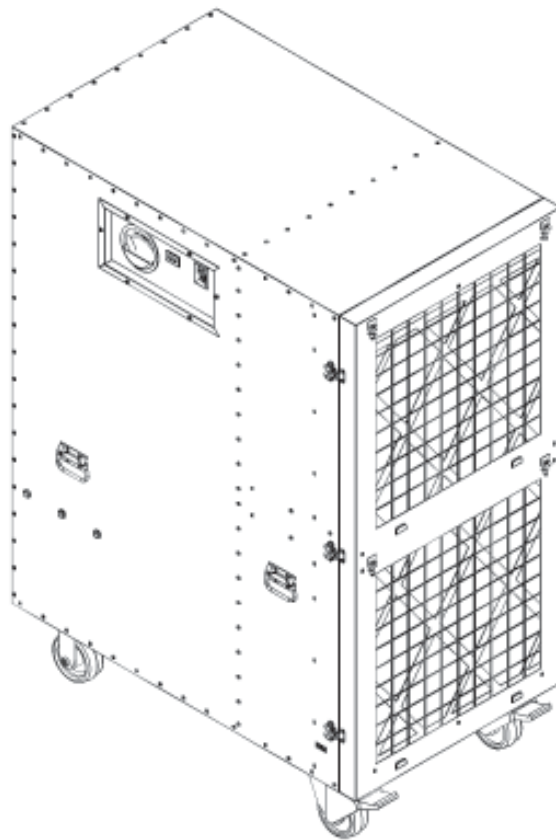




HEPA-AIRE® PORTABLE AIR SCRUBBER - PAS5000

INSTRUCTION MANUAL

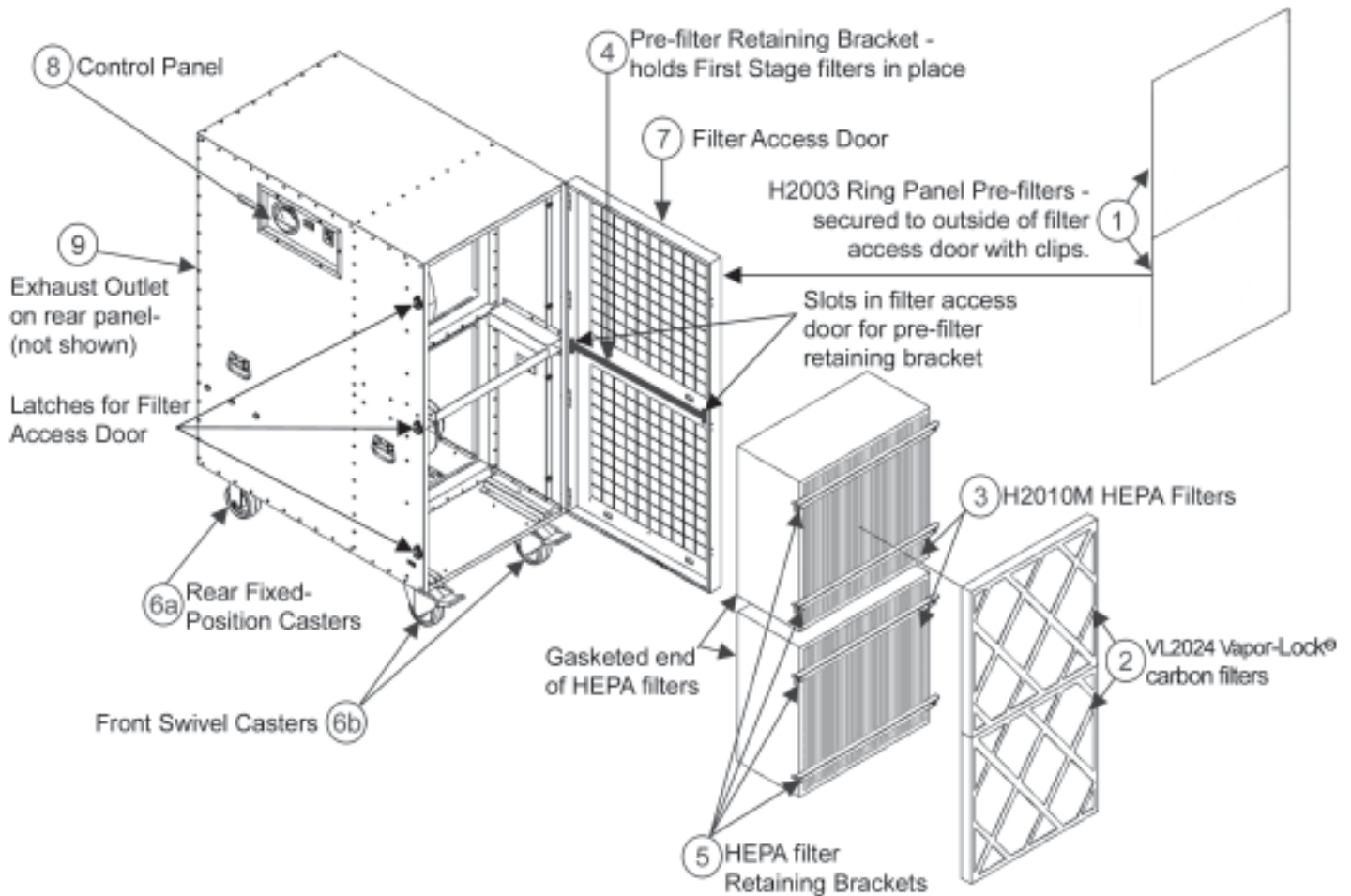


Abatement Technologies, Inc./Remediation Products Division

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HEPA-AIRE® PORTABLE AIR SCRUBBER PAS5000



1. First Stage: Ring panel pre-filters (P/N H2003)
2. Second Stage:
 - Standard: 2" high capacity Vapor-Lock® carbon filters (P/N VL2024)
 - Optional: 2" pleated particulate pre-filters (P/N H2002)
3. Final Stage: 11 1/2", 99.97% HEPA filters with metal frame (P/N H2010M)
4. Pre-filter retaining bracket
5. HEPA filter retaining brackets
6. Casters:
 - a. 2 each 5" fixed position casters
 - b. 2 each 5" 360° swivel casters with locking feature
7. Filter access door
8. Control Panel
9. 14" Exhaust outlet - on rear panel of unit

**HEPA-AIRE® Portable Air Scrubber
Model: PAS5000
Instruction Manual**

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READ AND SAVE THESE INSTRUCTIONS!

- Note:** 1. Read and understand all operating instructions before using the PAS5000 Portable Air Scrubber
2. Save this manual for future reference.

This instruction manual provides important information on the use of the HEPA-AIRE® Portable Air Scrubber (PAS) - model PAS5000. These instructions must be carefully followed in order to operate the unit safely and correctly. If there are any questions regarding the use of the unit, please contact Abatement Technologies immediately at 800-634-9091 U.S. or 905-871-4720 Canada.

Abatement Technologies strongly urges users of air filtration units and related accessories to follow the most recent guidelines and/or standards published by the Occupational Safety and Health Administration, Environmental Protection Agency, and all other federal, state, provincial and local regulations.

GENERAL INFORMATION

The PAS5000 is a multi-use air filtration device, equipped with two stages of pre-filters and two HEPA filters that are capable of filtering many airborne contaminants. The unit is equipped with Vapor-Lock® high capacity carbon pre-filters for capturing particulates and low concentrations of odors, vapors, gases, and volatile organic compounds, collectively known as OVG

