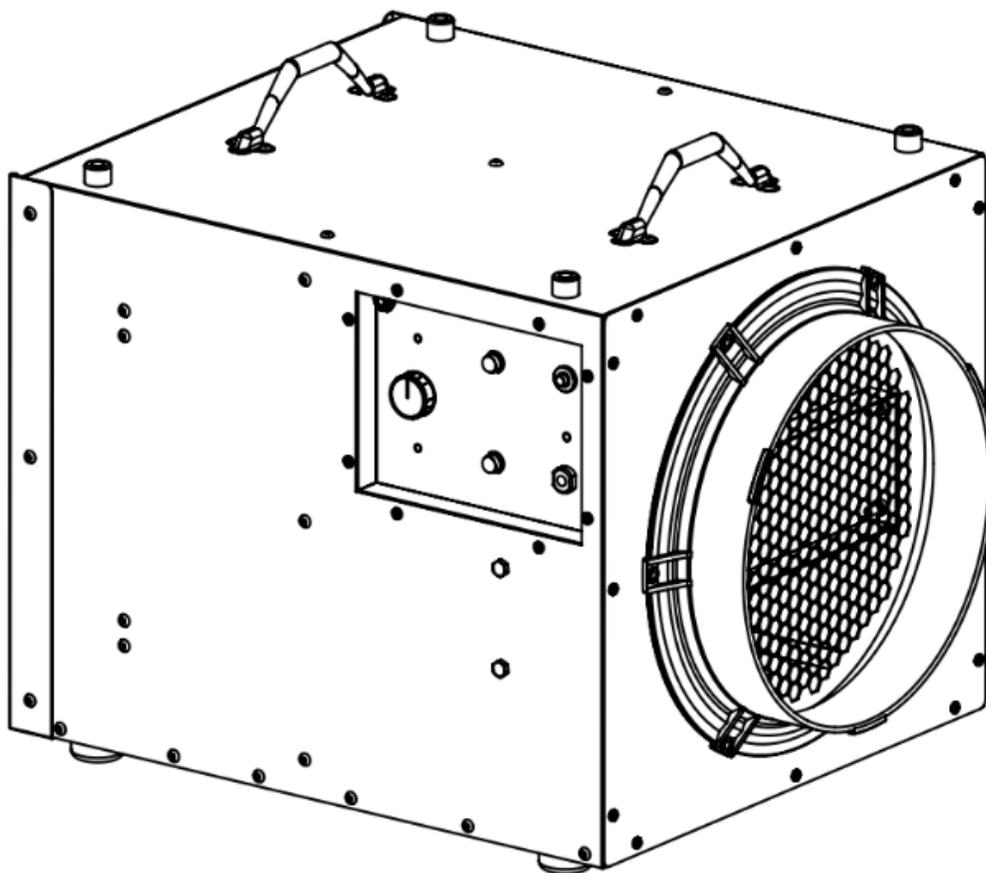




HEPA-AIRE[®] Portable Air Filtration Unit **HA700 and HA700A**



Instruction Manual

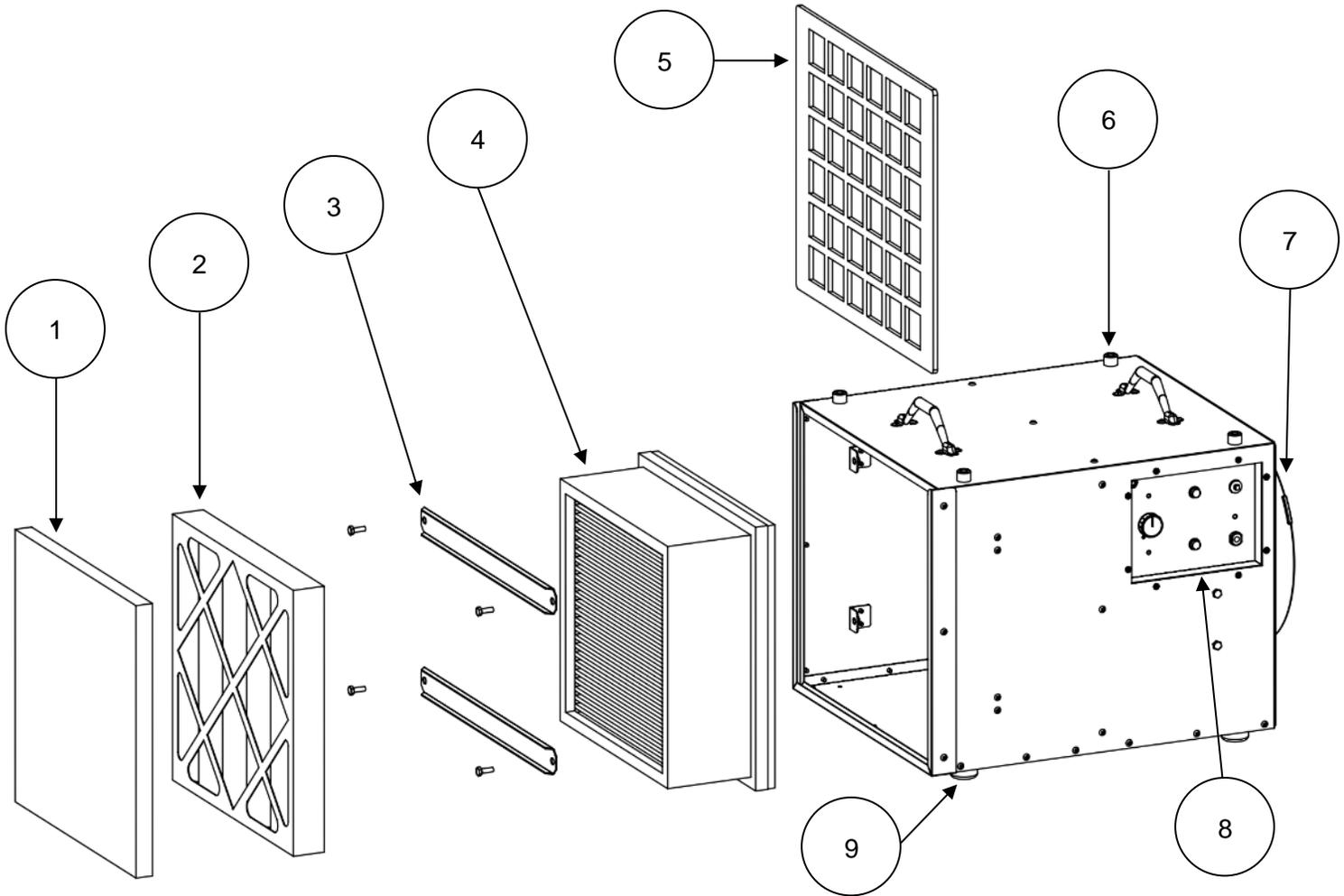
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HA700 and HA700A Portable Air Filtration Units



