case **BIOKLEAN** service personnel has to get in contact with you.