Types of contaminants captured by carbon pre-filters and HEPA filters:

- Dirt
- Dust
- Drywall dust
- Saw dust
- Lung-damaging particles
- Metal fumes
- Smoke
- Molds and fungal spores
- Low concentrations of OVG
- Low concentrations of Volatile Organic Compounds (VOC)
- Unpleasant nuisance odors

Note: To capture low concentrations of OVG, a Vapor-Lock® carbon filter must be used.

The PAS5000 is capable of providing particulate and odor, vapor, gas filtration with final stage filtration through two High Efficiency Particulate Air (HEPA) filters. The unit incorporates a series of particulate filters that successively remove larger size to smaller size particles from the air. In addition to providing HEPA filtration, the PAS5000 is primarily used in a negative pressure or recirculation mode. A negative pressure condition is created in order to confine contaminated airborne particles. This condition exists when the static pressure inside the room containing the unit is lower relative to the pressure of the environment outside the room. The static pressure differential is created and maintained by continuously exhausting air out of a given room at a faster rate than air enters the room from all other sources. In the recirculation mode, all of the filtered air is exhausted back into the room containing the unit.

Standard Air Cleaning Stages (filters supplied with the unit)

The PAS5000 comes equipped with two ring panel pre-filters attached to the outside of the filter access door, two high-capacity carbon filters mounted in the filter access door channel, and two final stage HEPA filters mounted inside the unit's cabinet:

- The first and second stages of pre-filters are designed to capture OVG and particles 10 microns or larger in size.

- The metal frame HEPA filter (H2010M) is tested & certified to capture at least 99.97% (9,997 out of 10,000) of 0.3-micron particles.