1. First stage filter: 1" Coarse/Particulate Pre-filter (P/N: F621).
2. Second stage filter:
 - 2" Pleated Particulate Pre-filter (P/N: H502).
 - Alternative 2" High Capacity Carbon Filter (P/N: VL1002).
3. HEPA Filter Retaining Brackets.
4. Final Stage: 6" Deep 99.97% HEPA Filter (P/N: H161606-99).
5. Filter Access Panel.
6. Plastic Guides for stacking.
7. 12" Exhaust Outlet.
8. Control Panel.
9. Rubber Feet.

Portable Air Filtration Units
Models: HA700 AND HA700A
Instruction Manual

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READ AND SAVE THESE INSTRUCTIONS!

Note:

1. **Read and understand all operating instructions before using the HA700 and HA700A Portable Air Filtration Units.**
2. **Save this manual for future reference.**

This instruction manual provides important information on the use of the HA700 and HA700A portable air filtration units. These instructions must be carefully followed in order to operate the unit safely and correctly. If there are any questions regarding the use or care of the unit, please contact Abatement Technologies immediately at +1 800-634-9091 (U.S.) or +1 905-871-4720 (Canada).

Abatement Technologies strongly recommends users of the room air filtration units and accessories to follow the most recent guidelines and/or standards published by the: Occupational Safety and Health Administration, Centers for Disease Control and Prevention, Environmental Protection Agency, American Society of Heating, Refrigerating and Air Conditioning Engineers, and all other federal, state, provincial and local regulations.

Note: The U.S. Environmental Protection Agency's publication "Guidance for Controlling Asbestos Containing Materials in Buildings", EPA 560/5-85-024, includes helpful information on air filtration systems. Abatement Technologies strongly urges anyone performing asbestos abatement to read the most recent edition of this EPA publication before using any air filtration system.

GENERAL INFORMATION

The HA700 and HA700A are multiuse air filtration machines, equipped with two pre-filters and a HEPA filter that are capable of filtering many airborne contaminants. An alternative carbon pre-filter for capturing low concentrations of odors, vapors, gases, and volatile organic compounds, collectively known as OVG, is also available.

Types of contaminants captured by particulate pre-filters, HEPA filter, or carbon filters:

- Dirt
- Dust
- Drywall dust
- Saw dust
- Lung-damaging particles
- Metal fumes
- Smoke
- Mold 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 HA700 and HA700A are capable of providing particulate and odor, vapor, gas filtration with final stage filtration through a High Efficiency Particulate Air (HEPA) filter. The units incorporate a series of particulate filters which successively remove larger size to smaller size particles from the air. In addition to providing HEPA filtration, the HA700 and HA700A are 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 HA700 and HA700A come equipped with three progressively efficient particulate filters. The first two stage filters are mounted in the pre-filter channel and the final stage HEPA filter is located inside the cabinet:

- First stage, 1" deep, coarse particulate pre-filter (P/N: F621) is designed to capture particles 100 microns or larger.

- Second stage. 2" deep, particulate pleated pre-filter (P/N: H502) is designed to capture particles 10 microns or larger.
- Final stage. HEPA filter (P/N: H161606-99) is tested & certified to capture at least 99.97% (9,997 out of 10,000) 0.3-micron particles.

Note: The particulate filters included in the HA700 and HA700A do **not** remove odors, vapors or gases, including volatile organic compounds.

ALTERNATIVE FILTER (MUST BE PURCHASED SEPARATELY)

VAPOR-LOCK® pleated, high-capacity, carbon filters (P/N: VL1002) are available for capturing OVG. These 2"-deep filters can be used as an alternative second stage pre-filter to reduce airborne OVG by chemically bonding the OVG molecules to the surface area of the carbon granules via a process known as adsorption. The VL1002 filters also provides a similar level of particulate filtration efficiency to the H502 pre-filters.

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 at lower speed settings to increase dwell time can therefore improve OVG adsorption, though it is highly unlikely that all of the OVG will be removed in one pass of air through the unit. 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.

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 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: $\text{Quantity} = (V \times \text{Design ACH}) / (\text{AFD Rating} \times 60)$
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 40 ft L x 24 ft W x 10 ft 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 = $(9,600 \text{ ft}^3 \times 8 \text{ ACH}) / (600 \text{ CFM} \times 60) = 76,800/36,000 = 2.13 = 3 \text{ units}$

HA700 AND HA700A TRANSPORT

Note: The HA700 and HA700A should be transported in the horizontal position (resting on its rubber feet). 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 HA700 and HA700A inside a building or home. The unit weighs

45 pounds. Older structures with weakened floors or staircases may require special considerations for safe transport.

