

Replacement Parts

Replacement Filter Parts	Model IS5000 Part #	QTY/UNIT	Model IS5000 VOC Part #	QTY/UNIT
HEPA Filter Cartridge (Primary Stage 2 Filter only)	FP:H-16ET	3		0
Plus Filter Kit (1 Foam Pre-Filter, 1 O-ring, 1 Carbon VOC Canister)	FP:AK-16ET-PLUS	3	FP:AK-16ET-PLUS	3 optional
Ultra VOC Filter Kit (1 Foam Pre-Filter, 1 O-ring, 1 Ultra Carbon Canister)		0	FP:AK-16U-C	3
Metal Mesh Pre-Filter	FP:PF-MTL 12.5	2	FP:PF-MTL 12.5	2

System Parts

Motor Fan Assembly	FP:PT-MTR F-120	1	FP:PT-MTR F-120	1
Thermal Overload	FP:PT-TRML OVLD	1	FP:PT-TRML OVLD	1
Variable Speed Control Switch	FP:PT-VSS	1	FP:PT-VSS	1
Detachable Power Cord - 8' IEC	FP:PT-PC IEC8-120	1	FP:PT-PC IEC8-120	1
Capacitor (20 uF)	FP:PT-CAP20	2	FP:PT-CAP20	2

RECORD YOUR SERIAL# HERE:

Questions? Comments?
Contact Amaircare at
1.800.268.7732
@ info@amaircare.com
www.amaircare.com

AMAIRCARE LIMITED WARRANTY

Americair Corporation warrants Amaircare HEPA Air Filtration Systems to the original retail purchaser as follows:

1. The motor/fan part is warranted for five (5) years from the date of purchase under the following conditions:

2. All other component parts (except filters) are warranted for one (1) year from the date of purchase under the following conditions:
- i. The Amaircare HEPA Air Filtration System has failed under normal use, due to defects in material or workmanship.

ii. The Amaircare HEPA Air Filtration System has been operated according to the manufacturers recommendations.

iii. The Amaircare HEPA Air Filtration System has been operated in compliance with the voltages specified on the product.

iv. An authorized Amaircare dealer or a service provider agreed upon by both the consumer and the manufacturer has performed an inspection.

v. There have been no attempts to modify the Amaircare HEPA Air Filtration System from its original condition.

Actions contrary to the above will void the Amaircare warranty.

Amaircare HEPA Air Filtration Systems that have qualified for warranty and met all of the above conditions will, at the discretion of the manufacturer, have the failing components repaired or replaced or, at the option of the manufacturer, be replaced with a new system.

MAKING A WARRANTY CLAIM

A warranty claim may be made by contacting any authorized Amaircare dealer to obtain a Repair Return Authorization.

If an authorized dealer is not available, contact the manufacturer, Americair Corporation, directly at 1 800 268 7732 or info@amaircare.com to obtain a Repair Return Authorization.

To obtain a Repair Return Authorization, a valid serial number and original proof of purchase must be presented to the manufacturer.

RETURNING THE SYSTEM FOR WARRANTY INSPECTION AND/OR REPAIR

Prior to returning any product for warranty consideration all filter components must be removed from the system.

In the interest of consumer and employee safety, Americair Corporation will not receive any filter media. Any Systems returned for inspection with the filters included **WILL NOT BE RECEIVED** by Americair Corporation and will be returned to the consumer/dealer at the consumer/dealer's expense.

Excluding the filters, the consumer is required to return all other original system components, including adaptors if applicable.

Americair Corporation will not accept returned products on the basis of buyer's remorse.



AIR CLEANERS/
FILTERS

IS5000 CHEMBIO
AIR FILTRATION SYSTEM

OPERATION and MAINTAINENCE MANUAL
FOR MODEL IS5000/IS5000VOC/IS5000 CART/IS5000 VOC CART

Rules for Safe Installation and Operation

READ AND SAVE
THESE INSTRUCTIONS!

Please read instructions before using the Air Filtration System. This will help obtain the full benefit of the system selected. It will also help to avoid needless service costs.

1. Read this manual carefully. Failure to follow these rules and instructions could cause a malfunction of the air filter or unsatisfactory service and could void the warranty.