Vapor-Lock® carbon filters help reduce airborne OVG by chemically bonding the OVG molecules to the surface area of the carbon granules, via a process known as adsorption. Effective carbon adsorption is dependent upon the amount of carbon & exposed carbon granule surfaces, and the dwell (contact) time the OVG molecules have with the carbon granules. Operating the unit in the recirculation mode can increase effectiveness, by exposing OVG particles to multiple passes through the Vapor-Lock filter. It is almost impossible to provide accurate estimates to two commonly asked questions: “how much time will it take to capture all of the OVG?” and “how do I know when a carbon filter should be replaced?” Unfortunately, unknown factors, such as concentration levels, fresh-air intake volume, temperature, and humidity prevent establishment of any more accurate ‘rule of thumb’ than one’s sense of smell. Since off-gassing of adsorbed OVG can occur when the adsorption capacity of the filter is reached, replace the carbon filter as soon as odor breakthrough is sensed. More detailed information on carbon adsorption can be found in an article titled: “**Activated Carbon: How Is It Used? How Does It Work?**”, which can be found on the Abatement Technologies website, www.abatement.com.

Optional Filter (must be purchased separately)

An optional pre-filter can be used in the PAS5000:

- 2" deep, pleated particulate pre-filter (H2002) is designed to capture particles 10 microns or larger in size.

Note: This filter does **not** remove odors, vapors or gases, including volatile organic compounds.

HOW TO DETERMINE THE REQUIRED NUMBER OF AIR FILTRATION DEVICES (AFD)

1. Calculate the total air volume (V) in cubic feet (ft³) within the enclosed containment area by multiplying the length (L) x the width (W) x the height (H), all in feet ($V = L \times W \times H$).
2. Determine the minimum number of air changes per hour (ACH) specification. When no ACH number is specified, most users target at least 6 ACH for construction areas. Building in a safety factor to compensate for filter loading, duct losses, reduced voltage and other factors that can reduce actual installed airflow is a good practice. For example, if 6 ACH is the objective, you might design for 8 ACH.
3. Select an Abatement Technologies air filtration device (AFD) model and determine the peak airflow rating for that model in cubic feet per minute (CFM).
4. Determine the total number of AFD required using the following formula:
Quantity = $(V \times \text{Design ACH}) / (\text{AFD Rating} \times 60)$
5. Always round up to the next whole number. For example, if the total number of AFD required is 2.13, 3 units are recommended, not 2.

Example: How many air filtration devices (each with 600 CFM rated airflow) would be required to provide 8 ACH (including a safety factor) in a 40ft L x 24ft W x 10ft H containment area?

1. $V = 40\text{ft} \times 24\text{ft} \times 10\text{ft} = 9,600\text{ft}^3$
2. Design ACH = 8
3. Quantity of AFD required = $(9,600\text{ft}^3 \times 8 \text{ ACH}) / (600 \text{ CFM} \times 60) = 76,800/36,000 = 2.13 = 3 \text{ units}$

PAS5000 TRANSPORT

Note: The PAS5000 should be transported in the vertical position. If extremely poor road conditions exist, or excessive shock and vibration are expected, take precautionary measures by padding the unit to provide impact absorption during transport.

Caution: Always use caution when moving the PAS5000 inside a building. The unit weighs 395 pounds. Older structures with weakened floors may require special considerations for safe transport.

ELECTRICAL REQUIREMENTS

1. The PAS5000 requires a minimum of 208 volts, 60 Hz to operate properly; however, maximum airflow performance requires 230 volts AC, 60 Hz.
2. The PAS5000 draws a maximum of approximately 21 amps of current during normal operation; however, due to momentary start-up current surge, the unit requires a 30 amp circuit that is free of other loads.
3. If the unit is connected to a circuit that is protected by fuses, use time delay fuses.
4. Extension cords used for the PAS5000 must be UL-listed, heavy duty No. 8/4 AWG SOOW industrial grade 4-wire type. Use of larger numerical gauge (lower capacity wire) power cord(s) may result in electrical shock, fire hazards and/or damage to unit. The cord(s) must be in good condition and in continuous lengths (no splicing) and should not exceed a total of 25 feet in length. Make certain that any extension cords used do not reduce power to the unit to less than 208 volts. Use of a voltmeter to confirm adequate voltage is recommended.
5. Check to ensure that any circuit to which the unit is connected is protected by a 30 ampere circuit breaker.
6. The PAS5000 should be connected to a four-prong, properly grounded electrical outlet equipped with a Ground Fault Circuit Interrupt (GFCI) device. A GFCI is an electrical safety device that will trip the circuit and stop the flow of electricity if leakage of current is detected.
Important Note: The PAS5000 should be plugged into a GFCI receptacle at the power source to protect the power cord and the unit. This GFCI will trip the circuit if it detects leakage of current from the power cord or unit.
7. Refer to WIRING SCHEMATIC and WIRING DIAGRAM for electrical plug and wiring requirements.
8. **The PAS5000 should be connected to its power source in accordance with local, NEC and CEC electrical codes.**
9. To avoid personal injury, fire hazards and/or damage to the PAS5000 electrical system and power cord, do not connect or disconnect the power cord to an electrical outlet unless the unit's main power switch is "OFF".