ELECTRICAL REQUIREMENTS

1. The HA700 and HA700A unit requires a minimum of 110 volts AC, 60 Hz to operate properly; however, maximum airflow performance requires 120 volts AC, 60 Hz.
2. Due to momentary start-up current surge, the unit requires a 15 amp circuit that is free of other loads.
3. Extension cords used for the HA700 and HA700A must be UL-listed, heavy duty No. 14/3 AWG SJTW industrial grade 3-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 50 feet in length. Make certain that any extension cords used do not reduce power to the unit to less than 110 volts. Use of a voltmeter to confirm adequate voltage is recommended.
4. Check to ensure that any circuit to which the unit is connected is protected by a 15 ampere circuit breaker. The unit itself is equipped with a 12 amp circuit breaker.
5. The HA700 and HA700A should be connected to a three-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 HA700 and HA700A units 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.
6. To avoid personal injury, fire hazards and/or damage to the HA700 and HA700A electrical system and power cord, do not connect or disconnect the power cord to an electrical outlet unless the motorized impeller 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 HA700 and HA700A units 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.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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: 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 filter and before cleaning or servicing the unit.

Warning: To reduce the risk of fire, electric shock, or injury to person observe the following: Use this unit only in the manner intended by Abatement Technologies. If you have questions, contact Abatement Technologies at +1 800-634-9091 (U.S.) or +1 905-871-4720 (Canada).

Warning: This unit is equipped with an automatic restart motorized impeller that will restart without warning after a temporary power interruption or recovery from a thermal overload (over-heating) condition. Keep clear of the motorized impeller at all times to reduce the risk of injury.

Warning: To reduce risk of fire or electrical shock, do not use the HA700 and HA700A with any solid-state speed control device. Do not use in a cooking area.

Warning: Do not position the unit so that it is difficult to operate the disconnecting device. The disconnecting device is the power cord plug.

Caution: The HA700 and HA700A are designed for indoor use only.

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

Warning: The HA700 and HA700A 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 website http://en.wikipedia.org/wiki/Electrical_equipment_in_hazardous_areas.

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

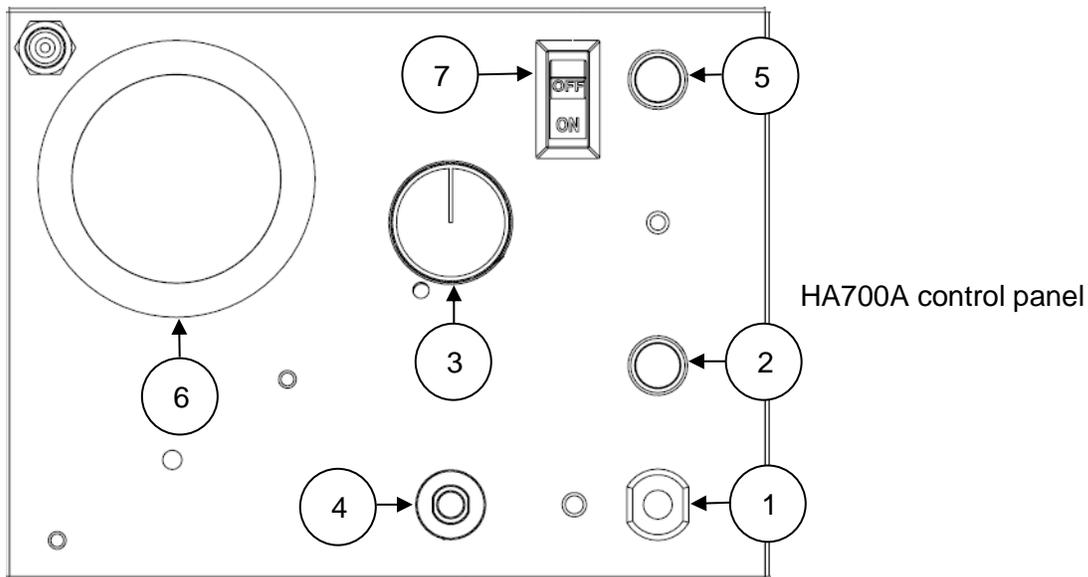
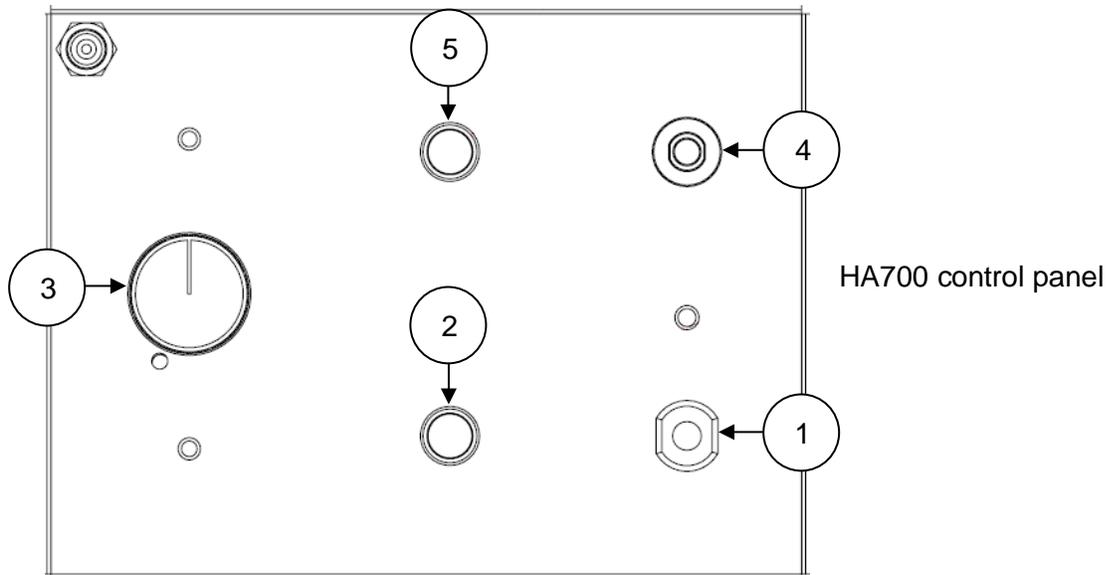
BEFORE OPERATING THE UNIT

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.