2. Follow a regular service and maintenance schedule to ensure efficient operation.

3. For safety and optimized performance of the Air Filtration System, installation and maintenance should be performed by a trained professional.

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WARNING

Risk of property damage, injury or death.

Installation, adjustments, alterations, service and maintenance must be performed by a qualified technician.

Shipping and Packing List

Air Filtration System includes:

1 - Cabinet or Cabinet/Cart Assembly

1 - Complete Set of 3 Filters

1 - Operation and Maintanence Manual

1 - Warranty Registration Card



WARNING

Electrical Shock Hazard.

Can cause injury or death.

Disconnect all electrical power supplies before servicing.

Do not operate equipment without access panels in place.

IS5000 System Models - Maximum 2500 CFM

Part #: FP:S-IS5000-MTR-120, Model IS5000 is designed to remove fine particulate and VOCs from the air at a fixed location. This model includes a filter combination of Prefilter, HEPA Filter and third-stage Carbon VOC Canister.

Part #: FP:S-IS5000 CRT-YLG-120, Model IS5000 VOC is designed to remove high concentrations of VOCs (chemical gases and odours) from the air at a fixed location. This model includes a filter combination of Prefilter, Ultra Carbon VOC Canister and can also include a third-stage Carbon VOC Canister.

Part #: FP:S-IS5000-MTR U-120, Model IS5000 CART is equipped with castors for convenient portable operation to filter air contaminated with fine particulate and VOCs. Position the cart as closely as possible to the particulate source. This model includes a filter combination of Prefilter, HEPA Filter and third-stage Carbon VOC Canister.

Part #: FP:S-IS5000 CRT-YLG U-120, Model IS5000 VOC CART is equipped with castors for convenient portable operation to filter air contaminated with VOC chemical gases and odours. Position the cart as closely as possible to the VOC source. This model includes a filter combination of Prefilter, Ultra Carbon VOC Canister and can also include a third-stage Carbon VOC Canister option.

Specifications		
	IS5000/CART	IS5000VOC/CART
Nom. Air Flow @ 120VAC @ max. speed	2250 cfm	1800 cfm
Weight	165 lbs.	270 lbs.
Supply Voltage	120 VAC	120 VAC
Nom. Power Consumption	635 Watts	635 Watts
Motor Current Draw	5.3 amps	5.3 amps
Air Intake	2 Collars 10" OD	2 Collars 10" OD
Air Outflow	10" X 14" Screen	10" X 14" Screen
Operating Temp. Max	100°F/40° C	100°F/40° C
Filter Efficiency	True HEPA 99.97% @ 0.3 micron	Varies with contaminant VOC (ask for technical assistance)

Motor Replacement



WARNING

Electrical Shock Hazard.

Can cause injury or death.

Disconnect all electrical power supplies before servicing.

Do not operate equipment without access panels in place.

Do not use this fan with any solid-state speed control device.

- 1. Accessing the wiring and electrical controls**

 - a. Turn the unit off and unplug it from any electrical source before opening the cabinet.
 - b. Remove the screw(s) from the motor section side access panel door.
 - c. Test the individual components to isolate the problem.
 - d. Capacitors and control switch can be accessed through the side panel door.
- 2. Accessing the motor assembly**

 - a. Remove the lid and filters and ensure the filter section is empty before inverting the unit.
 - b. To replace the main motor fan unit, the unit should be inverted to remove the base panel.
 - c. Rest the inverted unit on a solid flat surface and remove the eight (8) bolts securing the cart frame to the housing (if equipped).
 - d. Remove the six (6) screws securing the base panel

- to the side panels.
- e. Remove the base panel from the housing.
- f. Remove the four (4) metric motor screws securing the motor to the motor bracket.
- g. Remove four (4) bolts and nuts securing the motor bracket to the housing.

- 3. Removing the old motor assembly**

 - a. Disconnect all motor wires.
 - b. Disconnect the two white wires from the capacitor.
 - c. Separate the motor from the motor mount bracket by removing the four screws. NOTE: Metric Thread 4 x M6 x 90
 - d. Slide the motor out from under the motor mount to remove it from the unit.