REQUIREMENTS FOR SAFE OPERATION

1. Never allow unauthorized individuals or children to operate the unit at any time.
2. Abatement Technologies urges anyone operating the PAS5000 to wear the proper personal protective equipment and follow safe work practices in accordance with federal, state, provincial and employer regulations.
3. Check the condition of power cord(s) before using them. Damaged cords can cause fatal electric shock and/or motor failure.
4. Power cord(s) should never be exposed to water, heat, sharp, or abrasive objects; in addition, they should never be kinked or crushed. Avoid tightly wrapping the cords to prevent kinking of the internal wires. Always replace damaged power cords immediately.
5. Never pull the unit by the power cord.
6. Avoid running over power cords with utility equipment and vehicles.

Important Safety Instructions

- a. **Do not operate any unit with a damaged cord or plug. Discard unit or return it to an authorized service facility for examination and/or repair.**
- b. **Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.**

Caution: Potential risk of fire, electrical shock, or injury to persons.

Caution: As with any piece of electrical equipment, always make sure that the unit is turned “OFF” prior to connecting the power cord to an electrical outlet or disconnecting it from an electrical outlet. Failure to do so will cause “arcing”, and could result in personal injury, fire hazards and/or damage to the unit. Do not disconnect the power cord from supply receptacle while the unit is operating.

Warning: To reduce risk of electrical shock, do not expose this unit to water or rain. Do not touch the electrical outlet or power cord(s) with wet hands or while standing on a wet or damp surface.

Warning: Risk of electrical shock! Can cause injury or death! Turn unit “OFF” and disconnect power cord from supply receptacle before replacing the HEPA filters and before cleaning or servicing the unit.

Warning: The H5000C is equipped with an automatic restart system that will restart the motor and blower assembly without warning after a temporary power interruption. Keep clear of the motor and blower assembly at all times to reduce the risk of injury.

Warning: To reduce risk of fire or electrical shock, do not use the PAS5000 with any solid state speed control device. Do not use in a cooking area.

Caution: The PAS5000 is designed for indoor use only.

CAUTION: For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials And Vapors.

Warning: Abatement Technologies air filtration systems are not intrinsically safe for use in hazardous environments. Always consult a certified industrial hygienist before using them. Do NOT use this equipment in any atmosphere that is or may be immediately dangerous to life or health (IDLH), combustible, flammable, explosive, oxygen deficient, and/or contains odors, vapors, gases or particulates that exceed permissible exposure levels. Such atmospheres may require the use of intrinsically safe equipment, specific engineering controls, and personal protective equipment in accordance with Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA), Canadian Standards Association (CSA), and other federal, state, provincial and local regulations.

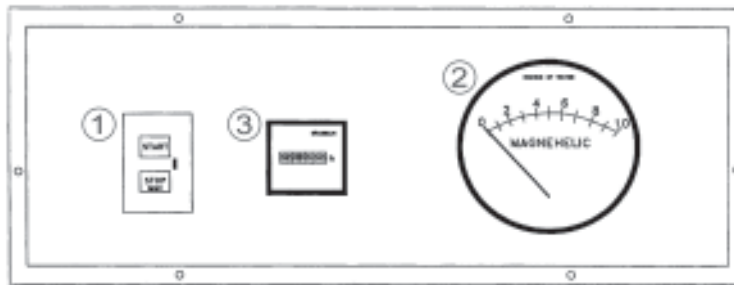
Warning: This equipment is not classified as “intrinsically safe” and should not be used in the following hazardous locations as defined by the Underwriters Laboratories: Class I Division 1, Class I Division 2, Class I Zone 0, Class I Zone 1, Class I Zone 2, Class II Division 1, Class II Division 2, Class III Division 1, Class III Division 2. Refer to the UL web site: <http://www.ul.com/hazloc/define.htm>.

Warning: Do not use this unit near sparks, open flames or other possible sources of ignition.

PAS5000 CONTROL PANEL

1. **Power Switch** - The main power ON/OFF switch. Push "START" to turn unit "ON" and push "STOP" to turn unit "OFF".
2. **Magnehelic Pressure Gauge** - Indicates total system differential pressure in inches of water column (WC). An increase in differential pressure indicates excessive restriction on intake or loading of the filter(s) and that filter change procedures should be followed.
3. **Hour Meter** - Provides a count of the total operating hours.

Note: Unit is equipped with a hardwired 10 ft 10/4 AWG SOOW power cord for connection to an electrical outlet.