CONTROL PANEL COMPONENTS



1. **Power Cord** - Hardwired, 10 ft 18/3 AWG SJTW power cord for connection to electrical outlet.
2. **Power Indicator**– Green light that indicates speed control switch is “ON” and system is connected to power source.
3. **Speed Control Switch** - Serves as the power switch and provides a variable adjustment to the speed of the motorized impeller.
4. **Circuit Breaker** – 12 amp circuit breaker that provides protection for the unit’s electrical components.
5. **Filter Change Indicator** – Amber light that indicates excessive restriction on intake or loading of the pre-filter(s) and that filter change procedures should be followed. Check the Filter Change Indicator when the unit is operating at “HIGH” speed.
6. **Filter Change Gauge** (HA700A only) – 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.
7. **Audio Alarm Switch** (HA700A only) – Rocker-arm style switch that turns the Filter Change Audio Alarm “ON” and “OFF”.

Not Shown - Filter Change Audio Alarm (HA700A only). Tone that indicates excessive restriction on intake or loading of the filter(s) and that filter change procedures should be followed.

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 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-filter and HEPA filter are installed and the filter access panel is in place.

TO START UNIT

1. Check to make sure that the Speed Control Switch is in the "OFF" position. Plug power cord into a 120 volt AC, 60 Hz, 15 amp supply circuit.
2. Turn Speed Control switch clockwise past the click at the "HIGH" setting to turn power "ON".
3. Set Speed Control switch to desired setting.

Refer to the chart in this instruction manual entitled "AIRFLOW RATINGS" that lists the airflows for the HA700 and HA700A.

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 restart when power is restored.

FILTER CHANGE INDICATOR

The Filter Change Indicator light illuminating (all models), a differential pressure reading of 1.6" WC or greater on the Differential Pressure Gauge (HA700A only), and/or the Audible Alarm tone sounding (HA700A only) indicate one or more of the following:

1. Loaded filter(s). Refer to Filter Change Procedure.
2. Restrictions on air intake. Refer to Troubleshooting Guide.

Note: The Filter Change Audio Alarm can be deactivated by turning the Audio Alarm Activation Switch "OFF".

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. Abatement Technologies cannot recommend the type of PPE required as that will need to be determined by safety/risk assessment personnel based on various risk factors, including the type of particulates being captured by the air filtration device and the surrounding environment where the units are being used, transported, or serviced.

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.

The size and concentration of airborne contaminants, temperature and humidity conditions, and duration of use determine how often filters need replacement. If the Filter Change Indicator illuminates, the differential pressure gauge on the control panel reads 1.6" WC or greater (HA700A only), and/or the Audible Alarm sounds (HA700A only), 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, is too long or has too many bends, and/or (4) the HEPA filter is loaded.

If using an activated carbon filter, the method of determining when to replace the alternative 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: The HA700 and HA700A Portable Air Filtration 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 HA700 and HA700A "OFF" and disconnect the power cord from supply receptacle before replacing the HEPA filter and before cleaning or servicing the unit.

FILTER CHANGE PROCEDURE

The Filter Change Indicator light located on the control panel will indicate when one or more of the filters need to be changed. This is based on a factory setting and the filters can be changed earlier, if desired, to maintain a minimum air flow requirement. Since the Filter Change Indicator Light is based on the pressure drop across all of the filters, it cannot indicate specifically which filter needs to be changed. Therefore, when the Filter Change Indicator Light illuminates, the first stage filter should be changed first to see if the light turns off. If the light remains, then the second stage filter should be changed. If the light remains, then the HEPA filter should be changed.

To Change the First Stage and Second Stage Filter(s):

1. With the unit operating, remove the plastic door, replace the first or second stage filter with a new one, then replace the door.
2. If the Filter Change Indicator light remains "ON", the Filter Change Audio Alarm sounds, and/or the differential pressure gauge reads 1.6" WC or greater after changing the first stage filter, the second stage filter should be replaced.
3. If the Filter Change Indicator light remains "ON", the Filter Change Audio Alarm sounds, and/or the differential pressure gauge reads 1.6" WC or greater after changing the second stage filter the HEPA filter should be replaced.

Note: If an alternative VAPOR-LOCK® filter is being used, be sure to remove it from its poly bag before installing it in the unit. Carbon filters are packaged in poly bags to preserve the integrity of the carbon granules.

To Change the HEPA Filter:

1. Turn the unit "OFF" and disconnect the power cord from the electrical outlet.
2. Remove the door and the pre-filters from the pre-filter channel.
3. Remove the 2 nuts which secure each of the HEPA filter retaining brackets in place. Remove the HEPA filter and dispose of it.
4. Install a new HEPA filter and make sure that the filter's foam seal is facing the exhaust side (rear) of the unit. The filter should rest flush against its mounting surface. The HEPA filter is delicate and should be handled with care.
5. Place the HEPA filter retaining brackets over the retaining bolts and secure them in place with the nuts. Do not overtighten the nuts.
6. Reposition the unit so that it is resting on its rubber feet. Reinsert the pre-filters and re-seat the plastic

door.