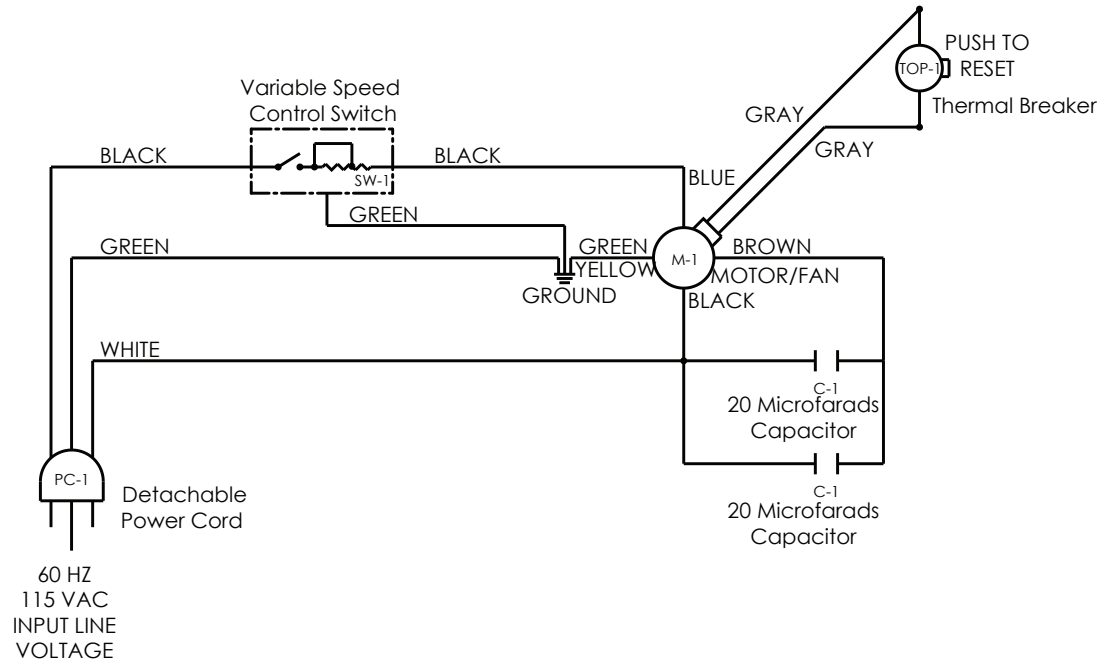
- 4. Installing the new motor assembly**

 - a. Slide the new motor into the motor mount making sure that the wires go through the smaller hole offset from the center of the bracket.
 - b. Secure the new motor to the motor mount with the four screws and retighten bracket mounting fasteners. NOTE: Metric Thread 4 x M6 x 90
 - c. Connect the wires, see Electrical Diagram below.
 - d. Ensure the fan wheel spins freely with no contact.
 - e. Test with power jog off/on.

- 5. Closing the unit**

 - a. Replace the base panel and secure it with the screws removed in step 2d.
 - b. Retighten the cart base if equipped and return assembly to upright position.
 - c. Plug the unit into it's electrical source and turn it on.

Electrical Diagram



Filter Change Instructions



⚠ WARNING

Electrical Shock Hazard.

Can cause injury or death.

Disconnect all electrical power supplies before servicing.

Do no operate equipment without access panels in place.

It is recommended that gloves and a filtered breathing mask be worn during filter replacement to avoid breathing particulates (dust, mold, pollen, etc.) captured on the filter that can become airborne during the filter(s) changeout.

The old filters should be carefully placed and sealed in poly bags immediately upon removal from the unit to avoid distributing contaminants during the process of disposal.

1. Preparation & Inspection

- Unplug the unit.
- Lock all castors (if equipped with locking mechanism).
- To release top access panel, push to open the four latches.
- Lift off filter access panel and set safely aside.
- Inspect used filters.
- Remove replacement filters from packaging and save poly bag packaging for disposal of used filters.

2. Metal Mesh Prefilters

- Remove inlet slide.
- Rinse or blowout to clean metal mesh.
- Replace cleaned or new metal mesh.