BEFORE OPERATING THE UNIT, NOTE THE FOLLOWING:

Note: The first-stage Vapor-Lock® carbon filters are packaged in poly bags to preserve the integrity of the carbon granules. Remove the carbon filters from their poly bag before operating the unit; otherwise, airflow through the unit will be severely restricted.

Inspect and tighten any HEPA filter retaining bolts that may have loosened during transportation. Inspect the filters for any material or structural damage prior to use and replace any damaged filters before operating the unit. When removing any filters prior to operation, always put them back in place with airflow indicator on filter housing oriented in the proper direction (if applicable).

As with any air filtration system, external airflow losses not attributable to the air filtration unit will reduce the airflow of the system. The following recommendations can minimize airflow losses created by external static resistance.

1. Always use the minimum length of ducting possible with the fewest possible number of turns and bends.
2. Rigid metal ducting creates less turbulence and consequently less airflow loss than flexible ducting. Regardless of the type of ducting used, rigid, "sweep-type", radiused connections should be used for all turns and bends.
3. If flexible ducting is used, it must be kept as taut as possible to avoid flattening.

LOCATION OF THE UNITS AND MODES OF OPERATION

1. **Negative Pressure** - used to help ensure that airborne contaminants do not escape from a contained area, by maintaining negative (lower) air pressure within that area compared to adjacent areas. This is generally accomplished by placing the unit inside the containment area and exhausting filtered air from the unit out of the area. The filtered air must be exhausted outside of the containment area, either directly to the outdoors, or into another part of the building. To maintain negative pressure, the air exhaust must exceed the air supply by the greater of: 10% or 100 CFM. To achieve this differential, the air supply volume to the area may have to be reduced. Negative pressure levels should be continuously monitored.

2. **Recirculation** - used to reduce concentrations of airborne contaminants in a room or area by continuously cleaning the air and exhausting it back into the same room or area.
3. **Positive Pressure** - used to help prevent airborne contaminants from entering a containment area, by keeping that area under positive pressure compared to adjacent spaces, so any air leakage will be an outflow of clean air, and not inflow of contaminated air. This pressure differential can be established by:
 - a. placing the unit inside the containment area, and using it to pull air into the area by attaching flex duct between the inlet collar(s) and a location outside of the containment area.
 - b. placing the unit outside of containment area, and using it to push HEPA-filtered air into the area through flex duct attached between the outlet collar and a location inside the area.

To ensure that the proper pressure differential is maintained, the volume of HEPA-filtered air supplied to the area must be the greater of: 10% or 100 CFM higher than the volume of air exhausted from it by the HVAC system. Positive pressure levels should be monitored continuously.

Important Note: Do not operate the unit unless the pre-filters and HEPA filters are installed and the filter access door is in place and closed.

TO START UNIT

1. Push the “STOP” button on the control panel to make sure the unit is “OFF”.
2. Plug power cord into a 230 volt AC, 60 Hz, single phase, 30 amp supply circuit.
3. Push the “START” button on the control panel.

Note: In the event of a power failure while the unit is running or loss of power due to any other cause, this unit’s motor will re-start when power is restored, after a brief delay.

FILTER REPLACEMENT

Note: Personnel responsible for changing filters, servicing units or relocating units within the facility are urged to wear the proper personal protective equipment and follow safe work practices in accordance with federal, state, provincial, and employer regulations.

Note: Filters being replaced must be disposed of in accordance with federal, state, provincial, local and facility regulations.

System airflow reduction is generally the result of filter loading, blockage of the unit’s inlet or use of excessive lengths of flex duct that is connected to the inlet.

The size and concentration of airborne contaminants, temperature and humidity conditions, and duration of use determine how often filters need replacement. When the magnehelic gauge on the control panel displays a pressure reading that exceeds 4.5 inches of water column (WC), this indicates one or more of the following: (1) pre-filter(s) are loaded, (2) the inlet is obstructed, (3) the flex duct, if attached to inlet, is too long or has too many bends, and (4) the HEPA filter(s) are loaded.

The method of determining when to replace the activated carbon filter is somewhat subjective. As the odor, vapor, and/or gas filtration capacity decreases, the user will begin to sense a slight odor or taste of the contaminant, indicating that the filter should be replaced.

Note: The filters are not reusable, therefore, do not attempt to clean and reuse them.

Caution: Abatement Technologies PAS5000 Portable Air Scrubber units are designed to meet or exceed standards for high efficiency air filtration equipment. Use only Abatement Technologies parts, including replacement filters. Use of non-Abatement Technologies parts and filters voids the product warranty and all performance claims.

Warning: To reduce the risk of fire, electrical shock or personal injury, always turn the PAS5000 “OFF” and disconnect the power cord from supply receptacle before replacing the HEPA filters and before cleaning or servicing the unit.

FILTER CHANGE PROCEDURE

To Change the First Stage Filters:

1. With the unit operating, release the clips on the outside of the filter access door and replace the ring panel pre-filters. Secure the new pre-filters in place with the clips.