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

HA700 AND HA700A SPECIFICATIONS

FEATURE	HA700 and HA700A
Net weight w/ filters:	45 lbs.
Shipping weight:	54 lbs.
Dimensions:	24" L x 18" W x 17.25" H.
Power supply requirements:	120 volts AC, 60Hz, 15 amp circuit.
Normal operating amps:	2 amps.
Motor:	225 watt, motorized impeller with thermal overload protection, auto re-set, 60 HZ, single phase.
Operating flow rate* (with clean filters):	Variable, 400 – 700 CFM
Operational sound level:	63 dBA on high speed. Reading taken at a distance of 5'.
Cabinet material:	20 gauge galvanized steel, assembled with rivets. Critical seams are gasketed.
Transportability:	Carrying handles on top of unit.
Stackability:	The 4 plastic guides on top panel and 4 rubber feet on bottom panel enable up to 3 units to be stacked.
First stage pre-filter:	1" deep coarse particulate pre-filter (P/N: F621).
Second stage pre-filter:	2" deep pleated particulate pre-filter (P/N: H502).
Alternative second stage pre-filter:	2" deep high capacity carbon filter for odors (P/N: VL1002).
HEPA filter:	HEPA mini-pleat filter with continuous seamless gasket, tested and certified to an efficiency of 99.97% or higher against 0.3 micron size particles (P/N: H161606-99).
Air outlet collar:	12" diameter.

Note: Specifications subject to change without notice.

*Airflow ratings estimates are based on factory testing @ 120 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 IS TURNED "ON".	POWER CORD UNPLUGGED.	PLUG POWER CORD FIRMLY INTO ELECTRICAL OUTLET IN WALL.
	DEFECTIVE POWER CORD.	CHECK ALL CONNECTIONS AND CONDITION OF ALL CORDS. DO NOT OPERATE WITH DAMAGED POWER CORD(S).
	TRIPPED CIRCUIT BREAKER.	RESET BREAKER FOR BUILDING. RESET 12 AMP BREAKER ON UNIT.
	TRIPPED GROUND FAULT CIRCUIT INTERRUPTER.	RESET GFCI AT POWER SOURCE.
	THERMAL OVERLOAD ON THE MOTOR HAS TRIPPED.	TURN UNIT "OFF", WAIT 30 MINUTES and RESTART UNIT.
CIRCUIT BREAKER FOR BUILDING "TRIPS".	OVERLOADED CIRCUIT.	REMOVE OTHER LOADS FROM CIRCUIT. RESET CIRCUIT BREAKER.
FILTER CHANGE INDICATOR "ON".	LOADED FILTERS.	CHANGE IN ACCORDANCE WITH OPERATING INSTRUCTIONS.
	EXCESSIVE RESTRICTIONS.	REDUCE BENDS, LENGTH OF FLEX DUCT OR ELIMINATE RESTRICTIONS.
	CARBON FILTER HAS NOT BEEN REMOVED FROM POLYBAG.	REMOVE CARBON FILTER FROM POLYBAG.

Note: If unit does not start or malfunctions after carefully following the Troubleshooting Guide, call Abatement Technologies' service department at +1 800-634-9091 (U.S.) or +1 905-871-4720 (Canada) for assistance.

COMPONENT REPLACEMENT AND CARE OF THE UNIT

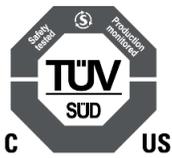
Warning: To reduce the risk of fire, electrical shock or personal injury, always turn the unit "OFF" and disconnect power cord from supply receptacle before removing the control panel, replacing the HEPA filter and before cleaning or servicing the unit. The HA700 and HA700A is equipped with an automatic restart motorized impeller that will restart without warning after a temporary power interruption or recovery from a thermal overload (overheating) condition. Keep clear of the motorized impeller 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 Diagram and Wiring Schematic 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.

CERTIFICATION OF ROOM AIR FILTRATION UNITS



The HA700 and HA700A air filtration units are independently tested and certified to the relevant safety requirements by TÜV SÜD.

TÜV SÜD is accredited by the U.S. Occupational Safety and Health Administration (OSHA) as a Nationally Recognized Testing Laboratory (NRTL).

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 +1 800-634-9091 (U.S.) or +1 905-871-4720 (Canada).

HEPA CERTIFICATION

Abatement Technologies' HA700 and HA700A 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:

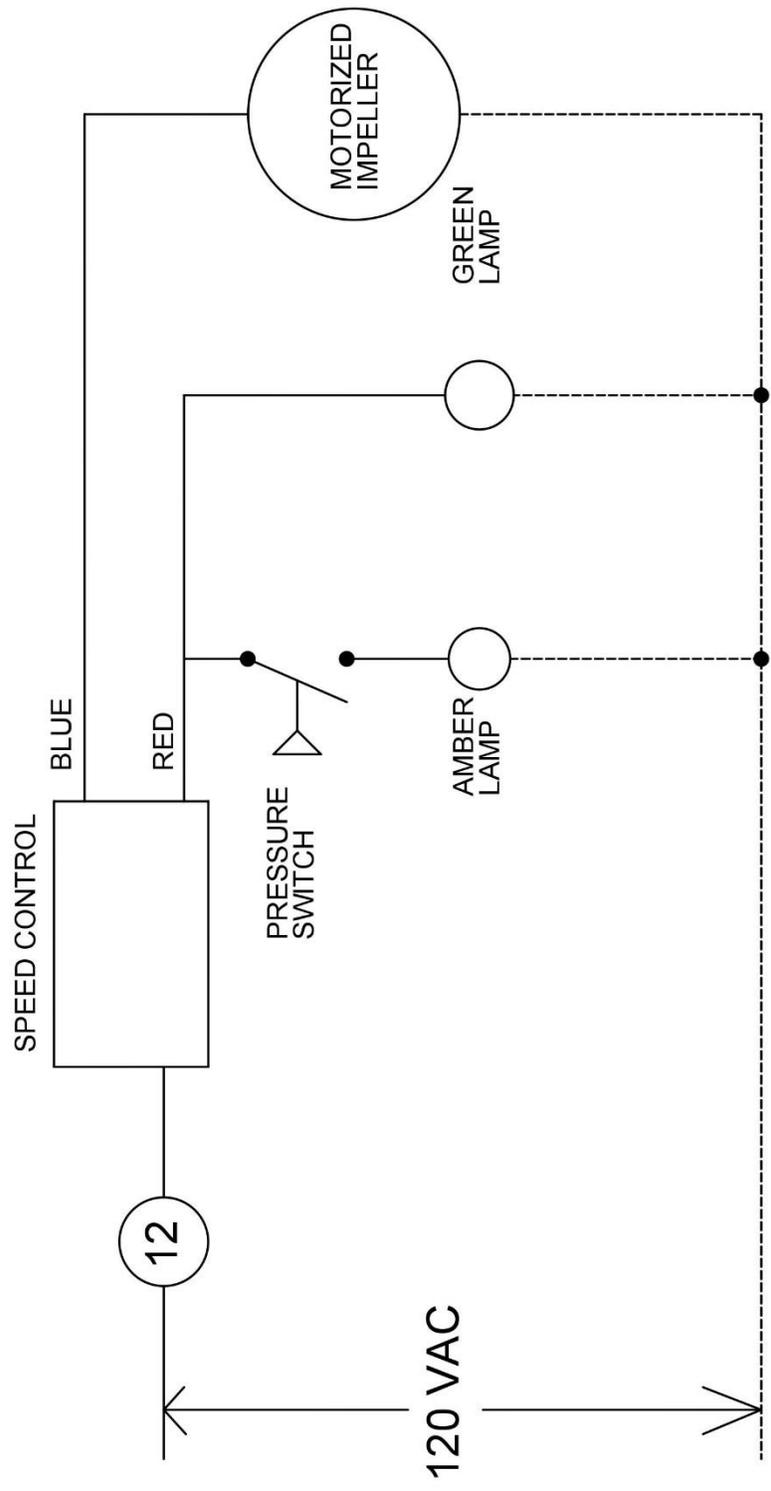
Institute of Environment Sciences and Technology
IEST-RP-CC001 (Type A HEPA and ULPA Filters)
IEST-RP-CC021 (Testing HEPA and ULPA Filter Media)

Underwriters Laboratories
UL900

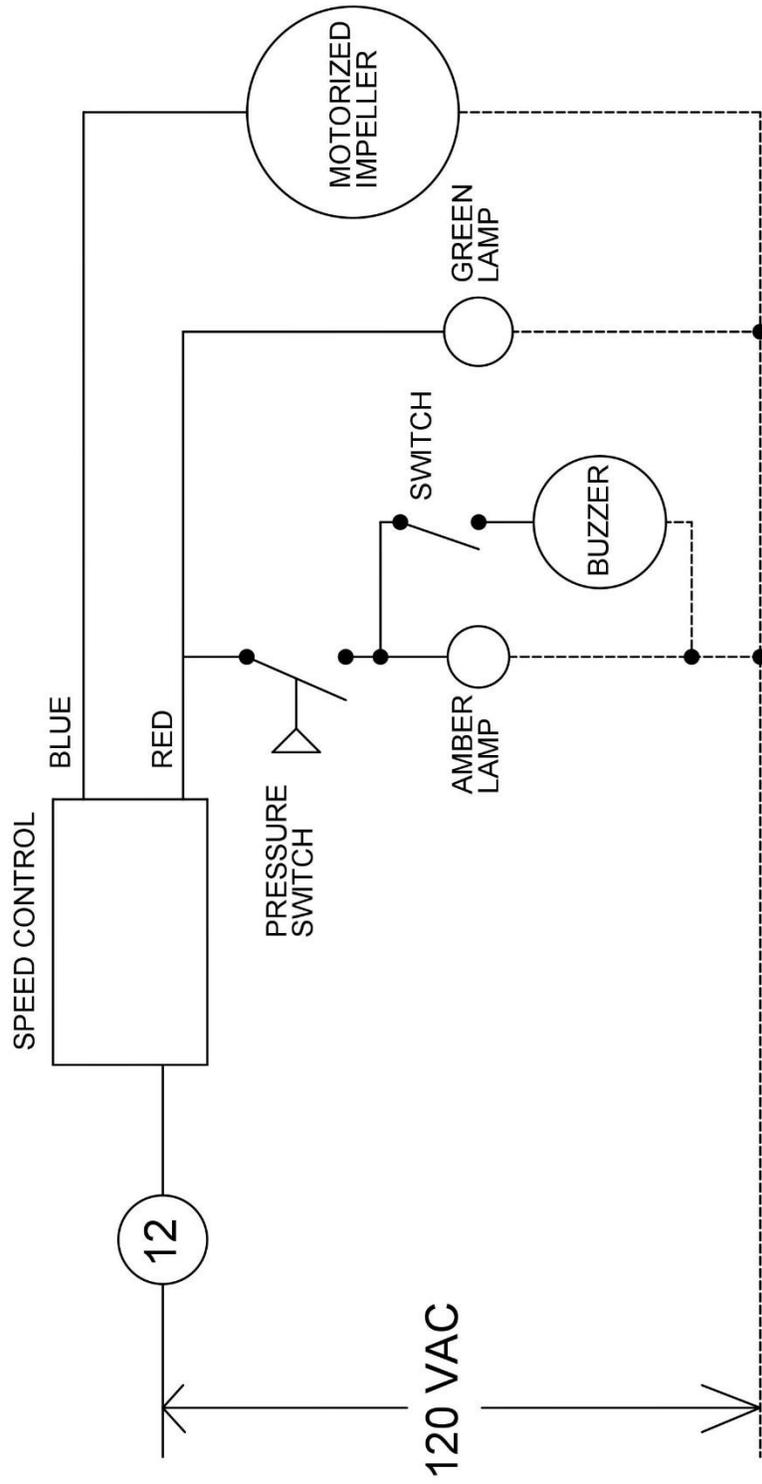
100% Efficiency Tested

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-CC007.