3. Pre-filter Replacement - Stage 1

- Pull the pre-filter up and off the HEPA filter or Ultra Carbon VOC Canister.
NOTE: The pre-filter may contain contaminants, remove it slowly and handle carefully to avoid releasing particles back into the air.
- Foam pre-filters can be washed gently by hand in warm water. Let dry completely before placing it back onto the HEPA cartridge.
- When replacing the filter, carefully stretch the new/washed filter around the top of the HEPA cartridge and slide it down into place.

4. O ring Replacement

A new O ring gasket should be installed each time primary filters are replaced.

- The old O ring is removed by pinching it between

two fingers and pulling it off the collar on the filter adaptor.

- Discard old 'o' ring.
- Place the new 'o' ring onto the collar and slide it down to the base of the filter adaptor.

5. Carbon VOC Canister Replacement

Models with HEPA and VOC Filters

- Rotate the filter cartridge counter-clockwise a 1/4 turn to release.
- Use poly bag packaging to cover used filter before carefully removing from cabinet.
- Remove used carbon canister by pulling it out from the inside of the HEPA filter or lifting it from the cabinet. Cover used VOC Filter with a poly bag for disposal.
- Slide the carbon canister into the HEPA cartridge, smaller end first. The carbon canister should slide all the way in until the metal edges at the base meet the HEPA filter.
- Support the carbon canister with your fingers so it does not slide out when replacing the HEPA cartridge assembly into the unit.
- Lock and seal the HEPA filter and VOC Canister in place by rotating the HEPA filter clockwise a 1/4 turn.

Models with Ultra VOC Filters

- Rotate the filter cartridge counter-clockwise a 1/4 turn to release.
- Use poly bag packaging to cover used filter before carefully removing from cabinet.
- Place new O ring and Ultra VOC on filter adaptor and rotate a 1/4 turn clockwise to lock and seal in place.

6. HEPA Filter Replacement

It is recommended that when replacing the HEPA filter a new Prefilter and VOC Canister are also installed.

- Place the HEPA cartridge and VOC Canister gently into the unit
- When the filters are in place, rotate clockwise a 1/4 turn to lock in place.
- Replace the HEPA filter access panel and latch it.
- Plug the unit back into a power outlet and turn it on.

General Information

Media Filters

Media filters strain particulates from the air. The filter media needs to have tiny holes to allow air to pass through, but not particulates. Filter types vary for all sorts of purposes. The most effective and proven filter media for particulate is HEPA. HEPA filter media is 99.97% efficient at capturing particles which are 0.3 micron in size or larger. Insist on True HEPA media available from Amaircare.

*HEPA media is not as efficient for capturing VOCs.

Carbon Filters

Carbon is used to capture chemicals and odors, also referred to as V.O.C.'s. Chemicals and odors cannot be captured with media type filters. Activated carbon collects chemicals and odors in a process called adsorption. The efficiency of VOC removal varies depending on the concentration and chemical composition of the molecule. Carbon filters are very efficient at removing some common VOCs, such as: adhesives, styrene, benzene.

Filter Life

All filters, including HEPA and carbon filters, have different life spans. It is important for a filtration system to be maintained in optimum air cleaning range. As

the contaminant is captured by the filter, the media becomes loaded. A filter cartridge becomes loaded in a very short time if contaminant concentrations are high. Filters in the IS5000 Models are independent from each other to allow individual and economical replacement of the dirty/saturated filter component.

Multi-Stage Filtration Process

A 3-stage filtration process is used to protect and extend the life of each filter, creating a very effective filtration system. Each filter is independent and can be changed individually.

- Stage 1: Pre-filter** - The inexpensive foam pre-filter removes larger particulates from the air, thus prolonging the life of the downstream primary filter.
- Stage 2 PRIMARY FILTER: HEPA** - The HEPA filter removes 99.97% of particulates 0.3 micron and larger. The cleaned air then passes through the third stage filter.

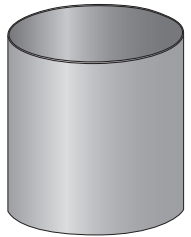
- or -

Ultra Carbon VOC Canister - odours are adsorbed into the carbon filter. Efficiency can range to 80% - 90% for some VOCs.

- Stage 3: Carbon** - This carbon filter is about 1/2 inch thick and filled with heavy duty granular carbon to provide plenty of surface area for chemical and odor removal from the air.