To Change the Second Stage Filters:

1. With the unit operating, turn the filter access door latches counter-clockwise (approximately ½ turn) and open the door. Pull up on the pre-filter retaining bracket to release it from the slots in the filter access door.
2. Remove the second stage filters and replace them with new ones. See note below. Position the filters inside the filter access door channel and put the pre-filter retaining bracket back in place. Push down on the bracket to ensure that it is properly seated in the slots in the filter access door.
3. Close the filter access door, make sure it is flush against the cabinet and lock it in position.
4. If the magnehelic pressure gauge on the control panel exceeds 4.5 inches of WC after changing the first stage filters, the HEPA filters should be replaced.

Note: When replacing the Vapor-Lock® carbon filter, be sure to remove it from its poly bag before installing it in the unit. Vapor-Lock® filters are packaged in poly bags to preserve the integrity of the carbon granules.

To Change the HEPA Filters:

1. Push the “STOP” button on the control panel to make sure the unit is “OFF”, and disconnect the power cord from the electrical outlet.
2. Rotate the filter access door latches counter-clockwise to release them and open the door.
3. Remove the bolts that secure the HEPA filter retaining brackets in place (remove the lower bracket first, then the top bracket), set the brackets aside, and remove the HEPA filter from the cabinet. Do this for both HEPA filters.
4. Carefully install new HEPA filters inside the cabinet, gasketed end first. Ease the filters into the cabinet until they are flush against their sealing surface. HEPA filters are delicate and should be handled with care.
5. Re-attach the HEPA filter retaining brackets to secure the filters in their proper position. The top bracket should be re-attached first, then the bottom bracket. The bolts should be snug but not over-tightened. Do this for both HEPA filters.
6. Close the filter access door, make sure it is flush against the cabinet and lock it in position.

Warning: Use only Abatement Technologies pre-filters, HEPA filters, and replacement parts. Substitute parts void the warranty, jeopardize worker and environmental safety, and adversely effect engineered performance levels.

BLOWER DRIVE MAINTENANCE

The blower is driven by a belt and pulley system. The pulley on the blower has a fixed pitch diameter while the smaller pulley on the motor has a variable pitch. The speed has been factory set to draw an amperage of 21 amps with clean filters in place. The replacement belt is a B61 size. Any replacement belt should be tightened to eliminate any slippage. No pitch diameter adjustment is required, and should not be attempted.

PAS5000 SPECIFICATIONS

FEATURE	PAS5000
Net weight w/filters:	395 lbs.
Shipping weight:	456 lbs.
Dimensions (LxWxH):	44 1/4"L x 26 1/2"W x 59 1/2"H
Power supply requirements:	230 volts AC, 60Hz, single phase, 30 amp circuit
Normal operating amps:	21 amps or less
Motor:	5 HP, auto re-set, 60 Hz, single phase
Automatic restart:	Motor will automatically restart itself after temporary power interruption.
Blower assembly:	Belt driven
Operating flow rate (with clean filters):	4,000 CFM - See Note below
Operational sound level:	76 - 86 dBA, reading taken at 5 feet
Cabinet material:	Cabinet made from galvanized steel and assembled with solid rivets. Critical seams are sealed.
Transportability:	2 each - 5" diameter x 2" wide, 360° swivel casters with locking feature and 2 each - 5" diameter x 2" wide, fixed position casters. There are 4 handles mounted to the cabinet.
Pre-filter and HEPA filter access:	Hinged access door secured by rotating latches.
First stage pre-filter (2 ea):	Ring panel style pre-filters (H2003)
Second stage pre-filter (2 ea):	2" high capacity carbon filters (VL2024)
Optional second stage pre-filter (2 ea):	2" coarse particulate pleated pre-filters (H2002)
HEPA filter (2 ea):	Tested and certified to an efficiency of 99.97% or higher against 0.3 micron size particles (H2010M)

Specifications subject to change without notice.

Note: Airflow ratings estimates are based on factory and independent testing @ 220 VAC with an air straightener and a traverse of readings taken with a computing vane-anemometer. Actual results may vary for various reasons, including motor and blower and HEPA filter tolerances. Factors such as filter loading, reduced voltage to the motor, and inlet and outlet ducting will reduce airflow. Use these ratings as a general guideline only.