HA700 WIRING SCHEMATIC



HA700A WIRING SCHEMATIC

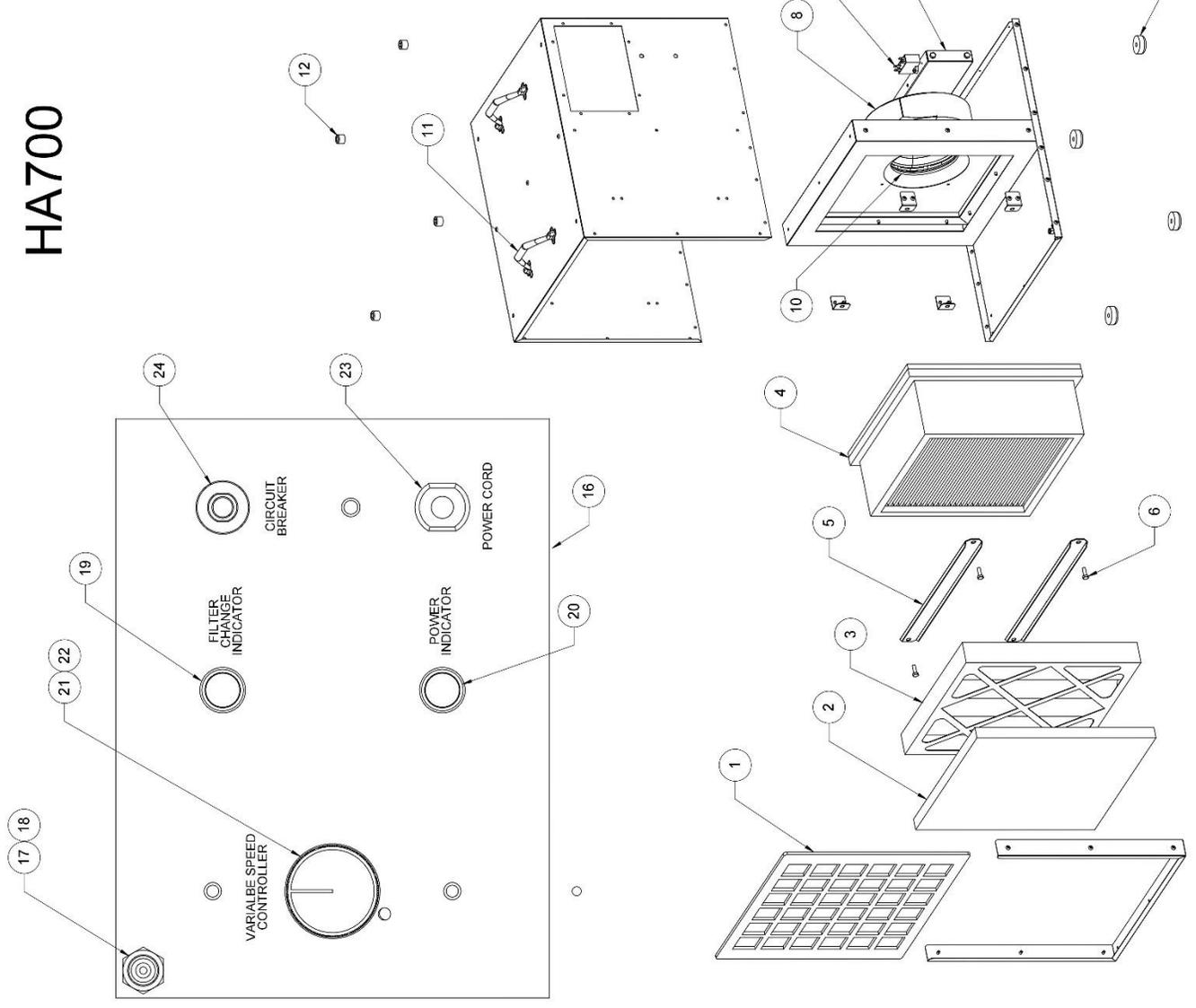


HA700

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1082	DROP DOWN DOOR	1
2	F621	PRE FILTER	1
3	H502	PLEATED FILTER	1
4	H161606-99	HEPA FILTER	1
5	1081	HEPA HOLD DOWN BRACKET	2
6	SCREW27	1/4-20 x3/4" Hex Head Screw	4
7	1077	IMPELLER BRACKET	1ea.
8	BLOWER32	225 MOTORIZED IMPELLER	1
9	ELE164	CAPACITOR	1
10	VENTURI14	225 VENTURI	1
11	IS32115	HANDLE	2
12	HARDWARE98	SMALL RUBBER BUMPER	4
13	HARDWARE73	LARGE RUBBER BUMPER	4
14	1088	BACK PANEL	1
15	2000	OUTLET RING	1
16	CTRLPNL136	CONTROL PANEL ASSEMBLY	1
17	HARDWARE20	1/8" PLASTIC HOSE BARB	1
18	NUT19	NYLON NUT	1
19	LAMP02	FLAT AMBER LAMP	1
20	LAMP03	FLAT GREEN LAMP	1
21	H5015	MOTOR SPEED CONTOLLER	1
22	H5016	INTRUMENT KNOB	1
23	ELE02	STRAIN RELIEF	1
24	ELE152	12 AMP CIRCUIT BREAKER	1