Filter Parts Identification

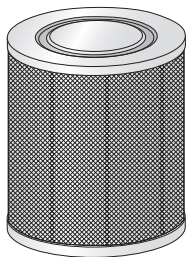
Prefilter - Stage 1



Protective Foam Prefilter fits over Stage 2 Cartridge or Canister

Kit Part #: FP:AK-16ET-PLUS or FP:AK-16U-C

HEPA Cartridge - Stage 2

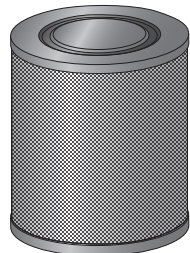


HEPA Filter

HEPA Filter Mesh (Protects HEPA Filter)

Part #: FP:H-16ET

Ultra Carbon VOC Canister - Stage 2



Second stage removal of chemicals and odors.

Kit Part #: FP:AK-16U-C

Carbon VOC Canister - Stage 3



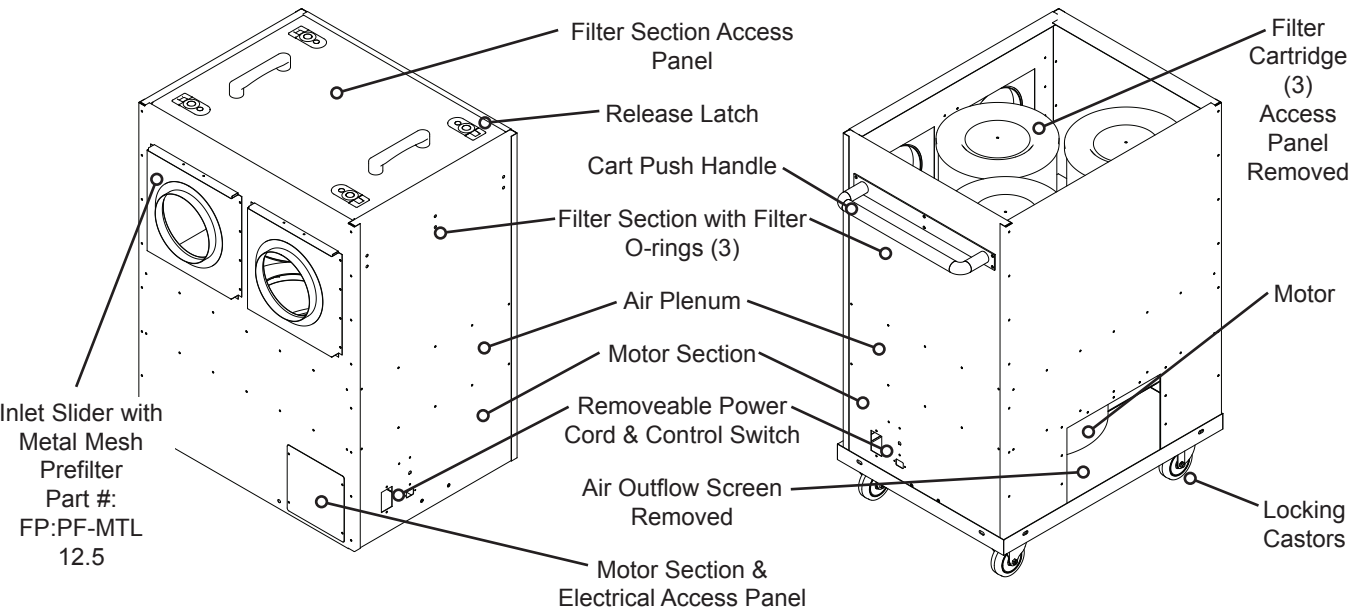
Third stage removal of chemicals and odors. Fits inside the HEPA Cartridge or Ultra VOC Canister.