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
NO RESPONSE WHEN THE POWER SWITCH IS TURNED "ON".	POWER CORD UNPLUGGED. DEFECTIVE POWER CORD. TRIPPED CIRCUIT BREAKER. TRIPPED GROUND FAULT CIRCUIT INTERRUPTER. THERMAL OVERLOAD HAS TRIPPED DUE TO OVERHEATING CONDITION.	PLUG POWER CORD FIRMLY INTO ELECTRICAL OUTLET IN WALL. CHECK ALL CONNECTIONS AND CONDITION OF ALL CORDS. DO NOT OPERATE WITH DAMAGED POWER CORD(S). RESET BUILDING CIRCUIT BREAKER. RESET GFCI AT POWER SOURCE. PRESS "STOP" BUTTON, WAIT 20-30 MINUTES AND PRESS "START" BUTTON TO RESTART UNIT.
CIRCUIT BREAKER FOR BUILDING TRIPS.	OVERLOADED CIRCUIT.	REMOVE OTHER LOADS FROM CIRCUIT. RESET CIRCUIT BREAKER.
UNIT RUMBLES WHEN ATTEMPTING TO START.	LOW VOLTAGE OR LIMITED AMPERAGE IS SUPPLIED. EXTENSION CORD IS TOO LONG OR OF TOO HIGH A GAUGE. OTHER MACHINES OR LOADS ON SAME CIRCUIT.	CHECK POWER SUPPLY. FOR MAXIMUM PERFORMANCE, THE UNIT REQUIRES A 220-230 VOLT, 30 AMP CIRCUIT THAT IS LOAD FREE. EXTENSION CORD(S) SHOULD NOT EXCEED A TOTAL OF 25 FT IN LENGTH. USE GROUNDED 4-WIRE 8 GAUGE CORD(S). REMOVE OTHER LOADS FROM SAME CIRCUIT.
MAGNEHELIC GAUGE DISPLAYS A PRESSURE READING THAT EXCEEDS 4.5 INCHES OF WATER COLUMN (WC).	LOADED FILTERS. EXCESSIVE RESTRICTIONS ON INTAKE. CARBON FILTER HAS NOT BEEN REMOVED FROM POLYBAG.	CHANGE IN ACCORDANCE WITH INSTRUCTION MANUAL. REDUCE BENDS, LENGTH OF FLEX DUCT OR ELIMINATE RESTRICTIONS. REMOVE CARBON FILTER FROM POLYBAG.

Note: If the unit does not start or malfunctions after carefully following the Troubleshooting Guide, call Abatement Technologies' Service Department at 800-634-9091 (US) or 905-871-4720 (Canada) for assistance.

COMPONENT REPLACEMENT AND CARE OF UNIT

Warning: To reduce the risk of fire, electrical shock or personal injury, always turn the unit "OFF" and disconnect power cord from supply receptacle before removing the control panel, replacing the HEPA filters and before cleaning or servicing the unit. The PAS5000 is equipped with an automatic restart system that will restart the motor and blower assembly without warning after a temporary power interruption. Keep clear of the motor and blower assembly at all times to reduce the risk of injury.

Occasionally a defective component will cause the unit to operate improperly or not at all. Any electrical component can fail. Refer to the Wiring Diagrams and Wiring Schematics to diagnose the failure of any component. Diagnostics should only be performed by a technician qualified to service electrical equipment.

The unit should be cleaned with a damp cloth or a water-based cleaner/sanitizer. Do not use harsh chemicals, solvents or detergents to clean the unit.

Warning: Keep electrical components dry as their exposure to liquids poses a safety hazard and can damage components.

LIMITED WARRANTY

Abatement Technologies, Inc (ATI) warrants that goods sold to the original user shall be free from defects in material and workmanship for a period of 1 year, except such as are commercially acceptable. This warranty does not include useful filter life. **ATI does not warrant that the goods sold are merchantable or fit for any particular purpose. ATI makes no warranties other than as stated in this paragraph. All other warranties, guaranties, or representations, express or implied, by operation of law or otherwise, are expressly disclaimed.** Goods found by ATI to be defective or not to conform to specification shall upon return be replaced or repaired by ATI without any additional charges, or, at ATI's option, ATI may refund the purchase price of such goods. ATI will pay return transportation charges on returned goods not exceeding the transportation charges applicable to shipment from original destination unless the returned goods are free from defect and conform to specifications. Returned goods which are found by ATI to be free from defect and to conform to specifications shall be held for Purchaser's shipping instructions, which instructions Purchaser shall furnish promptly upon request. **ATI's liability shall in no event extend beyond replacement, repair or refund of the purchase price and ATI shall not be liable under any circumstances for special, contingent or consequential damages, nor for loss, damages, or expenses directly or indirectly arising from the use of the goods, including without limitation, warehousing, labor, handling and service charges, die, equipment, or machine breakage, nor for costs, lost profits or loss of good will. The use of substitute, non-ATI parts and/or filters, in any ATI product, voids all warranties and performance claims. The remedies set forth herein are exclusive.**

For warranty information and assistance contact Abatement Technologies' Customer Service Department at 800-634-9091 (U.S.) or 905-871-4720 (Canada.)