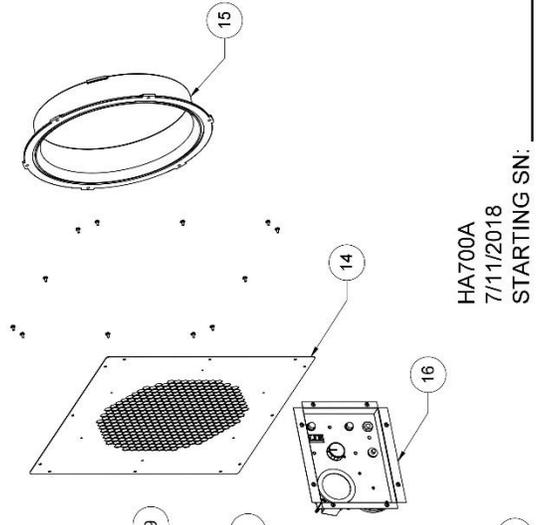
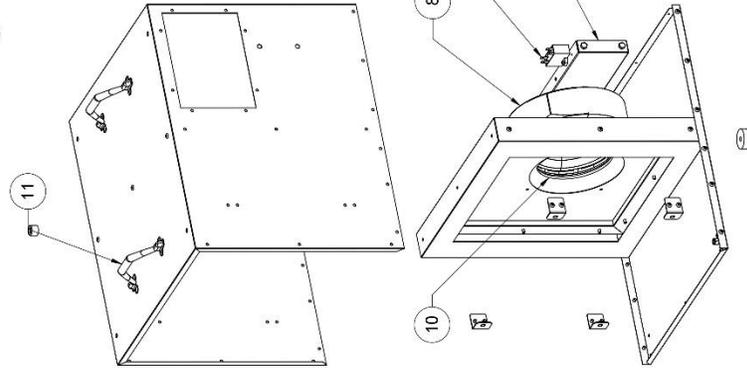
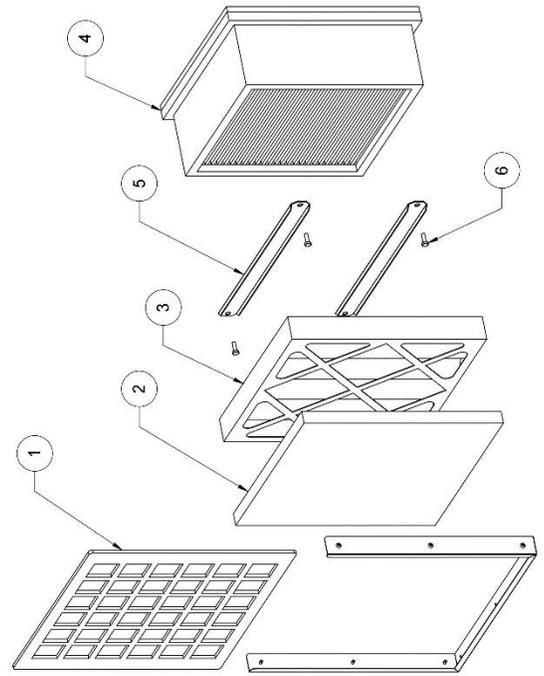
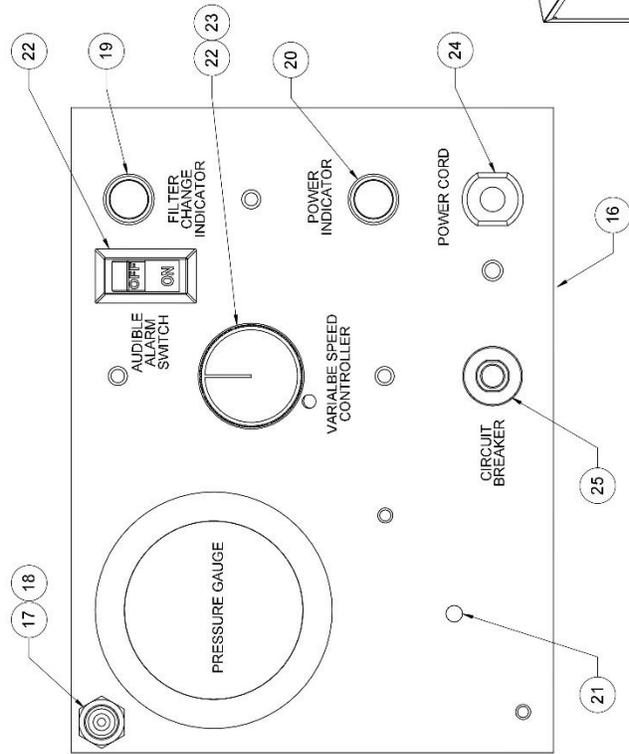
NOTE SHOWN IN EXPLODED VIEW

WIRE12	CORD 18/3	1
VM21174-1.4	PRESSURE SWITCH	1



HA700
7/11/2018
STARTING SN: _____

HA700A



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17	HARDWARE20	1/8" PLASTIC HOSE BARB	1
18	NUT19	NYLON NUT	1
19	LAMP02	FLAT AMBER LAMP	1
20	LAMP03	FLAT GREEN LAMP	1
21	SWTCH40	PRESSURE SWITCH	1
22	H5015	MOTOR SPEED CONTROLLER	1
23	H5016	INTRUMENT KNOB	1
24	ELE02	STRAIN RELIEF	1
25	ELE152	12 AMP CIRCUIT BREAKER	1

NOTE SHOWN IN EXPLODED VIEW

WIRE12	CORD 18/3	1
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HA700A
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