Kit Part #: FP:AK-16ET-PLUS

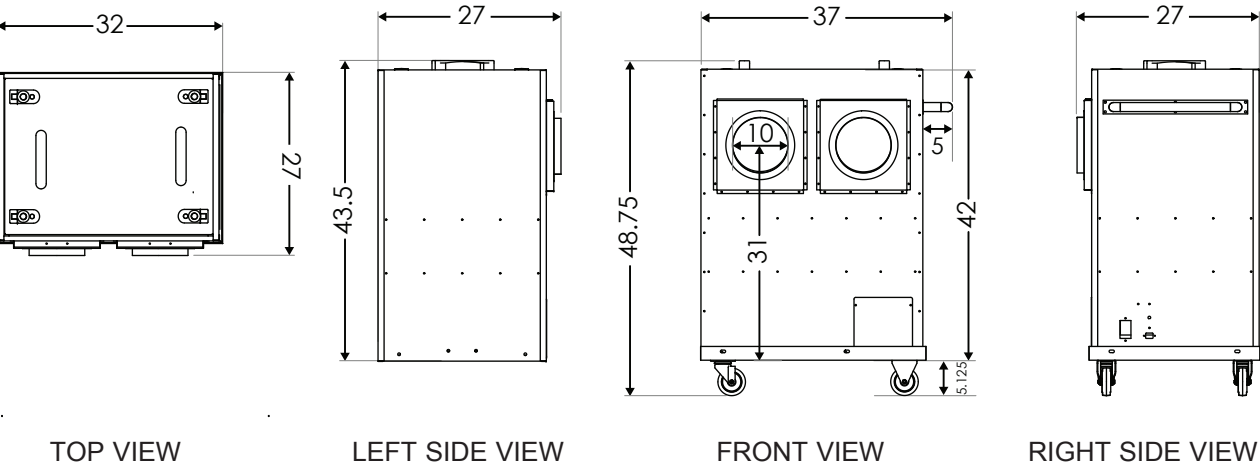
Parts Identification

MODEL IS5000/IS5000 VOC

MODEL IS5000 CART/IS5000 VOC CART



Physical Dimensions of Unit



Dimensions are in inches.

Operation

1. Make sure that the unit is plugged into a grounded electrical recepticle (120 Volt, 60 Hz).
2. Rotate the control knob clockwise to turn the system 'on'.
3. To turn the unit off, rotate the knob fully counter clockwise until it 'clicks' into the off position.

Maintenance

WARNING

Electrical Shock Hazard.
Can cause injury or death.
Disconnect all electrical power supplies before servicing.
Do not operate equipment without access panels in place.

Filter Changing Guidelines

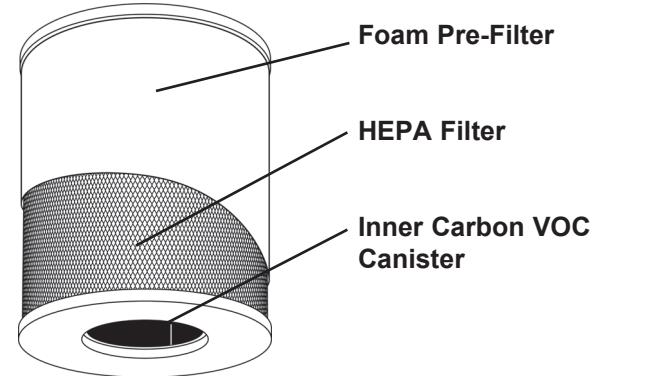
Metal Mesh Pre-Filter and Foam Pre-Filter:
Dust and other large particles will collect on the pre-filter. Replace or clean the pre-filter when the particulate build up is visible or when air flow volume is noticeably reduced.

HEPA Filter:
As the HEPA filter captures particulates, it will darken over time. Replace the HEPA filter when it visably begins to change colour and/or the air flow is reduced.

Proper care and maintenance of your Filter System will ensure years of service. The unit must be turned off during service/maintenance or when filters are being changed.

It is recommended that gloves and a filtered breathing mask be worn during filter replacement.

Filter Change Schedule
Failure to properly maintain your Filter system will decrease the efficiency and air flow.
Filter life is based on the concentration of pollution in the ambient air. Some filters may need to be changed more often due to higher amounts of dust, humidity, or chemicals found in the ambient air. Inspect your filters weekly to monitor required filter replacement for your particular environment.



Ultra Carbon VOC Canister or Third Stage VOC Canister:
Carbon filter performance can be measured using a VOC meter. Most industrial applications; however, are monitored by human sense of smell. The problem odour will normally not be noticeable at the outflow screen from a well maintained filter assembly. Replace on a regular basis that avoids the return of the problem odour.