Abatement Technologies' PAS5000 high-efficiency air filtration units are originally equipped with true HEPA (High Efficiency Particulate Air) filters designed to maximize the performance of the equipment, and to meet the following industry standards:

Institute of Environment Sciences and Technology

IEST-RP-CC001.4 (Type A HEPA and ULPA Filters)

IEST-RP-CC021.2 (Testing HEPA and ULPA Filter Media)

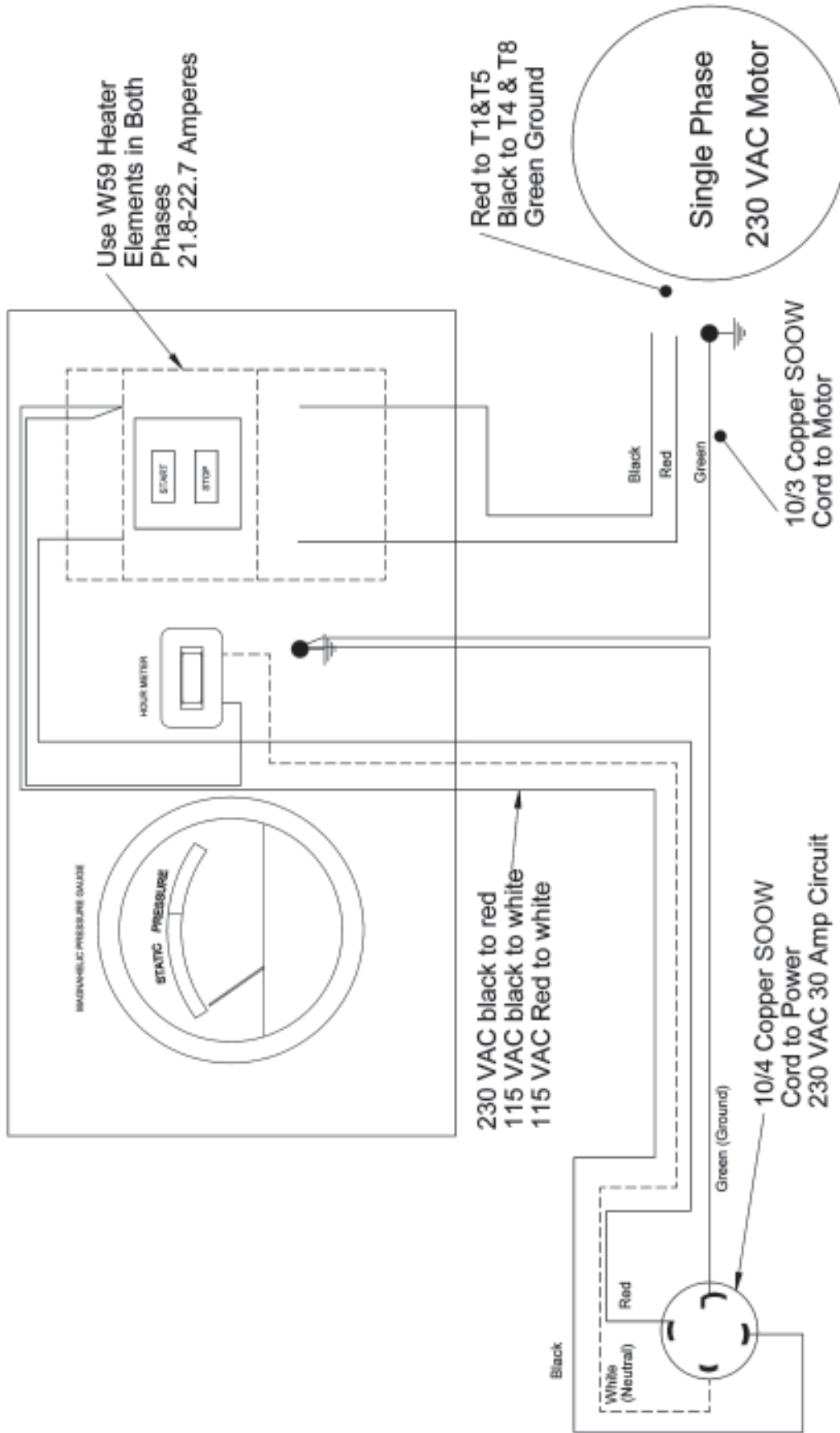
Underwriters Laboratories

UL900, Class II (Flammability Specifications)

100% Efficiency Tested

Abatement Technologies HEPA filters are individually tested and certified to ensure that the completed filter provides an overall minimum efficiency of 99.97% when challenged by a thermally generated test aerosol, 0.3-microns in size, in accordance with IEST-RP-CC034.2.

PAS5000 Wiring Diagram



PAS5000 Wiring Schematic

